



*Product Specifications Reference  
Lenovo® ThinkCentre Desktops  
2014 to present - withdrawn*

*May 2014 - Version 454*



Lenovo ThinkCentre M92z AIO

**lenovo.com**

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# Summary of Changes

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This section describes the withdrawn products which are added in this edition and in previous editions.

## May 27, 2014 - Version 454

### ► **Withdrawn product(s)**

ThinkCentre M72z is withdrawn and added in the book

ThinkCentre Edge 72 is withdrawn and added in the book

# ThinkCentre M72e Tiny, Small, Tower



Lenovo ThinkCentre M72e Tiny with Optional Serial Port



Lenovo ThinkCentre M72e Tiny, Small, and Tower with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M72e Small



Lenovo ThinkCentre M72e Tiny with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M72e Tower



Lenovo ThinkCentre M72e Tiny with External Optical Box

# ThinkCentre M72e Tiny (4004) - TopSeller - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical	Graphics	Display-Port dongle	PCIe Mini Card WLAN / BT	Optional floor stand	VESA mount	ENERGY STAR 5.2 Global	Win7 preload (mm/dd/yy)	Ann date (mm/dd/yy)
4004-A1U	i3-2120T	4GBx1	320G 5400	DVD±RW	HD 2000	None	None	None	Mount	ES52	None	Pro 64 06/05/12
4004-A2U	G630T	4GBx1	320G 5400	DVD±RW	Intel HD	None	None	None	Mount	ES52	None	Pro 64 06/05/12
4004-A7U	G630T	2GBx1	320G 5400	None	Intel HD	None	None	None	Mount	ES52	None	Pro 64 06/05/12
4004-A9U	i3-2120T	4GBx1	500G 5400	None	HD 2000	None	None	None	Mount	ES52	None	Pro 64 06/05/12
4004-B2U	i3-2120T	4GBx1	320G 5400	None	HD 2000	None	None	None	Mount	ES52	None	Pro 64 06/05/12
4004-C3U	i3-2120T	4GBx1	500G 7200	DVD±RW	HD 2000	None	Intel 2230 + BT	None	Mount	ES52	None	Pro 64 06/19/12
4004-C4U	i3-2120T	4GBx1	500G 7200	None	HD 2000	None	Intel 2230 + BT	None	Mount	ES52	None	Pro 64 06/19/12
4004-B8U	i3-2120T	4GBx1	500G 7200	None	HD 2000	None	None	None	Mount	ES52	None	Pro 64 07/10/12
4004-B5U	i3-2120T	4GBx1	500G 7200	None	HD 2000	None	None	None	Mount	ES52	None	Pro 32 07/10/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>										
Processor	<b>Intel® Pentium® G630T Processor (2 cores / 2 threads, 2.3GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller <b>Intel Core™ i3-2120T Processor (2 cores / 4 threads, 2.6GHz, 3MB cache),</b> integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller										
Implementation	Processor in LGA1155 socket										
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook), <i>System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller</i>										
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 2000</b> in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution vary by processor (i5 CPU supports max: 2560x2048)</i>										
DP dongle	None										
Disk	SATA 3.0Gb/s, 2.5" Wide										
External optical	<i>Some:</i> Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in										
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset										
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar										
eSATA port	None										
Chipset	<b>Intel H61 Express Chipset</b>										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)										
PCIe Mini Card	One PCI Express® Mini Card slot										
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2										
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec										
Speaker	Internal speaker for business audio										
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®										
Intel AMT	None										
Modem	None										
Security chip	None										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Floor Stand	<i>Some:</i> System floor stand for vertical orientation										
VESA mount	Supports VESA 75mm and 100mm mount standard										
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU										
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 7.1" W X 7.2" D X 1.4" H</li> <li>• 179mm W X 182mm D X 34.5mm H</li> <li>• 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)</li> </ul>										
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										
	<b>Preloaded operating system</b> <i>Some:</i> Genuine Windows® 7 Professional 32 <i>Some:</i> Genuine Windows 7 Professional 64 <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo Simple Tap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> </ul>										
	EPEAT™ Gold rating ENERGY STAR® 5.2-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant										
	Supports ThinkVantage Technologies										
	For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet										

See footnotes for important warranty information  
US models announced June 5, June 19, or July 10, 2012

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# ThinkCentre M72e Tiny (4004) - TopSeller - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	SATA disk GB rpm	External optical	Graphics	Display-Port dongle	PCIe Mini Card WLAN / BT	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2	Global	Win7 preload	Ann date (mm/dd/yy)
4004-A8U	i5-3470T	4GBx1	750G 5400	None	HD 2500	None	None	None	Stand	Mount	ES52	None	Pro 64	06/05/12
4004-B1U	i5-3470T	4GBx1	500G 5400	None	HD 2500	None	None	None	Stand	Mount	ES52	None	Pro 64	06/05/12
4004-B4U	i5-3470T	4GBx2	750G 5400	None	HD 2500	None	None	None	Stand	None	ES52	None	Pro 64	06/05/12
4004-C1U	i5-3470T	4GBx1	500G 7200	None	HD 2500	None	Intel 2230 + BT	None	Stand	Mount	ES52	None	Pro 64	06/19/12
4004-C2U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	Intel 2230 + BT	None	None	Mount	ES52	None	Pro 64	06/19/12
4004-B7U	i5-3470T	2GBx1	320G 7200	None	HD 2500	None	None	None	Stand	Mount	ES52	None	Pro 64	07/10/12
4004-B6U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	None	None	None	Mount	ES52	None	Pro 64	07/10/12
4004-E7U	i3-3220T	4GBx1	500G 5400	None	HD 2500	None	None	None	Stand	Mount	ES52	None	Pro 64	09/04/12
4004-E8U	i3-3220T	4GBx1	500G 5400	DVD±RW	HD 2500	None	Intel 2230 + BT	None	None	Mount	ES52	None	Pro 64	09/04/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>		<b>Preloaded operating system</b>
Processor	<b>Intel® Core™ i3-3220T Processor (2 cores / 4 threads, 2.8GHz, 3MB cache)</b> , integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache)</b> , Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket		Genuine Windows® 7 Professional 64 <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>
Implementation	Processor in LGA1155 socket		<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> </ul>
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)		
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution vary by processor (i5 CPU supports max: 2560x2048)</i>		
DP dongle	None		
Disk	SATA 3.0Gb/s, 2.5" Wide		
External optical	<i>Some:</i> Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset		
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar		
eSATA port	None		
Chipset	<b>Intel H61 Express Chipset</b>		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)		
PCIe Mini Card	One PCI Express® Mini Card slot		
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2		
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
Speaker	Internal speaker for business audio		
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®		
Intel AMT	None		
Modem	None		
Security chip	None		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo		
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo		
Floor Stand	<i>Some:</i> System floor stand for vertical orientation		
VESA mount	<i>Some:</i> Supports VESA 75mm and 100mm mount standard		
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU		
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 7.1" W X 7.2" D X 1.4" H</li> <li>• 179mm W X 182mm D X 34.5mm H</li> <li>• 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)</li> </ul>		
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available		<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> </ul> EPEAT™ Gold rating ENERGY STAR® 5.2-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
 US models announced June 5, June 19, July 10, or September 4, 2012

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 (MOSI1-2) September 2012

# ThinkCentre M72e Tiny (4004) - TopSeller (Thin Client) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical	Graphics	Display-Port dongle	PCIe Mini Card WLAN / BT	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2	Global	Win7 preload	Ann date (mm/dd/yy)
4004-D1U	G460	2GBx1	8G SSD	None	Intel HD	None	None	None	Stand	Mount	ES52	None	Emb 32	07/10/12
4004-E9U	G640T	2GBx1	8G SSD	None	Intel HD	None	None	None	Stand	Mount	ES52	None	Emb 32	08/14/12
4004-K4U	i5-3470T	2GBx1	8G SSD	None	HD 2500	None	Intel 105	None	Stand	None	ES52	None	Emb 32	03/05/13
4004-K3U	G640T	2GBx1	8G SSD	None	Intel HD	None	Intel 105	None	Stand	None	ES52	None	Emb 32	03/05/13
4004-LJU	G470	2GBx1	8G SSD	None	Intel HD	None	None	None	Stand	None	ES52	None	Emb 32	06/11/13
4004-LKU	G1610T	2GBx1	8G SSD	None	Intel HD	None	None	None	None	Mount	ES52	None	Emb 32	06/11/13
4004-LGU	G2020T	2GBx1	8G SSD	None	Intel HD	None	None	None	None	Mount	ES52	None	Emb 32	06/11/13
4004-LHU	G2020T	2GBx1	8G SSD	None	Intel HD	None	Intel 2230 + BT	None	None	Mount	ES52	None	Emb 32	06/11/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>	<b>Preloaded operating system</b> Genuine Windows® 7 Embedded 32  <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Adobe Reader®</li> <li>• Adobe Flash® Player</li> <li>• Citrix® Receiver</li> <li>• IIS Web Server</li> <li>• Microsoft® Management Console</li> <li>• Microsoft Silverlight</li> <li>• Remote Desktop Protocol</li> <li>• ThinPrint .print Client</li> <li>• TightVNC Viewer</li> <li>• VMware® View Client</li> <li>• vWorkspace</li> <li>• Windows Media Player</li> </ul>
Processor	<b>Intel® Celeron® G460 Processor (1 core / 2 threads, 1.8GHz, 1.5MB cache)</b> , integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller <b>Intel Celeron G470 Processor (1 core / 2 threads, 2.0GHz, 1.5MB cache)</b> , integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller <b>Intel Celeron G1610T Processor (2 core / 2 threads, 2.3GHz, 2MB cache)</b> , integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller <b>Intel Pentium® G640T Processor (2 cores / 2 threads, 2.4GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller <b>Intel Pentium G2020T Processor (2 cores / 2 threads, 2.5GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller <b>Intel Core i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache)</b> , Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket	
Implementation		
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook), <i>System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller</i>	
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 2500</b> in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz</i>	
DP dongle	None	
Disk	Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide	
External optical	None	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset	
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar	
eSATA port	None	
Chipset	<b>Intel H61 Express Chipset</b>	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	
Intel AMT	None	
Modem	None	
Security chip	None	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Floor Stand	<i>Some:</i> System floor stand for vertical orientation	
VESA mount	<i>Some:</i> Supports VESA 75mm and 100mm mount standard	
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU	
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 7.1" W X 7.2" D X 1.4" H</li> <li>• 179mm W X 182mm D X 34.5mm H</li> <li>• 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)</li> </ul>	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	
		<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> </ul> EPEAT™ Gold rating ENERGY STAR® 5.2-compliant GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US models announced July 10, 2012, August 14, 2012, March 5, 2013, or June 11, 2013

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(MOSI1-22) June 2013



# ThinkCentre M72e Tiny (4004) - TopSeller (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	SATA disk GB rpm	External optical	Graphics	Display-Port dongle	PCIe Mini Card WLAN / BT	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
4004-C6U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	Intel 2230 + BT	None	None	Mount	ES52	None	Win8 Pro64	10/23/12
4004-C7U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	None	None	None	Mount	ES52	None	Win8 Pro64	10/23/12
4004-C8U	i5-3470T	4GBx1	500G 7200	None	HD 2500	None	None	None	Stand	Mount	ES52	None	Win8 Pro64	10/23/12
4004-F2U	i3-3220T	4GBx1	500G 7200	None	HD 2500	None	None	None	Stand	Mount	ES52	None	Win8 Pro64	10/23/12
4004-F3U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	None	None	None	Mount	ES52	None	Win8 Pro64	10/23/12
4004-G6U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	None	None	None	Mount	ES52	None	Win7 Pro64	10/23/12
4004-G7U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	Intel 105	None	None	Mount	ES52	None	Win7 Pro64	10/23/12
4004-G8U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	Intel 2230 + BT	None	None	Mount	ES52	None	Win7 Pro64	10/23/12
4004-F1U	i3-3220T	4GBx1	500G 7200	None	HD 2500	None	Intel 105	None	None	Mount	ES52	None	Win7 Pro64	10/23/12
4004-H3U	i3-3220T	4GBx1	500G 5400	None	HD 2500	None	Intel 105	None	Stand	None	ES52	None	Win7 Pro64	11/20/12
4004-H4U	i3-3220T	4GBx1	180G SSD	None	HD 2500	None	Intel 105	None	Stand	None	ES52	None	Win7 Pro64	11/20/12
4004-J1U	i3-3220T	4GBx1	500G 7200	None	HD 2500	None	Intel 105	Serial	Stand	None	ES52	None	Win7 Pro64	12/25/12
4004-L2U	i5-3470T	4GBx2	180G SSD	DVD±RW	HD 2500	None	Intel 2230 + BT	None	None	Mount	ES52	None	Win7 Pro64	03/12/13

Positioning	<i>Essential business features, exceptional value</i>											<b>Preloaded operating system</b>		
Processor	<b>Intel® Core™ i3-3220T Processor (2 cores / 4 threads, 2.8GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit		
Implementation	Processor in LGA1155 socket											<b>Preloaded applications (only some listed)</b>		
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<b>- Windows 7 models</b>		
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution vary by processor (i5 CPU supports max: 2560x2048)</i>											<ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage Power Manager</li> <li>● ThinkVantage Communication Utility</li> <li>● Lenovo® Message Center Plus</li> <li>● Lenovo SimpleTap</li> <li>● Adobe® Reader®</li> <li>● Windows Live™ Essentials</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>		
DP dongle	None											<b>- Windows 8 models</b>		
Disk	Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" Wide											<ul style="list-style-type: none"> <li>● Lenovo Support</li> <li>● Lenovo Companion</li> <li>● Lenovo Cloud Storage</li> <li>● Norton™ Studio</li> <li>● AccuWeather</li> <li>● Evernote®</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> </ul>		
External optical	Some: Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in											<b>- All models</b>		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset											<ul style="list-style-type: none"> <li>● ThinkVantage System Update</li> <li>● Lenovo Solution Center</li> <li>● View Management Utility</li> <li>● Norton Internet Security (30 days of virus definitions)</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Skype™</li> </ul>		
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar													
eSATA port	None													
Chipset	<b>Intel H61 Express Chipset</b>													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)													
PCIe Mini Card	One PCI Express® Mini Card slot													
PCIe WLAN	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2													
Bluetooth	Some: Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®													
Intel AMT	None													
Modem	None													
Security chip	None													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											<b>Security</b>		
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											<ul style="list-style-type: none"> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> </ul>		
Floor Stand	Some: System floor stand for vertical orientation													
VESA mount	Some: Supports VESA 75mm and 100mm mount standard													
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU													
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 7.1" W X 7.2" D X 1.4" H</li> <li>● 179mm W X 182mm D X 34.5mm H</li> <li>● 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)</li> </ul>											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant		
												Supports ThinkVantage Technologies		
												For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													

See footnotes for important warranty information

US models announced Oct 23, 2012, Nov 20, 2012, Dec 25, 2012, or Mar 12, 2013

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(MOSI1-33) March 2013

# ThinkCentre M72e Tiny (4004) - TopSeller (Win 8) - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>6</sup>	SATA disk GB rpm	External optical	Graphics	Display-Port dongle	PCIe Mini Card WLAN / BT	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2 Global	Preload	Ann date (mm/dd/yy)
4004-F1U	G640T	4GBx1	320G 7200	None	Intel HD	None	None	None	Stand	Mount	ES52	None	Win8 Pro64 10/23/12
4004-G3U	i3-2120T	4GBx1	500G 7200	None	HD 2000	None	None	None	Stand	None	ES52	None	Win7 Pro64 10/23/12
4004-G4U	i3-2120T	4GBx1	500G 7200	None	HD 2000	None	Intel 105	None	Stand	None	ES52	None	Win7 Pro64 10/23/12
4004-G5U	i3-2120T	4GBx1	500G 7200	None	HD 2000	None	Intel 2230 + BT	None	Stand	None	ES52	None	Win7 Pro64 10/23/12
4004-G9U	i3-2120T	4GBx1	500G 7200	None	HD 2000	None	None	None	None	Mount	ES52	None	Win7 Pro64 10/23/12
4004-H2U	i3-2120T	4GBx1	500G 7200	None	HD 2000	None	Intel 2230 + BT	None	None	Mount	ES52	None	Win7 Pro64 10/23/12
4004-H5U	G645T	4GBx1	500G 5400	None	Intel HD	None	Intel 105	None	Stand	None	ES52	None	Win7 Pro64 11/20/12
4004-J2U	G645T	4GBx1	500G 7200	None	Intel HD	None	Intel 105	Serial	Stand	None	ES52	None	Win7 Pro64 12/25/12
4004-H6U	G1610T	4GBx1	500G 5400	None	Intel HD	None	Intel 105	None	Stand	None	ES52	None	Win7 Pro64 01/22/13
4004-H7U	G2020T	4GBx1	500G 5400	None	Intel HD	None	Intel 105	None	Stand	None	ES52	None	Win7 Pro64 01/22/13

Positioning Processor	<i>Essential business features, exceptional value</i> <b>Intel® Celeron® G1610T Processor (2 cores / 2 threads, 2.3GHz, 2MB cache)</b> , integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Pentium® G640T Processor (2 cores / 2 threads, 2.4GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller <b>Intel Pentium G645T Processor (2 cores / 2 threads, 2.5GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Pentium G2020T Processor (2 cores / 2 threads, 2.5GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core™ i3-2120T Processor (2 cores / 4 threads, 2.6GHz, 3MB cache)</b> , integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology	<b>Preloaded operating system</b> <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 8 Pro 64-bit <b>Preloaded applications (only some listed)</b> <b>- Windows 7 models</b> <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage Power Manager</li> <li>ThinkVantage Communication Utility</li> <li>Lenovo® Message Center Plus</li> <li>Lenovo SimpleTap</li> <li>Adobe® Reader®</li> <li>Windows Live™ Essentials</li> <li>Corel® Burn.Now™ (DVD±RW)</li> <li>Corel DVD MovieFactory® (DVD±RW)</li> </ul> <b>- Windows 8 models</b> <ul style="list-style-type: none"> <li>Lenovo Support</li> <li>Lenovo Companion</li> <li>Lenovo Cloud Storage</li> <li>Norton™ Studio</li> <li>AccuWeather</li> <li>Evernote®</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> </ul> <b>- All models</b> <ul style="list-style-type: none"> <li>ThinkVantage System Update</li> <li>Lenovo Solution Center</li> <li>View Management Utility</li> <li>Norton Internet Security (30 days of virus definitions)</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Skype™</li> </ul>
Implementation	Processor in LGA1155 socket	
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook), <i>System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller</i>	
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 2000</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution vary by processor (i5 CPU supports max: 2560x2048)</i>	
DP dongle	None	
Disk	SATA 3.0Gb/s, 2.5" Wide	
External optical	None	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset	
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar	
eSATA port	None	
Chipset	<b>Intel H61 Express Chipset</b>	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	
Intel AMT	None	
Modem	None	
Security chip	None	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Floor Stand	<i>Some:</i> System floor stand for vertical orientation	
VESA mount	<i>Some:</i> Supports VESA 75mm and 100mm mount standard	
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU	
Machine	<ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>7.1" W X 7.2" D X 1.4" H</li> <li>179mm W X 182mm D X 34.5mm H</li> <li>4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)</li> </ul>	<b>Security</b> <ul style="list-style-type: none"> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> </ul>
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<b>EPEAT™ Gold rating</b> <b>ENERGY STAR® 5.2-compliant</b> Cisco EnergyWise compatible <b>GREENGUARD® certified</b> RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US models announced Oct 23, 2012, Nov 20, 2012, Dec 25, 2012, or Jan 22, 2013

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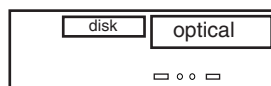
# ThinkCentre M72e Small (0967) - TopSeller - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Win7 preload	Ann date (mm/dd/yy)
0967-A1U	3x2	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	None	None	Pro 64	06/05/12
0967-A7U	3x2	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	None	None	Pro 64	09/04/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>								<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket								Genuine Windows® 7 Professional 64  <b>Ready to install applications (only some listed)</b> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>			
Implementation	Processor in LGA1155 socket								<b>Preloaded applications (only some listed)</b>			
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets								<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>											
Disk	SATA 3.0Gb/s 7200 rpm											
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset											
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar											
eSATA port	None											
Media reader	None											
Chipset	<b>Intel H61 Express Chipset</b>											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
PCIe WLAN <sup>†</sup>	None											
Bluetooth	None											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Intel AMT	None											
Modem	None											
Security chip	None											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Floor Stand	System floor stand for vertical orientation											
Power supply	240 watts, autosensing, active Power Factor Correction											
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.2" W X 15.0" D X 3.9" H</li> <li>• 335mm W X 382mm D X 101mm H</li> <li>• 14.6 lb (6.6 kg) in maximum configuration</li> <li>• Highlighted optical drive button for easy access</li> </ul>								<b>Security</b>			
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk								<ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1								Cisco EnergyWise compatible RoHS-compliant  Supports ThinkVantage Technologies			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available								For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet			



See footnotes for important warranty information  
 US models announced June 5, or September 4, 2012

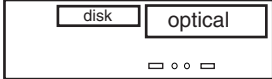
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# ThinkCentre M72e Small (0967) - TopSeller - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Win7 preload	Ann date (mm/dd/yy)
0967-A2U	3x2	G860	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Pro 64	06/19/12
0967-A3U	3x2	i3-2120	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2000	None	Stand	None	None	Pro 64	06/19/12
0967-B2U	3x2	G640	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Pro 64	09/04/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>										
Processor	<p><b>Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Pentium G860 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Processor in LGA1155 socket</p>										
Implementation											
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets; <i>System automatically clocks down for processors with 1066 or 1333MHz DDR3 memory controller</i>										
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 2000</b> in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>										
Disk	SATA 3.0Gb/s 7200 rpm										
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset										
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar										
eSATA port	None										
Media reader	None										
Chipset	<b>Intel H61 Express Chipset</b>										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)										
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec										
PCIe WLAN <sup>4</sup>	None										
Bluetooth	None										
Speaker	Internal speaker for business audio										
IEEE 1394	None										
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®										
Intel AMT	None										
Modem	None										
Security chip	None										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Floor Stand	System floor stand for vertical orientation										
Power supply	240 watts, autosensing, active Power Factor Correction										
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.2" W X 15.0" D X 3.9" H</li> <li>• 335mm W X 382mm D X 101mm H</li> <li>• 14.6 lb (6.6 kg) in maximum configuration</li> <li>• Highlighted optical drive button for easy access</li> </ul>										
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk										
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1										
											
<b>Preloaded operating system</b>											
Genuine Windows® 7 Professional 64											
<b>Ready to install applications</b> (only some listed)											
<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>											
<b>Preloaded applications</b> (only some listed)											
<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>											
<b>Security</b>											
<ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>											
Cisco EnergyWise compatible											
RoHS-compliant											
Supports ThinkVantage Technologies											
For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet											
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										

See footnotes for important warranty information  
US models announced June 19 or September 4, 2012

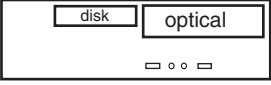
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(MOS11-19) September 2012



# ThinkCentre M72e Small (0967) - TopSeller (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
0967-A8U	3x2	G870	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win8 Pro64	10/23/12
0967-A9U	3x2	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	None	None	Win8 Pro64	10/23/12
0967-B1U	3x2	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	None	None	Win8 Pro64	10/23/12
0967-B6U	3x2	G645	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win7 Pro64	10/23/12
0967-B3U	3x2	G860	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win7 Pro64	10/23/12
0967-B4U	3x2	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	None	None	Win7 Pro64	10/23/12
0967-B5U	3x2	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	None	None	Win7 Pro64	10/23/12
0967-B8U	3x2	G2120	4GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win7 Pro64	12/04/12
0967-C1U	3x2	G2020	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win7 Pro64	02/19/13
0967-B9U	3x2	G2120	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win7 Pro64	02/19/13
0967-C2U	3x2	i7-3770	4GBx2 1600MHz	250G 7200	DVD±RW	HD 4000	None	Stand	None	None	Win7 Pro64	06/11/13

Positioning Processor	<p><i>Essential business features, exceptional value</i></p> <p><b>Intel® Pentium® G645 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1066MHz)  <b>Intel Pentium G2020 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz)  <b>Intel Pentium G860 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz)  <b>Intel Pentium G870 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz)  <b>Intel Pentium G2120 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1600MHz)  <b>Intel Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, 1600MHz dual-channel DDR3 memory controller  <b>Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology  <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket</p>								<p><b>Preloaded operating system</b></p> <p>Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</p> <p>Some: Windows 8 Pro 64-bit</p> <p><b>Preloaded applications (only some listed)</b></p> <p><b>- Windows 7 models</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• Lenovo® Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Windows Live™ Essentials</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul> <p><b>- Windows 8 models</b></p> <ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul> <p><b>- All models</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>			
Implementation	Processor in LGA1155 socket											
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets; System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller											
Graphics	<b>Intel HD Graphics, Intel HD Graphics 2500, or Intel HD Graphics 4000</b> in processor, uses main memory, one VGA, one DVI-D, supports dual independent display; Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz											
Disk	SATA 3.0Gb/s 7200 rpm											
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset											
Onboard SATA eSATA port	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar											
Media reader	None											
Chipset	<b>Intel H61 Express Chipset</b>											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
PCIe WLAN <sup>4</sup>	None											
Bluetooth	None											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Intel AMT	None											
Modem	None											
Security chip	None								<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Floor Stand	System floor stand for vertical orientation											
Power supply	240 watts, autosensing, active Power Factor Correction											
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.2" W X 15.0" D X 3.9" H</li> <li>• 335mm W X 382mm D X 101mm H</li> <li>• 14.6 lb (6.6 kg) in maximum configuration</li> <li>• Highlighted optical drive button for easy access</li> </ul>											
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk								Cisco EnergyWise compatible RoHS-compliant			
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1								Supports ThinkVantage Technologies			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available								For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information

US models announced October 23 or December 4, 2012 or February 19 or June 11, 2013

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(MOSI1-24) June 2013

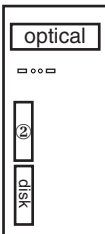


# ThinkCentre M72e Tower (0958) - TopSeller - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date (mm/dd/yy)
0958-A1U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Pro 64	06/05/12
0958-A4U	3x3	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Pro 64	09/04/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>							<b>Preloaded operating system</b>				
Processor	<b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket							Genuine Windows® 7 Professional 64  <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>				
Implementation	Processor in LGA1155 socket							<b>Preloaded applications</b> (only some listed)				
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets							<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>											
Disk	SATA 3.0Gb/s 7200 rpm											
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset											
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar											
eSATA port	None											
Media reader	None											
Chipset	<b>Intel H61 Express Chipset</b>											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
PCIe WLAN <sup>4</sup>	None											
Bluetooth	None											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Intel AMT	None											
Modem	None											
Security chip	None											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Power supply	280 watts with variable speed fan, manual switch											
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.3" W X 16.6" D X 15.3" H (with handle)</li> <li>• 160mm W X 422mm D X 388mm H</li> <li>• 20.7 lb (9.4 kg) in maximum configuration</li> <li>• Handle on top front</li> <li>• Highlighted optical drive button for easy access</li> </ul>											
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk Bay 3: 3.5", 1" high, no access, std disk											
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1											
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available							<b>Security</b> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:                         <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>				
								Cisco EnergyWise compatible RoHS-compliant				
								Supports ThinkVantage Technologies				
								For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information  
US models announced June 5, or September 4, 2012

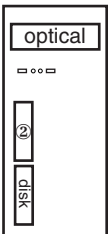
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(MOSI1-12) September 2012

# ThinkCentre M72e Tower (0958) - TopSeller - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date (mm/dd/yy)
0958-A2U	3x3	G860	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	None	None	Pro 64	06/19/12
0958-A3U	3x3	i3-2120	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2000	None	None	None	Pro 64	06/19/12
0958-A8U	3x3	G640	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	None	None	Pro 64	09/04/12

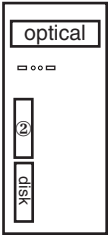
- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>						<b>Preloaded operating system</b>					
Processor	<p><b>Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Pentium G860 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Processor in LGA1155 socket</p>						<p>Genuine Windows® 7 Professional 64</p> <p><b>Ready to install applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <p><b>Preloaded applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>					
Implementation	Processor in LGA1155 socket											
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets; <i>System automatically clocks down for processors with 1066 or 1333MHz DDR3 memory controller</i>											
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 2000</b> in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>											
Disk	SATA 3.0Gb/s 7200 rpm											
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset											
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar											
eSATA port	None											
Media reader	None											
Chipset	<b>Intel H61 Express Chipset</b>											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
PCIe WLAN <sup>4</sup>	None											
Bluetooth	None											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Intel AMT	None											
Modem	None											
Security chip	None											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Power supply	280 watts with variable speed fan, manual switch											
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.3" W X 16.6" D X 15.3" H (with handle)</li> <li>• 160mm W X 422mm D X 388mm H</li> <li>• 20.7 lb (9.4 kg) in maximum configuration</li> <li>• Handle on top front</li> <li>• Highlighted optical drive button for easy access</li> </ul>											
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk Bay 3: 3.5", 1" high, no access, std disk											
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1											
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available						<b>Security</b> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>					
							Cisco EnergyWise compatible					
							RoHS-compliant					
							Supports ThinkVantage Technologies					
							For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet					

# ThinkCentre M72e Tower (0958) - TopSeller (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
0958-A5U	3x3	G870	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	None	None	Win8 Pro64	10/23/12
0958-A6U	3x3	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Win8 Pro64	10/23/12
0958-A7U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Win8 Pro64	10/23/12
0958-A9U	3x3	G860	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	None	None	Win7 Pro64	10/23/12
0958-B1U	3x3	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Win7 Pro64	10/23/12
0958-B2U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Win7 Pro64	10/23/12
0958-B3U	3x3	G645	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	None	None	Win7 Pro64	10/23/12
0958-B4U	3x3	G2120	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	None	None	Win7 Pro64	12/04/12
0958-B5U	3x3	G2120	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	None	None	Win7 Pro64	02/19/13
0958-B6U	3x3	G2020	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	None	None	Win7 Pro64	02/19/13
0958-B7U	3x3	i7-3770	4GBx2 1600MHz	250G 7200	Bay	DVD±RW	HD 4000	None	None	None	Win7 Pro64	06/11/13

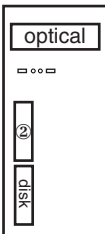
Positioning Processor	<i>Essential business features, exceptional value</i> <b>Intel® Pentium® G645 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1066MHz) <b>Intel Pentium G2020 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) <b>Intel Pentium G860 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) <b>Intel Pentium G870 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) <b>Intel Pentium G2120 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1600MHz) <b>Intel Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD Graphics 2500, 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache)</b> , Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache)</b> , Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology	<b>Preloaded operating system</b> <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 8 Pro 64-bit <b>Preloaded applications (only some listed)</b> <b>- Windows 7 models</b> <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage Power Manager</li> <li>ThinkVantage Communication Utility</li> <li>Lenovo® Message Center Plus</li> <li>Lenovo SimpleTap</li> <li>Adobe® Reader®</li> <li>Windows Live™ Essentials</li> <li>Corel® Burn.Now™ (DVD±RW)</li> <li>Corel DVD MovieFactory® (DVD±RW)</li> </ul> <b>- Windows 8 models</b> <ul style="list-style-type: none"> <li>Lenovo Support</li> <li>Lenovo Companion</li> <li>Lenovo Cloud Storage</li> <li>Norton™ Studio</li> <li>AccuWeather</li> <li>Evernote®</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> </ul> <b>- All models</b> <ul style="list-style-type: none"> <li>ThinkVantage System Update</li> <li>Lenovo Solution Center</li> <li>View Management Utility</li> <li>Norton Internet Security (30 days of virus definitions)</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Skype™</li> </ul>
Implementation	Processor in LGA1155 socket	
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets; <i>System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller</i>	
Graphics	<b>Intel HD Graphics, Intel HD Graphics 2500, or Intel HD Graphics 4000</b> in processor, uses main memory, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>	
Disk	SATA 3.0Gb/s 7200 rpm	
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset	
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar	
eSATA port	None	
Media reader	None	
Chipset	<b>Intel H61 Express Chipset</b>	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
PCIe WLAN <sup>†</sup>	None	
Bluetooth	None	
Speaker	Internal speaker for business audio	
IEEE 1394	None	
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	
Intel AMT	None	
Modem	None	
Security chip	None	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	280 watts with variable speed fan, manual switch	
Machine	<ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>6.3" W X 16.6" D X 15.3" H (with handle)</li> <li>160mm W X 422mm D X 388mm H</li> <li>20.7 lb (9.4 kg) in maximum configuration</li> <li>Handle on top front</li> <li>Highlighted optical drive button for easy access</li> </ul>	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk Bay 3: 3.5", 1" high, no access, std disk	
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1	
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	
		<b>Security</b> <ul style="list-style-type: none"> <li>One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul> Cisco EnergyWise compatible RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet

# ThinkCentre M72e Tower (3675) - ES 5.2 (TopSeller) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date (mm/dd/yy)
3675-A1U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	ES52	None	Pro 64	06/05/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>							<b>Preloaded operating system</b>				
Processor	Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket							Genuine Windows® 7 Professional 64				
Implementation	Processor in LGA1155 socket							<b>Ready to install applications</b> (only some listed)				
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets							<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>				
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>							<b>Preloaded applications</b> (only some listed)				
Disk	SATA 3.0Gb/s 7200 rpm							<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo Simple Tap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset											
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar											
eSATA port	None											
Media reader	None											
Chipset	<b>Intel H61 Express Chipset</b>											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
PCIe WLAN <sup>†</sup>	None											
Bluetooth	None											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Intel AMT	None											
Modem	None											
Security chip	None											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Power supply	280 watts with variable speed fan, autosensing, 85% PSU											
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.3" W X 16.6" D X 15.3" H (with handle)</li> <li>• 160mm W X 422mm D X 388mm H</li> <li>• 20.7 lb (9.4 kg) in maximum configuration</li> <li>• Handle on top front</li> <li>• Highlighted optical drive button for easy access</li> </ul>											
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk Bay 3: 3.5", 1" high, no access, std disk											
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1											
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available							<b>Security</b> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>				
								EPEAT™ Gold rating ENERGY STAR® 5.2-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant				
								Supports ThinkVantage Technologies				
								For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet				



# ThinkCentre M72e Tiny (3264) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical	Graphics	Display-Port dongle	PCIe Mini Card WLAN / BT	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2 Global	Win7 preload (mm/dd/yy)	Ann date (mm/dd/yy)
3264-D7U	G630T	4GBx1	320G 5400	DVD±RW	Intel HD	None	None	None	None	Mount	ES52	None	Pro 64 06/05/12
3264-A1U	i3-2120T	4GBx1	320G 5400	None	HD 2000	None	None	None	Stand	None	ES52	None	Pro 64 06/05/12
3264-A2U	G630T	2GBx1	320G 5400	None	Intel HD	None	None	None	Stand	None	ES52	None	Pro 64 06/05/12
3264-A3U	G530T	2GBx1	320G 5400	None	Intel HD	None	None	None	Stand	None	ES52	None	Pro 32 06/05/12
3264-A4U	G460	2GBx1	320G 5400	None	Intel HD	None	None	None	Stand	None	ES52	None	Pro 32 06/05/12
3264-A5U	i3-2120T	4GBx1	500G 5400	None	HD 2000	None	None	None	Stand	None	ES52	None	Pro 64 06/05/12
3264-P7U	i3-2120T	4GBx1	500G 7200	DVD±RW	HD 2000	None	Intel 105	None	None	Mount	ES52	None	Pro 64 06/19/12
3264-P8U	i3-2120T	4GBx1	500G 7200	DVD±RW	HD 2000	None	Intel 105	None	None	Mount	ES52	None	Prem 64 06/19/12
3264-N2U	i3-2120T	2GBx1	320G 7200	None	HD 2000	None	None	None	Stand	None	ES52	None	Pro 32 07/10/12
3264-N3U	i3-2120T	4GBx1	320G 7200	DVD±RW	HD 2000	None	None	None	None	Mount	ES52	None	Pro 32 07/10/12
3264-N4U	G630T	4GBx1	320G 7200	None	Intel HD	None	None	None	Stand	None	ES52	None	Pro 32 07/10/12

●3-year limited warranty

Positioning Processor	<p><i>Ultimate security, stability, and manageability for the enterprise</i></p> <p><b>Intel® Celeron® G460 Processor (1 core / 2 threads, 1.8GHz, 1.5MB cache),</b> integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller</p> <p><b>Intel Celeron G530T Processor (2 cores / 2 threads, 2.0GHz, 2MB cache),</b> integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller</p> <p><b>Intel Pentium® G630T Processor (2 cores / 2 threads, 2.3GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller</p> <p><b>Intel Core™ i3-2120T Processor (2 cores / 4 threads, 2.6GHz, 3MB cache),</b> integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller</p>	<p><b>Preloaded operating system</b></p> <p><i>Some:</i> Genuine Windows® 7 Professional 32</p> <p><i>Some:</i> Genuine Windows 7 Professional 64</p> <p><i>Some:</i> Genuine Windows 7 Home Premium 64</p> <p><b>Ready to install applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul> <p><b>Preloaded applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Power Manager</li> <li>● ThinkVantage Communication Utility</li> <li>● View Management Utility</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>
Implementation	Processor in LGA1155 socket	
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook), <i>System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller</i>	
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 2000</b> in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution vary by processor (i5 CPU supports max: 2560x2048)</i>	
DP dongle	None	
Disk	SATA 3.0Gb/s, 2.5" Wide	
External optical	<i>Some:</i> Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset	
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar	
eSATA port	None	
Chipset	<b>Intel H61 Express Chipset</b>	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1	
Bluetooth	None	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	
Intel AMT	None	
Modem	None	
Security chip	None	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> </ul>
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Floor Stand	<i>Some:</i> System floor stand for vertical orientation	
VESA mount	<i>Some:</i> Supports VESA 75mm and 100mm mount standard	
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU	
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 7.1" W X 7.2" D X 1.4" H</li> <li>● 179mm W X 182mm D X 34.5mm H</li> <li>● 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)</li> </ul>	<p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 5.2-compliant</p> <p>Cisco EnergyWise compatible</p> <p>GREENGUARD® certified</p> <p>RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p>
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<p>For compatible accessories, please go to O-M72E sheet;</p> <p>For Lenovo service upgrade options, please go to S-TC sheet</p>

See footnotes for important warranty information  
US models announced June 5, June 19, or July 10, 2012

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(MOSI-3) July 2012



# ThinkCentre M72e Tiny (3264) - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical	Display-Port dongle	PCIe Mini Card WLAN / BT	Optional port	Chassis Intrusion switch	Security Cable	Floor stand	VESA mount	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
3264-A7U	i5-3470T	4GBx1	500G 5400	DVD±RW	None	None	None	None	None	None	Mount	ES52	None	Pro 64 06/05/12
3264-B7U	i5-3470T	4GBx1	500G 5400	None	None	None	None	None	None	Stand	None	ES52	None	Pro 64 06/05/12
3264-P9U	i5-3470T	4GBx1	500G 7200	DVD±RW	None	Intel 105	None	None	None	None	Mount	ES52	None	Pro 64 06/19/12
3264-Q1U	i5-3470T	4GBx1	500G 7200	DVD±RW	None	Intel 2230 + BT	None	None	None	None	Mount	ES52	None	Pro 64 06/19/12
3264-Q2U	i5-3470T	4GBx1	500G 7200	None	None	Intel 2230 + BT	None	None	None	Stand	Mount	ES52	None	Pro 64 06/19/12
3264-N5U	i5-3470T	4GBx1	500G 7200	None	None	None	None	None	None	Stand	None	ES52	None	Pro 64 07/10/12
3264-V1U	i5-3470T	4GBx2	180G SSD	DVD±RW	None	Intel 2230 + BT	None	Switch	Cable	None	Mount	ES52	None	Pro 64 11/06/12

●3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>		
Processor	Intel® Core™ i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology											Genuine Windows® 7 Professional 64		
Implementation	Processor in LGA1155 socket											<b>Ready to install applications</b> (only some listed)		
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul>		
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution vary by processor (i5 CPU supports max: 2560x2048)</i>											<b>Preloaded applications</b> (only some listed)		
DP dongle	None											<ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Power Manager</li> <li>● ThinkVantage Communication Utility</li> <li>● View Management Utility</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>		
Disk	<i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide <i>Some:</i> Hard Disk Drive / SATA 3.0Gb/s, 2.5" Wide													
External optical	<i>Some:</i> Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in													
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset													
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar													
eSATA port	None													
Chipset	<b>Intel H61 Express Chipset</b>													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)													
PCIe Mini Card	One PCI Express® Mini Card slot													
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2													
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®													
Intel AMT	None													
Modem	None													
Security chip	None													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Floor Stand	<i>Some:</i> System floor stand for vertical orientation													
VESA mount	<i>Some:</i> Supports VESA 75mm and 100mm mount standard													
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU													
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 7.1" W X 7.2" D X 1.4" H</li> <li>● 179mm W X 182mm D X 34.5mm H</li> <li>● 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)</li> </ul>											<b>Security</b>		
												<ul style="list-style-type: none"> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>		
												EPEAT™ Gold rating ENERGY STAR® 5.2-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant		
												Supports ThinkVantage Technologies		
												For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													

See footnotes for important warranty information  
US models announced June 5, June 19, July 10, or Nov 6, 2012

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(MOSI1-4) November 2012

# ThinkCentre M72e Tiny (3264) - Thin Client - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical	Graphics	Display-Port dongle	PCIe Mini Card WLAN / BT	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
3264-R3U	G460	2GBx1	8G SSD	None	Intel HD	None	None	None	Stand	Mount	ES52	None	Emb 32 07/10/12
3264-R6U	G640T	4GBx1	8G SSD	None	Intel HD	None	None	None	None	Mount	ES52	None	Emb 32 09/04/12
3264-AMU	G640T	2GBx1	8G SSD	None	Intel HD	None	Intel 2230 + BT	None	Stand	None	ES52	None	Emb 32 03/05/13
3264-YSU	G2020T	2GBx1	8G SSD	None	Intel HD	None	Intel 2230 + BT	None	Stand	None	ES52	None	Emb 32 06/11/13
3264-YTU	G470	2GBx1	8G SSD	None	Intel HD	None	None	None	Stand	None	ES52	None	Emb 32 06/11/13

●3-year limited warranty

Positioning Processor	<p><i>Ultimate security, stability, and manageability for the enterprise</i></p> <p><b>Intel® Celeron® G460 Processor (1 core / 2 threads, 1.8GHz, 1.5MB cache)</b>, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller</p> <p><b>Intel Celeron G470 Processor (1 core / 2 threads, 2.0GHz, 1.5MB cache)</b>, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller</p> <p><b>Intel Pentium® G640T Processor (2 cores / 2 threads, 2.4GHz, 3MB cache)</b>, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller</p> <p><b>Intel Pentium G2020T Processor (2 cores / 2 threads, 2.5GHz, 3MB cache)</b>, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller</p>	<p><b>Preloaded operating system</b></p> <p>Genuine Windows® 7 Embedded 32</p> <p><b>Preloaded applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>● Adobe® Reader®</li> <li>● Adobe Flash® Player</li> <li>● Citrix® Receiver</li> <li>● IIS Web Server</li> <li>● Microsoft® Management Console</li> <li>● Microsoft Silverlight</li> <li>● Remote Desktop Protocol</li> <li>● ThinPrint .print Client</li> <li>● TightVNC Viewer</li> <li>● VMware® View Client</li> <li>● vWorkspace</li> <li>● Windows Media Player</li> </ul>
Implementation	Processor in LGA1155 socket	
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook), <i>System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller</i>	
Graphics	<b>Intel HD Graphics</b> in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz</i>	
DP dongle	None	
Disk	Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide	
External optical	None	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset	
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar	
eSATA port	None	
Chipset	<b>Intel H61 Express Chipset</b>	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	
Intel AMT	None	
Modem	None	
Security chip	None	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> </ul>
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Floor Stand	<i>Some:</i> System floor stand for vertical orientation	
VESA mount	<i>Some:</i> Supports VESA 75mm and 100mm mount standard	
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU	
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 7.1" W X 7.2" D X 1.4" H</li> <li>● 179mm W X 182mm D X 34.5mm H</li> <li>● 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)</li> </ul>	<p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 5.2-compliant</p> <p>GREENGUARD® certified</p> <p>RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p>
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<p>For compatible accessories, please go to O-M72E sheet;</p> <p>For Lenovo service upgrade options, please go to S-TC sheet</p>

See footnotes for important warranty information

US models announced July 10, 2012, September 4, 2012, March 5, 2013, or June 11, 2013

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(MOSI1-21) June 2013

# ThinkCentre M72e Tiny (3264) - Windows 8 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2	Key- board/ Mouse	Global	Preload	Ann date (mm/dd/yy)
3264-Q5U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	None	None	Mount	ES52	USB	None	Win8 Pro64	10/23/12
3264-R1U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	Stand	Mount	ES52	USB	None	Win8 Pro64	10/23/12
3264-R2U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 2230 + BT	None	None	Mount	ES52	USB	None	Win8 Pro64	10/23/12
3264-R8U	i3-3220T	4GBx1	320G 7200	None	HD 2500	None	None	None	Mount	ES52	USB	None	Win8 Pro64	10/23/12
3264-R9U	i3-3220T	4GBx1	320G 7200	DVD±RW	HD 2500	Intel 2230 + BT	None	None	Mount	ES52	USB	None	Win8 Pro64	10/23/12
3264-S1U	i5-3470T	4GBx1	320G 7200	DVD±RW	HD 2500	Intel 2230 + BT	None	None	Mount	ES52	USB	None	Win8 Pro64	10/23/12
3264-S2U	i5-3470T	4GBx1	320G 7200	None	HD 2500	Intel 2230 + BT	None	None	Mount	ES52	USB	None	Win8 Pro64	10/23/12
3264-T2U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	None	None	Mount	ES52	USB	None	Win7 Pro64	10/23/12
3264-T3U	i3-3220T	4GBx1	500G 7200	None	HD 2500	None	None	None	Mount	ES52	USB	None	Win8 Pro64	10/23/12
3264-T4U	i3-3220T	4GBx1	500G 7200	None	HD 2500	Intel 105	None	None	Mount	ES52	USB	None	Win7 Pro64	10/23/12
3264-T5U	i5-3470T	4GBx1	500G 7200	None	HD 2500	None	None	None	Mount	ES52	USB	None	Win7 Pro64	10/23/12
3264-T7U	i5-3470T	4GBx1	500G 5400	None	HD 2500	None	None	Stand	None	ES52	USB	None	Win7 Pro64	10/23/12
3264-T9U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 105	None	None	Mount	ES52	USB	None	Win7 Pro64	10/23/12
3264-U1U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 2230 + BT	None	None	Mount	ES52	USB	None	Win7 Pro64	10/23/12
3264-U2U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	Stand	None	ES52	USB	None	Win7 Pro64	10/23/12
3264-U3U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	None	Mount	ES52	USB	None	Win7 Pro64	10/23/12
3264-YRU	i3-3220T	4GBx1	500G 7200	None	HD 2500	Intel 105	None	None	Mount	ES52	2.4G	None	Win8 Pro64	05/28/13

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>	<b>Preloaded operating system</b>  <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 8 Pro 64-bit
Processor	<b>Intel® Core™ i3-3220T Processor (2 cores / 4 threads, 2.8GHz, 3MB cache)</b> , integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache)</b> , Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology	
Implementation	Processor in LGA1155 socket	<b>Preloaded applications (only some listed) - Windows 7 models</b> <ul style="list-style-type: none"><li>ThinkVantage® Product Recovery</li><li>ThinkVantage Power Manager</li><li>ThinkVantage Communication Utility</li><li>Lenovo® SimpleTap</li><li>Adobe® Reader®</li><li>Corel® Burn.Now™ (DVD±RW)</li><li>Corel DVD MovieFactory® (DVD±RW)</li></ul> <b>- Windows 8 models</b> <ul style="list-style-type: none"><li>Lenovo Support</li><li>Lenovo Companion</li><li>Lenovo Cloud Storage</li><li>Norton™ Studio</li><li>AccuWeather</li><li>Evernote®</li><li>Cyberlink Power2Go (DVD±RW)</li><li>Cyberlink PowerProducer (DVD±RW)</li></ul> <b>- All models</b> <ul style="list-style-type: none"><li>ThinkVantage System Update</li><li>Lenovo Solution Center</li><li>View Management Utility</li><li>Norton Internet Security (30 days of virus definitions)</li><li>Microsoft® Office preloaded; purchase a product key to activate</li><li>Skype™</li></ul>
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution vary by processor (i5 CPU supports max: 2560x2048)</i>	
DP dongle	None	
Disk	SATA 3.0Gb/s, 2.5" Wide	
External optical	<i>Some:</i> Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset	
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar	
eSATA port	None	
Chipset	<b>Intel H61 Express Chipset</b>	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	
Intel AMT	None	
Modem	None	
Security chip	None	
Keyboard	<i>Some:</i> Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo <i>Some:</i> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black	
Mouse	<i>Some:</i> Enhanced Optical USB Mouse, black, Lenovo logo <i>Some:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black	
Floor Stand	<i>Some:</i> System floor stand for vertical orientation	
VESA mount	<i>Some:</i> Supports VESA 75mm and 100mm mount standard	
Power supply	65 watts AC/DC adapter, autosenesing, 87% PSU	
Machine	<ul style="list-style-type: none"><li>Business black color; metal case</li><li>7.1" W X 7.2" D X 1.4" H</li><li>179mm W X 182mm D X 34.5mm H</li><li>4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)</li></ul>	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<b>Security</b> <ul style="list-style-type: none"><li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li><li>Power-on password</li><li>Administrator password</li><li>Hard disk password</li><li>Boot sequence control</li><li>Boot without keyboard and mouse</li><li>Individual USB port disablement</li></ul> EPEAT™ Gold rating ENERGY STAR® 5.2-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies  For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US models announced October 23, 2012 or May 28, 2013

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(MOSI1-34) June 2013



# ThinkCentre M72e Tiny (3264) - Windows 8 - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical	Graphics	Display-Port dongle	PCIe Mini Card WLAN / BT	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2	Key-board/ Mouse	Global	Preload	Ann date (mm/dd/yy)
3264-R7U	G640T	4GBx1	320G 7200	None	Intel HD	None	None	None	None	Mount	ES52	USB	None	Win8 Pro64	10/23/12
3264-T1U	G645T	4GBx1	500G 5400	DVD±RW	Intel HD	None	None	None	Stand	Mount	ES52	USB	None	Win7 Pro64	10/23/12
3264-T8U	G645T	2GBx1	500G 5400	None	Intel HD	None	None	None	Stand	None	ES52	USB	None	Win7 Pro64	10/23/12
3264-AEU	G645T	4GBx1	500G 7200	None	Intel HD	None	Intel 105	Serial	None	Mount	ES52	USB	None	Win7 Pro64	12/25/12
3264-V2U	G2020T	4GBx1	500G 5400	None	Intel HD	None	Intel 105	None	Stand	None	ES52	USB	None	Win7 Pro64	01/22/13
3264-V3U	G1610T	4GBx1	500G 5400	None	Intel HD	None	Intel 105	None	Stand	None	ES52	USB	None	Win7 Pro64	01/22/13
3264-YQU	G2020T	4GBx1	500G 7200	None	Intel HD	None	Intel 105	None	None	Mount	ES52	2.4G	None	Win8 Pro64	05/28/13

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										<b>Preloaded operating system</b>				
Processor	<p><b>Intel® Celeron® G1610T Processor (2 cores / 2 threads, 2.3GHz, 2MB cache)</b>, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Pentium® G640T Processor (2 cores / 2 threads, 2.4GHz, 3MB cache)</b>, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller</p> <p><b>Intel Pentium G645T Processor (2 cores / 2 threads, 2.5GHz, 3MB cache)</b>, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Pentium G2020T Processor (2 cores / 2 threads, 2.5GHz, 3MB cache)</b>, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology</p>										<p><i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</p> <p><i>Some:</i> Windows 8 Pro 64-bit</p>				
Implementation	Processor in LGA1155 socket										<b>Preloaded applications</b> (only some listed)				
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook), <i>System automatically clocks down for processors with 1066MHz DDR3 memory controller</i>										<b>- Windows 7 models</b>				
Graphics	<b>Intel HD Graphics</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution vary by processor (i5 CPU supports max: 2560x2048)</i>										<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• Lenovo® SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
DP dongle	None										<b>- Windows 8 models</b>				
Disk	SATA 3.0Gb/s, 2.5" Wide										<ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul>				
External optical	<i>Some:</i> Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in										<b>- All models</b>				
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset										<ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>				
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar										<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> </ul> <p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 5.2-compliant</p> <p>Cisco EnergyWise compatible</p> <p>GREENGUARD® certified</p> <p>RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet</p>				
eSATA port	None														
Chipset	<b>Intel H61 Express Chipset</b>														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)														
PCIe Mini Card	One PCI Express® Mini Card slot														
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1														
Bluetooth	None														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®														
Intel AMT	None														
Modem	None														
Security chip	None														
Keyboard	<i>Some:</i> Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	<i>Some:</i> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black														
Floor Stand	<i>Some:</i> Enhanced Optical USB Mouse, black, Lenovo logo														
VESA mount	<i>Some:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black														
Power supply	<i>Some:</i> System floor stand for vertical orientation														
Machine	<i>Some:</i> Supports VESA 75mm and 100mm mount standard														
	65 watts AC/DC adapter, autosensing, 87% PSU														
	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 7.1" W X 7.2" D X 1.4" H</li> <li>• 179mm W X 182mm D X 34.5mm H</li> <li>• 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)</li> </ul>														
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

See footnotes for important warranty information  
US models announced Oct 23, 2012, Dec 25, 2012, Jan 22, 2013, or May 28, 2013

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(MOSI1-37) June 2013

# ThinkCentre M72e Tiny (3267) - GMP - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	SATA disk GB rpm	External optical	Graphics	Display- Port dongle	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2	Global (G) GMP (P)	Win7 preload	Ann date (mm/dd/yy)
3267-A1U	i5-3470T	4GBx1 1600MHz	320G 5400	DVD±RW	HD 2500	None	None	None	Mount	ES52	G P	Pro 64	06/05/12

●Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>												
Processor	<b>Intel® Core™ i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket</b>												
Implementation	Processor in LGA1155 socket												
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)												
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution vary by processor (i5 CPU supports max: 2560x2048)</i>												
DP dongle	None												
Disk	SATA 3.0Gb/s, 2.5" Wide, 5400 rpm												
External optical	Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in												
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset												
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar												
eSATA port	None												
Chipset	<b>Intel H61 Express Chipset</b>												
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)												
PCIe Mini Card	One PCI Express® Mini Card slot												
PCIe WLAN <sup>4</sup>	None												
Bluetooth	None												
Audio	High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker	Internal speaker for business audio												
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®												
Intel AMT	None												
Modem	None												
Security chip	None												
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Floor Stand	None												
VESA mount	Supports VESA 75mm and 100mm mount standard												
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU												
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 7.1" W X 7.2" D X 1.4" H</li> <li>● 179mm W X 182mm D X 34.5mm H</li> <li>● 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)</li> </ul>												
	<b>Preloaded operating system</b> Genuine Windows® 7 Professional 64  <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Power Manager</li> <li>● ThinkVantage Communication Utility</li> <li>● View Management Utility</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>												
	<b>Security</b> <ul style="list-style-type: none"> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> </ul>												
	EPEAT™ Gold rating ENERGY STAR® 5.2-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant												
	Supports ThinkVantage Technologies												
	For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet												
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available												

See footnotes for important warranty information  
US model announced June 5, 2012

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(MOS11-5) June 2012



# ThinkCentre M72e Tiny (3267) - GMP (Thin Client) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	SATA disk GB rpm	External optical	Graphics	Display-Port dongle	PCIe Mini Card WLAN / BT	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2	Global (G) GMP (P)	Win7 preload	Ann date (mm/dd/yy)
3267-A2U	G460	2GBx1	8G SSD	None	Intel HD	None	None	Serial	None	None	ES52	G P	Emb 32	07/10/12
3267-A5U	G465	2GBx1	8G SSD	None	Intel HD	None	None	Serial	None	None	ES52	G P	Emb 32	01/08/13
3267-A6U	G465	2GBx1	8G SSD	None	Intel HD	None	Intel 105	Serial	None	None	ES52	G P	Emb 32	03/12/13
3267-A7U	G470	2GBx1	8G SSD	None	Intel HD	None	Intel 105	Serial	None	None	ES52	G P	Emb 32	07/09/13
3267-A8U	G470	2GBx1	8G SSD	None	Intel HD	None	None	Serial	None	None	ES52	G P	Emb 32	07/09/13

●Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										
Processor	<b>Intel® Celeron® G460 Processor (1 core / 2 threads, 1.8GHz, 1.5MB cache),</b> integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller <b>Intel Celeron G465 Processor (1 core / 2 threads, 1.9GHz, 1.5MB cache),</b> integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller <b>Intel Celeron G470 Processor (1 core / 2 threads, 2.0GHz, 1.5MB cache),</b> integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Processor in LGA1155 socket										
Implementation											
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook), <i>System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller</i>										
Graphics	<b>Intel HD Graphics</b> in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz</i>										
DP dongle	None										
Disk	Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide										
External optical	None										
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset										
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar										
eSATA port	None										
Chipset	<b>Intel H61 Express Chipset</b>										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)										
PCIe Mini Card	One PCI Express® Mini Card slot										
PCIe WLAN <sup>4</sup>	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1										
Bluetooth	None										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec										
Speaker	Internal speaker for business audio										
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®										
Intel AMT	None										
Modem	None										
Security chip	None										
Keyboard	None										
Mouse	None										
Floor Stand	None										
VESA mount	None										
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU										
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 7.1" W X 7.2" D X 1.4" H</li> <li>● 179mm W X 182mm D X 34.5mm H</li> <li>● 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)</li> </ul>										
	<b>Preloaded operating system</b> Genuine Windows® 7 Embedded 32  <b>Preloaded applications (only some listed)</b> <ul style="list-style-type: none"> <li>● Adobe® Reader®</li> <li>● Adobe Flash® Player</li> <li>● Citrix® Receiver</li> <li>● IIS Web Server</li> <li>● Microsoft® Management Console</li> <li>● Microsoft Silverlight</li> <li>● Remote Desktop Protocol</li> <li>● ThinPrint .print Client</li> <li>● TightVNC Viewer</li> <li>● VMware® View Client</li> <li>● vWorkspace</li> <li>● Windows Media Player</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> </ul>										
	EPEAT™ Gold rating ENERGY STAR® 5.2-compliant GREENGUARD® certified RoHS-compliant										
	Supports ThinkVantage Technologies										
	For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet										
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										

See footnotes for important warranty information

US models announced July 10, 2012, January 8, 2013, March 12, 2013, or July 9, 2013

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(MOS11-23) July 2013

# ThinkCentre M72e Tiny (3267) - GMP (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical	Graphics	Display-Port dongle	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
3267-A3U	i5-3470T	4GBx1 1600MHz	320G 5400	DVD±RW	HD 2500	None	None	None	Mount	ES52	G P	Win8 Pro64	10/23/12
3267-A4U	i5-3470T	4GBx1 1600MHz	320G 5400	DVD±RW	HD 2500	None	None	None	Mount	ES52	G P	Win7 Pro64	10/23/12

•Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										
Processor	<b>Intel® Core™ i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket</b>										
Implementation											
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)										
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution vary by processor (i5 CPU supports max: 2560x2048)</i>										
DP dongle	None										
Disk	SATA 3.0Gb/s, 2.5" Wide, 5400 rpm										
External optical	Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in										
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset										
Onboard SATA eSATA port	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar										
Chipset	<b>Intel H61 Express Chipset</b>										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)										
PCIe Mini Card	One PCI Express® Mini Card slot										
PCIe WLAN <sup>4</sup>	None										
Bluetooth	None										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec										
Speaker	Internal speaker for business audio										
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®										
Intel AMT	None										
Modem	None										
Security chip	None										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Floor Stand	None										
VESA mount	Supports VESA 75mm and 100mm mount standard										
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU										
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 7.1" W X 7.2" D X 1.4" H</li> <li>• 179mm W X 182mm D X 34.5mm H</li> <li>• 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)</li> </ul>										
	<b>Preloaded operating system</b> <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 8 Pro 64-bit										
	<b>Preloaded applications</b> (only some listed) <b>- Windows 7 models</b> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• Lenovo® Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Windows Live™ Essentials</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul> <b>- Windows 8 models</b> <ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul> <b>- All models</b> <ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> </ul>										
	EPEAT™ Gold rating ENERGY STAR® 5.2-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant										
	Supports ThinkVantage Technologies										
	For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet										
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										

See footnotes for important warranty information  
US models announced October 23, 2012

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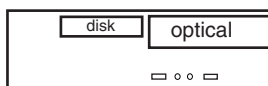
# ThinkCentre M72e Small (3598) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Win7 preload	Ann date (mm/dd/yy)
3598-D4U	3x2	G630	4GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Pro 64	06/05/12
3598-C4U	3x2	G850	4GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Pro 64	06/05/12
3598-A7U	3x2	i3-2120	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2000	None	Stand	None	None	Pro 64	06/05/12
3598-F3U	3x2	G630	2GBx1 1600MHz	250G 7200	DVD±RW	Intel HD	None	Stand	None	None	Pro 64	07/10/12

●3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>								<b>Preloaded operating system</b>			
Processor	<b>Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Pentium G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket								Genuine Windows® 7 Professional 64  <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Implementation	Processor in LGA1155 socket											
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets; <i>System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller</i>											
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 2000</b> in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>											
Disk	SATA 3.0Gb/s 7200 rpm											
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset											
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar											
eSATA port	None											
Media reader	None											
Chipset	<b>Intel H61 Express Chipset</b>											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
PCIe WLAN <sup>4</sup>	None											
Bluetooth	None											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Intel AMT	None											
Modem	None											
Security chip	None											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Floor Stand	System floor stand for vertical orientation											
Power supply	240 watts, autosensing, active Power Factor Correction											
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.2" W X 15.0" D X 3.9" H</li> <li>• 335mm W X 382mm D X 101mm H</li> <li>• 14.6 lb (6.6 kg) in maximum configuration</li> <li>• Highlighted optical drive button for easy access</li> </ul>								<b>Security</b> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• <i>Chassis intrusion switch on selected model(s)</i></li> </ul>			
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk								Cisco EnergyWise compatible RoHS-compliant			
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1								Supports ThinkVantage Technologies			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available								For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet			



See footnotes for important warranty information  
 US models announced June 5 or July 10, 2012

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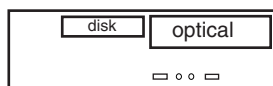
# ThinkCentre M72e Small (3598) - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Win7 preload	Ann date (mm/dd/yy)
3598-A5U	3x2	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	None	None	Pro 64	06/05/12
3598-E3U	3x2	i5-3570	4GBx1 1600MHz	250G 7200	DVD±RW	HD 2500	None	Stand	None	None	Pro 32	06/05/12

●3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>								<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> Processor in LGA1155 socket								Some: Genuine Windows® 7 Professional 32 Some: Genuine Windows 7 Professional 64			
Implementation	Processor in LGA1155 socket								<b>Ready to install applications</b> (only some listed)			
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets								<ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul>			
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>								<b>Preloaded applications</b> (only some listed)			
Disk	SATA 3.0Gb/s 7200 rpm								<ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Power Manager</li> <li>● ThinkVantage Communication Utility</li> <li>● View Management Utility</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Lenovo Simple Tap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset											
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar											
eSATA port	None											
Media reader	None											
Chipset	<b>Intel H61 Express Chipset</b>											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
PCIe WLAN <sup>†</sup>	None											
Bluetooth	None											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Intel AMT	None											
Modem	None											
Security chip	None											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Floor Stand	System floor stand for vertical orientation											
Power supply	240 watts, autosensing, active Power Factor Correction											
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 13.2" W X 15.0" D X 3.9" H</li> <li>● 335mm W X 382mm D X 101mm H</li> <li>● 14.6 lb (6.6 kg) in maximum configuration</li> <li>● Highlighted optical drive button for easy access</li> </ul>								<b>Security</b>			
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk								<ul style="list-style-type: none"> <li>● One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Serial port I/O control</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>			
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1								Cisco EnergyWise compatible RoHS-compliant Supports ThinkVantage Technologies			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available								For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet			



See footnotes for important warranty information  
 US models announced June 5, 2012

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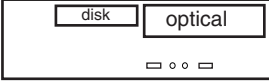


# ThinkCentre M72e Small (3598) - Windows 8 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2 Global	Preload	Ann date (mm/dd/yy)
3598-F9U	3x2	G870	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win8 Pro64 10/23/12
3598-G9U	3x2	G640	4GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win7 Pro64 10/23/12
3598-H1U	3x2	G870	4GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win7 Pro64 10/23/12
3598-H2U	3x2	G640	2GBx1 1600MHz	250G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win7 Pro64 10/23/12
3598-H3U	3x2	i5-3570	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	None	None	Win7 Pro64 10/23/12
3598-K2U	3x2	G2120	4GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win7 Pro64 12/04/12
3598-PEU	3x2	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	None	None	Win7 Pro64 06/25/13

●3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>		<b>Preloaded operating system</b>	
Processor	<p>Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Intel Pentium G870 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Intel Pentium G2120 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Intel Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Processor in LGA1155 socket</p>		<p>Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</p> <p>Some: Windows 8 Pro 64-bit</p> <p><b>Preloaded applications</b> (only some listed)</p> <p><b>- Windows 7 models</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• Lenovo® Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Windows Live™ Essentials</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul> <p><b>- Windows 8 models</b></p> <ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul> <p><b>- All models</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>	
Implementation				
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets; <i>System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller</i>			
Graphics	Intel HD Graphics or Intel HD Graphics 2500 in processor, uses main memory, HDCP, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>			
Disk	SATA 3.0Gb/s 7200 rpm			
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive			
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset			
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar			
eSATA port	None			
Media reader	None			
Chipset	<b>Intel H61 Express Chipset</b>			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)			
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)			
Audio	High Definition (HD) Audio, Realtek® ALC662 codec			
PCIe WLAN <sup>4</sup>	None			
Bluetooth	None			
Speaker	Internal speaker for business audio			
IEEE 1394	None			
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®			
Intel AMT	None			
Modem	None			
Security chip	None			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo			
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo			
Floor Stand	System floor stand for vertical orientation			
Power supply	240 watts, autosensing, active Power Factor Correction			
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.2" W X 15.0" D X 3.9" H</li> <li>• 335mm W X 382mm D X 101mm H</li> <li>• 14.6 lb (6.6 kg) in maximum configuration</li> <li>• Highlighted optical drive button for easy access</li> </ul>			
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk			
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available		<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul> <p>Cisco EnergyWise compatible RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet</p>	

See footnotes for important warranty information  
US models announced October 23 or December 4, 2012 or June 25, 2013


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# ThinkCentre M72e Small (3660) - ES 5.2 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Win7 preload	Ann date (mm/dd/yy)
3660-B6U	3x2	i3-2120	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2000	None	Stand	ES52	None	Pro 64	06/05/12

●3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>											
Processor	Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology											
Implementation	Processor in LGA1155 socket											
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets; <i>System automatically clocks down for processors with 1333MHz DDR3 memory controller</i>											
Graphics	Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>											
Disk	SATA 3.0Gb/s 7200 rpm											
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset											
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar											
eSATA port	None											
Media reader	None											
Chipset	Intel H61 Express Chipset											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
PCIe WLAN <sup>4</sup>	None											
Bluetooth	None											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Intel AMT	None											
Modem	None											
Security chip	None											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Floor Stand	System floor stand for vertical orientation											
Power supply	240 watts, autosensing, 85% PSU											
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 13.2" W X 15.0" D X 3.9" H</li> <li>● 335mm W X 382mm D X 101mm H</li> <li>● 14.6 lb (6.6 kg) in maximum configuration</li> <li>● Highlighted optical drive button for easy access</li> </ul>											
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk											
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1											
												
	<b>Preloaded operating system</b> Genuine Windows® 7 Professional 64  <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Power Manager</li> <li>● ThinkVantage Communication Utility</li> <li>● View Management Utility</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>											
	<b>Security</b> <ul style="list-style-type: none"> <li>● One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Serial port I/O control</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>											
	EPEAT™ Gold rating ENERGY STAR® 5.2-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant											
	Supports ThinkVantage Technologies											
	For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet											
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											

See footnotes for important warranty information  
US model(s) announced June 5, 2012

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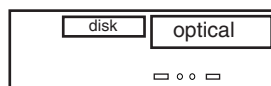
# ThinkCentre M72e Small (3660) - ES 5.2 - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Win7 preload	Ann date (mm/dd/yy)
3660-C1U	3x2	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	ES52	None	Pro 32	06/05/12

●3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>							<b>Preloaded operating system</b>				
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>							Genuine Windows® 7 Professional 32				
Implementation	Processor in LGA1155 socket							<b>Ready to install applications</b> (only some listed)				
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets							<ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul>				
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>							<b>Preloaded applications</b> (only some listed)				
Disk	SATA 3.0Gb/s 7200 rpm							<ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Power Manager</li> <li>● ThinkVantage Communication Utility</li> <li>● View Management Utility</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset											
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar											
eSATA port	None											
Media reader	None											
Chipset	<b>Intel H61 Express Chipset</b>											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
PCIe WLAN <sup>†</sup>	None											
Bluetooth	None											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Intel AMT	None											
Modem	None											
Security chip	None											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Floor Stand	System floor stand for vertical orientation											
Power supply	240 watts, autosensing, 85% PSU											
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 13.2" W X 15.0" D X 3.9" H</li> <li>● 335mm W X 382mm D X 101mm H</li> <li>● 14.6 lb (6.6 kg) in maximum configuration</li> <li>● Highlighted optical drive button for easy access</li> </ul>							<b>Security</b>				
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk							<ul style="list-style-type: none"> <li>● One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Serial port I/O control</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>				
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1							EPEAT™ Gold rating ENERGY STAR® 5.2-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant				
								Supports ThinkVantage Technologies				
								For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet				
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											



See footnotes for important warranty information  
US model announced June 5, 2012

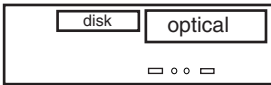
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(MOSI1-10) July 2012

# ThinkCentre M72e Small (3660) - ES 5.2 (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
3660-D3U	3x2	G645	2GBx1 1600MHz	250G 7200	DVD±RW	Intel HD	None	Stand	ES52	None	Win8 Pro64	10/23/12
3660-D4U	3x2	G870	4GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	ES52	None	Win8 Pro64	10/23/12
3660-E2U	3x2	i3-2130	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2000	None	Stand	ES52	None	Win7 Pro64	10/23/12
3660-E3U	3x2	G2020	4GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	ES52	None	Win7 Pro64	01/22/13

•3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>								<b>Preloaded operating system</b>			
Processor	<b>Intel® Pentium® G645 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Pentium G2020 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Pentium G870 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core™ i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache)</b> , integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket								Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit			
Implementation	Processor in LGA1155 socket								<b>Preloaded applications</b> (only some listed)			
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets; <i>System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller</i>								<b>- Windows 7 models</b> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• Lenovo® Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Windows Live™ Essentials</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 2000</b> in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>								<b>- Windows 8 models</b> <ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul>			
Disk	SATA 3.0Gb/s 7200 rpm								<b>- All models</b>			
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive								<ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>			
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset											
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar											
eSATA port	None											
Media reader	None											
Chipset	<b>Intel H61 Express Chipset</b>											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
PCIe WLAN <sup>†</sup>	None											
Bluetooth	None											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Intel AMT	None											
Modem	None											
Security chip	None								<b>Security</b>			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo								<ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Floor Stand	System floor stand for vertical orientation											
Power supply	240 watts, autosensing, 85% PSU											
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.2" W X 15.0" D X 3.9" H</li> <li>• 335mm W X 382mm D X 101mm H</li> <li>• 14.6 lb (6.6 kg) in maximum configuration</li> <li>• Highlighted optical drive button for easy access</li> </ul>											
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk											
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1											
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available								EPEAT™ Gold rating ENERGY STAR® 5.2-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information  
 US models announced October 23, 2012 or January 22, 2013

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 (MOSI1-26) February 2013



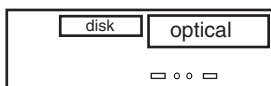
# ThinkCentre M72e Small (3660) - ES 5.2 (Win 8) - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
3660-D5U	3x2	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	ES52	None	Win8 Pro64	10/23/12
3660-D6U	3x2	i3-3240	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	ES52	None	Win8 Pro64	10/23/12
3660-D7U	3x2	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	ES52	None	Win8 Pro64	10/23/12
3660-D8U	3x2	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	HD 2500	None	Stand	ES52	None	Win8 Pro64	10/23/12
3660-D9U	3x2	i7-3770	4GBx1 1600MHz	1TB 7200	DVD±RW	HD 7450	None	Stand	ES52	None	Win8 Pro64	10/23/12

●3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>										
Processor	<p><b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller</p> <p><b>Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller</p> <p><b>Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Processor in LGA1155 socket</p>										
Implementation	Processor in LGA1155 socket										
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets										
Graphics	<p><i>Some:</i> <b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11 one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</p> <p><i>Some:</i> <b>AMD Radeon™ HD 7450</b>, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort™, 25 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors</p>										
Disk	SATA 3.0Gb/s 7200 rpm										
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset										
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar										
eSATA port	None										
Media reader	None										
Chipset	<b>Intel H61 Express Chipset</b>										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)										
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec										
PCIe WLAN <sup>4</sup>	None										
Bluetooth	None										
Speaker	Internal speaker for business audio										
IEEE 1394	None										
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®										
Intel AMT	None										
Modem	None										
Security chip	None										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Floor Stand	System floor stand for vertical orientation										
Power supply	240 watts, autosensing, 85% PSU										
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 13.2" W X 15.0" D X 3.9" H</li> <li>● 335mm W X 382mm D X 101mm H</li> <li>● 14.6 lb (6.6 kg) in maximum configuration</li> <li>● Highlighted optical drive button for easy access</li> </ul>										
Bay	<p>Bay 1: 5.25", 1.6" high, access, std optical</p> <p>Bay 2: 3.5", 1" high, no access, std disk</p>										
Slot	<p>Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max)</p> <p>Slot 2: Low Profile, PCIe 2.0 x1</p> <p>Slot 3: Low Profile, PCIe 2.0 x1</p>										
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										
	<p><b>Preloaded operating system</b></p> <p>Windows® 8 Pro 64-bit</p> <p><b>Preloaded applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>● ThinkVantage® System Update</li> <li>● View Management Utility</li> <li>● Lenovo® Support</li> <li>● Lenovo Companion</li> <li>● Lenovo Cloud Storage</li> <li>● Lenovo QuickLaunch</li> <li>● Lenovo Solution Center</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Norton Studio</li> <li>● Intel AppUp®</li> <li>● AccuWeather</li> <li>● PC Device Stage</li> <li>● Evernote™</li> <li>● Skype™</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> </ul>										
	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>● One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Serial port I/O control</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>										
	<p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 5.2-compliant</p> <p>Cisco EnergyWise compatible</p> <p>GREENGUARD® certified</p> <p>RoHS-compliant</p>										
	Supports ThinkVantage Technologies										
	For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet										



See footnotes for important warranty information  
US models announced October 23, 2012


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(MOSI1-27) October 2012

# ThinkCentre M72e Small (3664) - ES 5.2 (GMP) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global (G) GMP (P)	Win7 preload	Ann date (mm/dd/yy)
3664-A1U	3x2	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	Switch	Stand	ES52	G P	Pro 64	06/05/12
3664-A2U	3x2	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	ES52	G P	Pro 64	06/19/12
3664-A4U	3x2	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	Switch	Stand	ES52	G P	Pro 64	08/21/12
3664-A6U	3x2	i3-3240	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	Switch	Stand	ES52	G P	Pro 64	05/28/13

●Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>								<b>Preloaded operating system</b>			
Processor	<p><b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller</p> <p><b>Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller</p> <p><b>Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p>								<p>Genuine Windows® 7 Professional 64</p> <p><b>Ready to install applications (only some listed)</b></p> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <p><b>Preloaded applications (only some listed)</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Implementation	Processor in LGA1155 socket											
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets											
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>											
Disk	SATA 3.0Gb/s 7200 rpm											
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset											
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar											
eSATA port	None											
Media reader	None											
Chipset	<b>Intel H61 Express Chipset</b>											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
PCIe WLAN <sup>†</sup>	None											
Bluetooth	None											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Intel AMT	None											
Modem	None											
Security chip	None								<b>Security</b>			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo								<ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• <i>Chassis intrusion switch on selected model(s)</i></li> </ul>			
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Floor Stand	System floor stand for vertical orientation											
Power supply	240 watts, autosensing, 85% PSU											
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.2" W X 15.0" D X 3.9" H</li> <li>• 335mm W X 382mm D X 101mm H</li> <li>• 14.6 lb (6.6 kg) in maximum configuration</li> <li>• Highlighted optical drive button for easy access</li> </ul>											
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk											
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1											
									EPEAT™ Gold rating ENERGY STAR® 5.2-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
									Supports ThinkVantage Technologies			
									For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											

See footnotes for important warranty information

US models announced June 5, 2012, June 19, 2012, August 21, 2012, or May 28, 2013

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(MOS11-11) June 2013

# ThinkCentre M72e Small (3664) - ES 5.2 (GMP) - Win 8 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
3664-A3U	3x2	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	Switch	Stand	ES52	G P	Win8 Pro64	10/23/12
3664-A5U	3x2	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	ES52	G P	Win7 Pro64	10/23/12

•Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>										
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>										
Implementation	Processor in LGA1155 socket										
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets										
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>										
Disk	SATA 3.0Gb/s 7200 rpm										
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset										
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar										
eSATA port	None										
Media reader	None										
Chipset	<b>Intel H61 Express Chipset</b>										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)										
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec										
PCIe WLAN <sup>4</sup>	None										
Bluetooth	None										
Speaker	Internal speaker for business audio										
IEEE 1394	None										
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®										
Intel AMT	None										
Modem	None										
Security chip	None										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Floor Stand	System floor stand for vertical orientation										
Power supply	240 watts, autosensing, 85% PSU										
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.2" W X 15.0" D X 3.9" H</li> <li>• 335mm W X 382mm D X 101mm H</li> <li>• 14.6 lb (6.6 kg) in maximum configuration</li> <li>• Highlighted optical drive button for easy access</li> </ul>										
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk										
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1										
											
	<b>Preloaded operating system</b> <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 8 Pro 64-bit <b>Preloaded applications (only some listed)</b> <b>- Windows 7 models</b> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• Lenovo® Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Windows Live™ Essentials</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul> <b>- Windows 8 models</b> <ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul> <b>- All models</b> <ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>										
	EPEAT™ Gold rating ENERGY STAR® 5.2-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies										
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet										

See footnotes for important warranty information  
US models announced October 23, 2012

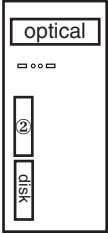
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(MOSI1-28) October 2012

# ThinkCentre M72e Tower (3597) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date (mm/dd/yy)
3597-A2U	3x3	G630	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	Intel HD	None	None	None	Pro 32	06/05/12
3597-C4U	3x3	i3-2120	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2000	None	None	None	Pro 64	06/05/12
3597-C5U	3x3	G850	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	None	None	Pro 64	06/05/12
3597-E4U	3x3	G630	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	Intel HD	None	None	None	Pro 64	07/10/12

●3-year limited warranty

Positioning Processor	<i>Essential business features, exceptional value</i> <b>Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Pentium G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket						<b>Preloaded operating system</b> <i>Some:</i> Genuine Windows® 7 Professional 32 <i>Some:</i> Genuine Windows 7 Professional 64 <b>Ready to install applications</b> (only some listed) ● Rescue and Recovery™ ● Password Manager					
Implementation Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets; <i>System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller</i>						<b>Preloaded applications</b> (only some listed) ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Power Manager ● ThinkVantage Communication Utility ● View Management Utility ● Lenovo Solution Center ● Lenovo Message Center Plus ● Lenovo SimpleTap ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ for Windows ● Windows Live™ Essentials ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now™ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW)					
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 2000</b> in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>											
Disk	SATA 3.0Gb/s 7200 rpm											
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset											
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar											
eSATA port	None											
Media reader	None											
Chipset	<b>Intel H61 Express Chipset</b>											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
PCIe WLAN <sup>4</sup>	None											
Bluetooth	None											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Intel AMT	None											
Modem	None											
Security chip	None											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Power supply	280 watts with variable speed fan, manual switch											
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 6.3" W X 16.6" D X 15.3" H (with handle)</li> <li>● 160mm W X 422mm D X 388mm H</li> <li>● 20.7 lb (9.4 kg) in maximum configuration</li> <li>● Handle on top front</li> <li>● Highlighted optical drive button for easy access</li> </ul>											
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk Bay 3: 3.5", 1" high, no access, std disk											
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1											
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available						<b>Security</b> ● One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) ● Power-on password ● Administrator password ● Hard disk password ● Boot sequence control ● Boot without keyboard and mouse ● Serial port I/O control ● Individual USB port disablement ● Chassis intrusion switch on selected model(s)  Cisco EnergyWise compatible RoHS-compliant  Supports ThinkVantage Technologies  For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet					

See footnotes for important warranty information  
US models announced June 5 or July 10, 2012

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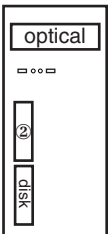


# ThinkCentre M72e Tower (3597) - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date (mm/dd/yy)
3597-D4U	3x3	i5-3570	4GBx1 1600MHz	250G 7200	Bay	DVD±RW	HD 2500	None	None	None	Pro 32	06/05/12
3597-C3U	3x3	i5-3550	4GBx2 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Pro 64	06/05/12
3597-E3U	3x3	i5-3470	2GBx2 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Pro 64	07/10/12
3597-E2U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Pro 64	07/10/12
3597-E9U	3x3	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Pro 64	09/04/12

●3-year limited warranty

Positioning Processor	<i>Essential business features, exceptional value</i>		<b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller		<b>Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology		<b>Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology		<b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology		Processor in LGA1155 socket	
Implementation	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets											
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets											
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>											
Disk	SATA 3.0Gb/s 7200 rpm											
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset											
Onboard SATA eSATA port	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar											
Media reader	None											
Chipset	<b>Intel H61 Express Chipset</b>											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
PCIe WLAN <sup>†</sup>	None											
Bluetooth	None											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Intel AMT	None											
Modem	None											
Security chip	None											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Power supply	280 watts with variable speed fan, manual switch											
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 6.3" W X 16.6" D X 15.3" H (with handle)</li> <li>● 160mm W X 422mm D X 388mm H</li> <li>● 20.7 lb (9.4 kg) in maximum configuration</li> <li>● Handle on top front</li> <li>● Highlighted optical drive button for easy access</li> </ul>											
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk Bay 3: 3.5", 1" high, no access, std disk											
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1											
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											<b>Preloaded operating system</b> <i>Some:</i> Genuine Windows® 7 Professional 32 <i>Some:</i> Genuine Windows 7 Professional 64 <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Power Manager</li> <li>● ThinkVantage Communication Utility</li> <li>● View Management Utility</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>
												<b>Security</b> <ul style="list-style-type: none"> <li>● One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Serial port I/O control</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>
												Cisco EnergyWise compatible RoHS-compliant
												Supports ThinkVantage Technologies
												For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
 US models announced June 5, July 10, or September 4, 2012

# ThinkCentre M72e Tower (3597) - Windows 8 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
3597-F4U	3x3	i3-2130	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2000	None	None	None	Win7 Pro64	10/23/12
3597-F5U	3x3	i5-3570	4GBx2 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Win7 Pro64	10/23/12
3597-F6U	3x3	G870	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	None	None	Win7 Pro64	10/23/12
3597-F7U	3x3	i5-3470	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Win7 Pro64	10/23/12
3597-F8U	3x3	G640	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	Intel HD	None	None	None	Win7 Pro64	10/23/12
3597-F9U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Win7 Pro64	10/23/12
3597-G1U	3x3	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Win7 Pro64	10/23/12
3597-G2U	3x3	G2120	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	None	None	Win7 Pro64	12/04/12

Positioning Processor	<p><i>Essential business features, exceptional value</i></p> <p><b>Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache)</b>, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Pentium G870 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache)</b>, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Pentium G2120 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache)</b>, integrated Intel HD Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core™ i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache)</b>, integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b>, integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller</p> <p><b>Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache)</b>, Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache)</b>, Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Processor in LGA1155 socket</p>	<p><b>Preloaded operating system</b></p> <p>Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</p> <p><b>Ready to install applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <p><b>Preloaded applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• View Management Utility</li> <li>• Lenovo® Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>
Implementation Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets; <i>System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller</i>	
Graphics	<b>Intel HD Graphics, Intel HD Graphics 2000, or Intel HD Graphics 2500</b> in processor, uses main memory, HDCP, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>	
Disk	SATA 3.0Gb/s 7200 rpm	
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset	
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar	
eSATA port	None	
Media reader	None	
Chipset	<b>Intel H61 Express Chipset</b>	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
PCIe WLAN <sup>†</sup>	None	
Bluetooth	None	
Speaker	Internal speaker for business audio	
IEEE 1394	None	
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	
Intel AMT	None	
Modem	None	
Security chip	None	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	280 watts with variable speed fan, manual switch	
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.3" W X 16.6" D X 15.3" H (with handle)</li> <li>• 160mm W X 422mm D X 388mm H</li> <li>• 20.7 lb (9.4 kg) in maximum configuration</li> <li>• Handle on top front</li> <li>• Highlighted optical drive button for easy access</li> </ul>	
Bay	<p>Bay 1: 5.25", 1.6" high, access, std optical</p> <p>Bay 2: 3.5", 1" high, no access, opt disk</p> <p>Bay 3: 3.5", 1" high, no access, std disk</p>	
Slot	<p>Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max)</p> <p>Slot 2: half-length, full-height, PCIe 2.0 x1</p> <p>Slot 3: half-length, full-height, PCIe 2.0 x1</p>	
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul> <p>Cisco EnergyWise compatible RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet</p>

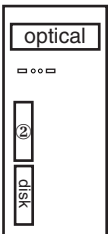
See footnotes for important warranty information  
US models announced October 23 or December 4, 2012

# ThinkCentre M72e Tower (3655) - ES 5.2 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date (mm/dd/yy)
3655-B6U	3x3	i3-2120	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2000	None	ES52	None	Pro 64	06/05/12
3655-D3U	3x3	G860	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	ES52	None	Pro 64	07/10/12

●3-year limited warranty

Positioning Processor	<i>Essential business features, exceptional value</i> <b>Intel® Pentium® G860 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket						<b>Preloaded operating system</b> Genuine Windows® 7 Professional 64 <b>Ready to install applications</b> (only some listed) ● Rescue and Recovery™ ● Password Manager					
Implementation	Processor in LGA1155 socket						<b>Preloaded applications</b> (only some listed) ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Power Manager ● ThinkVantage Communication Utility ● View Management Utility ● Lenovo Solution Center ● Lenovo Message Center Plus ● Lenovo SimpleTap ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ for Windows ● Windows Live™ Essentials ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now™ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW)					
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets; <i>System automatically clocks down for processors with 1333MHz DDR3 memory controller</i>											
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 2000</b> in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>											
Disk	SATA 3.0Gb/s 7200 rpm											
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset											
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar											
eSATA port	None											
Media reader	None											
Chipset	<b>Intel H61 Express Chipset</b>											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
PCIe WLAN <sup>4</sup>	None											
Bluetooth	None											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Intel AMT	None											
Modem	None											
Security chip	None											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Power supply	280 watts with variable speed fan, autosensing, 85% PSU											
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 6.3" W X 16.6" D X 15.3" H (with handle)</li> <li>● 160mm W X 422mm D X 388mm H</li> <li>● 20.7 lb (9.4 kg) in maximum configuration</li> <li>● Handle on top front</li> <li>● Highlighted optical drive button for easy access</li> </ul>											
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk Bay 3: 3.5", 1" high, no access, std disk											
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1											
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available						<b>Security</b> <ul style="list-style-type: none"> <li>● One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Serial port I/O control</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>					
							EPEAT™ Gold rating ENERGY STAR® 5.2-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies					
							For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet					

See footnotes for important warranty information  
US models announced June 5 or July 10, 2012

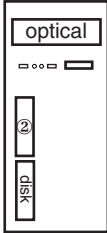
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(MOS11-16) November 2012

# ThinkCentre M72e Tower (3655) - ES 5.2 - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Media reader	Chassis intr switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date (mm/dd/yy)
3655-C1U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	ES52	None	Pro 32	06/05/12
3655-D2U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	ES52	None	Pro 64	07/10/12
3655-F2U	3x4	i7-3770	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	HD 4000	Media	Switch	ES52	None	Pro 64	11/06/12

●3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>		<p><b>Preloaded operating system</b></p> <p><i>Some:</i> Genuine Windows® 7 Professional 32 <i>Some:</i> Genuine Windows 7 Professional 64</p> <p><b>Ready to install applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul> <p><b>Preloaded applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Power Manager</li> <li>● ThinkVantage Communication Utility</li> <li>● View Management Utility</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>
Processor	Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology		
Implementation	Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket		
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets		
Graphics	Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>		
Disk	SATA 3.0Gb/s 7200 rpm		
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset		
Onboard SATA eSATA port	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar		
Media reader	None		
Chipset	Some: 9-in-1 media reader, internal USB 2.0		
Chipset	<b>Intel H61 Express Chipset</b>		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
PCIe WLAN <sup>†</sup>	None		
Bluetooth	None		
Speaker	Internal speaker for business audio		
IEEE 1394	None		
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®		
Intel AMT	None		
Modem	None		
Security chip	None		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo		
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo		
Power supply	280 watts with variable speed fan, autosensing, 85% PSU		
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 6.3" W X 16.6" D X 15.3" H (with handle)</li> <li>● 160mm W X 422mm D X 388mm H</li> <li>● 20.7 lb (9.4 kg) in maximum configuration</li> <li>● Handle on top front</li> <li>● Highlighted optical drive button for easy access</li> </ul>		
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", 1" high, no access, std disk Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with media reader installed		
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1		
			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available		
	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>● One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Serial port I/O control</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul> <p>EPEAT™ Gold rating ENERGY STAR® 5.2-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet</p>		

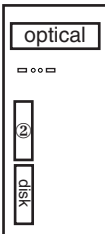


# ThinkCentre M72e Tower (3655) - ES 5.2 (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
3655-D8U	3x3	G645	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	Intel HD	None	ES52	None	Win8 Pro64	10/23/12
3655-D9U	3x3	G870	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	ES52	None	Win8 Pro64	10/23/12
3655-E8U	3x3	i3-2130	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2000	None	ES52	None	Win7 Pro64	10/23/12
3655-F1U	3x3	G870	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	ES52	None	Win7 Pro64	10/23/12
3655-F3U	3x3	G2020	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	ES52	None	Win7 Pro64	01/22/13

●3-year limited warranty

Positioning Processor	<p><i>Essential business features, exceptional value</i></p> <p><b>Intel® Pentium® G645 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache)</b>, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Pentium G2020 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache)</b>, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Pentium G870 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache)</b>, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core™ i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache)</b>, integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Processor in LGA1155 socket</p>	<p><b>Preloaded operating system</b></p> <p>Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</p> <p>Some: Windows 8 Pro 64-bit</p> <p><b>Preloaded applications (only some listed)</b></p> <p><b>- Windows 7 models</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• Lenovo® Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Windows Live™ Essentials</li> <li>• Core!® Burn.Now™ (DVD±RW)</li> <li>• Core! DVD MovieFactory® (DVD±RW)</li> </ul> <p><b>- Windows 8 models</b></p> <ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul> <p><b>- All models</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>
Implementation		
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets; <i>System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller</i>	
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 2000</b> in processor, uses main memory, HDCP, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>	
Disk	SATA 3.0Gb/s 7200 rpm	
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset	
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar	
eSATA port	None	
Media reader	None	
Chipset	<b>Intel H61 Express Chipset</b>	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
PCIe WLAN <sup>4</sup>	None	
Bluetooth	None	
Speaker	Internal speaker for business audio	
IEEE 1394	None	
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	
Intel AMT	None	
Modem	None	
Security chip	None	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	280 watts with variable speed fan, autosensing, 85% PSU	
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.3" W X 16.6" D X 15.3" H (with handle)</li> <li>• 160mm W X 422mm D X 388mm H</li> <li>• 20.7 lb (9.4 kg) in maximum configuration</li> <li>• Handle on top front</li> <li>• Highlighted optical drive button for easy access</li> </ul>	
Bay	<p>Bay 1: 5.25", 1.6" high, access, std optical</p> <p>Bay 2: 3.5", 1" high, no access, opt disk</p> <p>Bay 3: 3.5", 1" high, no access, std disk</p>	
Slot	<p>Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max)</p> <p>Slot 2: half-length, full-height, PCIe 2.0 x1</p> <p>Slot 3: half-length, full-height, PCIe 2.0 x1</p>	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul> <p>EPEAT™ Gold rating ENERGY STAR® 5.2-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet</p>

See footnotes for important warranty information  
US models announced October 23, 2012 or January 22, 2013

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(MOSI1-30) February 2013

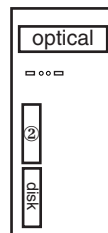
# ThinkCentre M72e Tower (3655) - ES 5.2 (Win 8) - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
3655-E5U	3x3	i7-3770	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	HD 7450	None	ES52	None	Win8 Pro64	10/23/12
3655-E1U	3x3	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	ES52	None	Win8 Pro64	10/23/12
3655-E2U	3x3	i3-3240	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	ES52	None	Win8 Pro64	10/23/12
3655-E3U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	ES52	None	Win8 Pro64	10/23/12
3655-E4U	3x3	i5-3570	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	HD 2500	None	ES52	None	Win8 Pro64	10/23/12
3655-E9U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	ES52	None	Win7 Pro64	10/23/12

•3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>		<b>Preloaded operating system</b> <i>Some:</i> Windows <sup>®</sup> 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 8 Pro 64-bit <b>Preloaded applications</b> (only some listed) <b>- Windows 7 models</b> <ul style="list-style-type: none"> <li>ThinkVantage<sup>®</sup> Product Recovery</li> <li>ThinkVantage Power Manager</li> <li>ThinkVantage Communication Utility</li> <li>Lenovo<sup>®</sup> Message Center Plus</li> <li>Lenovo SimpleTap</li> <li>Adobe<sup>®</sup> Reader<sup>™</sup></li> <li>Windows Live<sup>™</sup> Essentials</li> <li>Corel<sup>®</sup> Burn.Now<sup>™</sup> (DVD±RW)</li> <li>Corel DVD MovieFactory<sup>®</sup> (DVD±RW)</li> </ul> <b>- Windows 8 models</b> <ul style="list-style-type: none"> <li>Lenovo Support</li> <li>Lenovo Companion</li> <li>Lenovo Cloud Storage</li> <li>Norton<sup>™</sup> Studio</li> <li>AccuWeather</li> <li>Evernote<sup>®</sup></li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> </ul> <b>- All models</b> <ul style="list-style-type: none"> <li>ThinkVantage System Update</li> <li>Lenovo Solution Center</li> <li>View Management Utility</li> <li>Norton Internet Security (30 days of virus definitions)</li> <li>Microsoft<sup>®</sup> Office preloaded; purchase a product key to activate</li> <li>Skype<sup>™</sup></li> </ul>
Processor	<b>Intel<sup>®</sup> Core<sup>™</sup> i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel<sup>®</sup> Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache)</b> , integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel<sup>®</sup> Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache)</b> , Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel<sup>®</sup> Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache)</b> , Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel<sup>®</sup> Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache)</b> , Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket		
Implementation	Processor in LGA1155 socket		<b>Security</b> <ul style="list-style-type: none"> <li>One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington<sup>®</sup> MicroSaver<sup>®</sup> cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets		
Graphics	<i>Some:</i> <b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX <sup>®</sup> 11 one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz <i>Some:</i> <b>AMD Radeon<sup>™</sup> HD 7450</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express <sup>®</sup> 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort <sup>™</sup> , 25 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors		
Disk	SATA 3.0Gb/s 7200 rpm		
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset		
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar		
eSATA port	None		
Media reader	None		
Chipset	<b>Intel H61 Express Chipset</b>		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)		
Audio	High Definition (HD) Audio, Realtek <sup>®</sup> ALC662 codec		
PCIe WLAN <sup>†</sup>	None		
Bluetooth	None		
Speaker	Internal speaker for business audio		
IEEE 1394	None		
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN <sup>®</sup>		
Intel AMT	None		
Modem	None		
Security chip	None		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo <sup>®</sup> logo		
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo		
Power supply	280 watts with variable speed fan, autosensing, 85% PSU		
Machine	<ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>6.3" W X 16.6" D X 15.3" H (with handle)</li> <li>160mm W X 422mm D X 388mm H</li> <li>20.7 lb (9.4 kg) in maximum configuration</li> <li>Handle on top front</li> <li>Highlighted optical drive button for easy access</li> </ul>		
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk Bay 3: 3.5", 1" high, no access, std disk		
Slot	Slot 1: half-length, full-height, PCI Express <sup>®</sup> 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1		
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available		



See footnotes for important warranty information  
 US models announced October 23, 2012

# ThinkCentre M72e Tower (3662) - ES 5.2 (GMP) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY Global (G) STAR 5.2	GMP (P)	Win7 preload	Ann date (mm/dd/yy)
3662-A1U	3x3	i5-3550	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	Switch	ES52	G P	Pro 64	06/05/12
3662-A2U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	ES52	G P	Pro 64	06/19/12
3662-A4U	3x3	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	Switch	ES52	G P	Pro 64	08/21/12
3662-A6U	3x3	i3-3240	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	Switch	ES52	G P	Pro 64	05/28/13

• Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning Processor	<p><i>Essential business features, exceptional value</i></p> <p><b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller</p> <p><b>Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller</p> <p><b>Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket</p>							<p><b>Preloaded operating system</b></p> <p>Genuine Windows® 7 Professional 64</p> <p><b>Ready to install applications (only some listed)</b></p> <ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul> <p><b>Preloaded applications (only some listed)</b></p> <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Power Manager</li> <li>ThinkVantage Communication Utility</li> <li>View Management Utility</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Lenovo SimpleTap</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™ for Windows</li> <li>Windows Live™ Essentials</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Corel® Burn.Now™ (DVD±RW)</li> <li>Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
Implementation												
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets											
Graphics	<p><b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display;</p> <p><i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i></p>											
Disk	SATA 3.0Gb/s 7200 rpm											
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset											
Onboard SATA eSATA port	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar											
Media reader	None											
Chipset	<b>Intel H61 Express Chipset</b>											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
PCIe WLAN <sup>†</sup>	None											
Bluetooth	None											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Intel AMT	None											
Modem	None											
Security chip	None											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Power supply	280 watts with variable speed fan, autosensing, 85% PSU											
Machine	<ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>6.3" W X 16.6" D X 15.3" H (with handle)</li> <li>160mm W X 422mm D X 388mm H</li> <li>20.7 lb (9.4 kg) in maximum configuration</li> <li>Handle on top front</li> <li>Highlighted optical drive button for easy access</li> </ul>											
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk Bay 3: 3.5", 1" high, no access, std disk											
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1											
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available							<p><b>Security</b></p> <ul style="list-style-type: none"> <li>One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul> <p>EPEAT™ Gold rating            ENERGY STAR® 5.2-compliant            Cisco EnergyWise compatible            GREENGUARD® certified            RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to O-M72E sheet;            For Lenovo service upgrade options, please go to S-TC sheet</p>				

See footnotes for important warranty information

US models announced June 5, 2012, June 19, 2012, August 21, 2012, or May 28, 2013

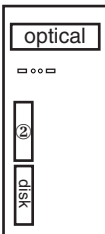
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(MOSI1-18) June 2013



# ThinkCentre M72e Tower (3662) - ES 5.2 (GMP) - Win 8 - withdrawn Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.2	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
3662-A3U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	Switch	ES52	G P	Win8 Pro64	10/23/12
3662-A5U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	ES52	G P	Win7 Pro64	10/23/12

•Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>							<b>Preloaded operating system</b>				
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>							Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit				
Implementation	Processor in LGA1155 socket							Some: Windows 8 Pro 64-bit				
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets							<b>Preloaded applications (only some listed)</b>				
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>							<b>- Windows 7 models</b>				
Disk	SATA 3.0Gb/s 7200 rpm							<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• Lenovo® Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Windows Live™ Essentials</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive							<b>- Windows 8 models</b>				
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset							<ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul>				
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar							<b>- All models</b>				
eSATA port	None							<ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>				
Media reader	None											
Chipset	<b>Intel H61 Express Chipset</b>											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
PCIe WLAN <sup>4</sup>	None											
Bluetooth	None											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Intel AMT	None											
Modem	None											
Security chip	None											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Power supply	280 watts with variable speed fan, autosenesing, 85% PSU											
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.3" W X 16.6" D X 15.3" H (with handle)</li> <li>• 160mm W X 422mm D X 388mm H</li> <li>• 20.7 lb (9.4 kg) in maximum configuration</li> <li>• Handle on top front</li> <li>• Highlighted optical drive button for easy access</li> </ul>											
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk Bay 3: 3.5", 1" high, no access, std disk											
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1											
												
								<b>Security</b>				
								<ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>				
								EPEAT™ Gold rating				
								ENERGY STAR® 5.2-compliant				
								Cisco EnergyWise compatible				
								GREENGUARD® certified				
								RoHS-compliant				
								Supports ThinkVantage Technologies				
								For compatible accessories, please go to O-M72E sheet; For Lenovo service upgrade options, please go to S-TC sheet				
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											



**Memory**

*Tiny 4004/3264/3267 use notebook memory:*

2GB PC3-12800 DDR3 SODIMM	0A65722	ann 06/05/12
4GB PC3-12800 DDR3 SODIMM	0A65723	ann 06/05/12
8GB PC3-12800 DDR3 SODIMM	0A65724	ann 06/05/12

*Small 0967/3598/3660/3664, and*

*Tower 0958/3675/3597/3655/3662 use desktop memory:*

2GB PC3-12800 DDR3 UDIMM	0A65728	ann 06/05/12
4GB PC3-12800 DDR3 UDIMM	0A65729	ann 06/05/12
8GB PC3-12800 DDR3 UDIMM	0A65730	ann 06/05/12

More information at

[www.lenovo.com/support/desktopmemorycompatibility](http://www.lenovo.com/support/desktopmemorycompatibility)

**Optical**

*Small and Tower support:*

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max <sup>4</sup>	41N5618	ann 09/26/06
Lenovo® Super Multi-Burner SATA Drive	0A65618	ann 08/23/11

**Storage and removable storage**

*Tiny support:*

320GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD	0A65635	ann 06/05/12
500GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD	0A65632	ann 06/05/12

*Small and Tower support:*

500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	ann 11/06/07
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	ann 08/19/08
180GB Solid State Drive	0B47308	ann 01/29/13

*All:*

USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 3.0 Secure 500GB Hard Drive	0A65619	ann 11/29/11
USB 3.0 Secure 750GB Hard Drive	0A65616	ann 11/29/11
USB 3.0 Secure 1TB Hard Drive	0A65621	ann 08/28/12
Slim USB Portable DVD Burner	0A33988	ann 06/14/11

**Graphics**

*Small 0967/3598/3660/3664 support Low Profile:*

NVIDIA NVS 510 2GB Graphics Card by Lenovo <sup>67</sup>	0B47077	ann 01/29/13
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*Tower 0958/3675/3597/3655/3662 support 60 watts max:*

NVIDIA NVS 510 2GB Graphics Card by Lenovo <sup>67</sup>	0B47077	ann 01/29/13
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<sup>67</sup> Simultaneously use the graphic card monitor ports along with the systems integrated monitor ports when Multi-Monitor Support is enabled in BIOS Setup.

More information at [www.lenovo.com/support/graphiccards](http://www.lenovo.com/support/graphiccards)

**Keyboard**

Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
UltraSlim Plus Wireless Keyboard and Mouse <sup>52</sup>	0A34032	ann 04/05/11
ThinkPad® USB Keyboard with TrackPoint	55Y9003	ann 08/18/09
Lenovo USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09

<sup>52</sup> Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at [www.lenovo.com/support/keyboards](http://www.lenovo.com/support/keyboards)

**Mouse**

Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo ScrollPoint® Mouse(USB, Optical)	31P7405	ann 08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann 06/04/02
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse <sup>52</sup>	0A36188	ann 12/20/11
ThinkPad USB Laser Mouse	57Y4635	ann 12/15/09

More information at [www.lenovo.com/support/mice](http://www.lenovo.com/support/mice)

**Modem**

USB 2.0 Lenovo Modem	43R1814	ann 02/26/08
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**Multimedia**

ThinkPad In-Ear Headphones with mic <sup>60</sup>	57Y4488	ann 01/07/10
Lenovo Mini Speakers M220	55Y2033	ann 01/07/10
Lenovo Speakers M0520 (black)	57Y6360	ann 02/08/11
Lenovo Speakers M0520 (red)	57Y6361	ann 02/08/11
Lenovo Headset P550	55Y2065	
Lenovo Headset P950 (black)	57Y6605	ann 02/08/11

<sup>60</sup> Has a 1.2 meter (3.9-foot) cable. Best when systems are in close proximity. Example: SFF placed on a desk.

**Security**

Kensington® MicroSaver® Cable Lock <sup>56</sup>	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock <sup>56</sup>	45K1620	ann 09/30/08
Lenovo Security Cable Lock <sup>56</sup>	57Y4303	ann 08/24/10
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06

<sup>56</sup> Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

**Under Desk Mount**

*Tiny support:*

ThinkCentre Tiny Under Desk Mount Bracket	0B47097	ann 08/07/12
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**Monitors**

ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D) <sup>69</sup>	2448MB6	ann 09/13/11
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	ann 10/20/09
ThinkVision LT2323p Wide 23" (VGA, DP, DVI-D) <sup>69</sup>	3024HC1	ann 05/01/12

<sup>69</sup> DisplayPort cable is not included; use optional DisplayPort to DisplayPort Monitor Cable (0A36537).

More information at [www.lenovo.com/support/monitors](http://www.lenovo.com/support/monitors)

**Monitor Accessories<sup>46</sup>**

*Tiny support:*

DisplayPort™ to Single-link DVI-D Cable	45J7915	ann 08/05/08
DisplayPort to VGA Monitor Cable	57Y4393	ann 08/04/09
DisplayPort to DisplayPort Monitor Cable	0A36537	ann 09/13/11

*Small and Tower support:*

Lenovo DVI to DVI Monitor Cable	0B47071	
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*All:*

Lenovo USB 3.0 to DVI/VGA Monitor Adapter	0B47072	ann 08/14/12
Lenovo USB Soundbar	0A36190	ann 05/01/12
Kensington MicroSaver Cable Lock <sup>56</sup>	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock <sup>56</sup>	45K1620	ann 09/30/08
Lenovo Security Cable Lock <sup>56</sup>	57Y4303	ann 08/24/10
ThinkCentre Extend Arm	57Y4352	ann 07/06/10

<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

For more information on accessories:

[www.lenovo.com/accessories](http://www.lenovo.com/accessories)

Purchase Lenovo accessories

[www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)

Product specifications on Lenovo Support

[www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)

Option Compatibility Matrix (OCM) and accessory brochures

[www.lenovoquickpick.com](http://www.lenovoquickpick.com)

An Options Compatibility Configurator for Lenovo systems



Lenovo ThinkCentre M72z with Frame Stand



Lenovo ThinkCentre M72z with Frame Stand



Lenovo ThinkCentre M72z with Monitor Stand



Lenovo ThinkCentre M72z with Monitor Stand



Dual Independent Display with Optional Lenovo ThinkVision Monitor

# ThinkCentre M72z (3543) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/Mouse Global	Preload	Ann date (mm/dd/yy)
3543-B6U	i3-3220	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	Intel 105	Media	None	None	None	Frame	USB	None	Win7 Pro64 03/12/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	<i>Mainstream All-In-One PC for the enterprise</i>											<b>Preloaded operating system<sup>20</sup></b>		
Processor	<b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology											Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit		
Implementation	Processor in LGA1155 socket											<b>Ready to install applications</b> (only some listed)		
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> <li>• Business-in-a-Box</li> </ul>		
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>											<b>Preloaded applications</b> (only some listed)		
DP dongle	None											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> <li>• InterVideo WinDVD® (DVD, DVD±RW)</li> </ul>		
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio													
Multi-touch	None													
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off													
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off													
Disk	Hard Disk Drive / SATA 3.0Gb/s, 3.5" Wide, 7200 rpm													
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable													
Media reader	7-in-1 Single Slot SD media reader													
Chipset	<b>Intel H61 Express Chipset</b>													
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)													
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
PCIe Mini Card	One PCI Express® Mini Card slot													
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1													
Bluetooth	None													
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB													
Audio	High Definition (HD) Audio, Realtek ALC269Q													
Speaker	Two internal stereo speakers (2watt x 2)													
Intel AMT	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	150 watts, autosensing, 85% PSU													
Machine	<i>Model(s) with Non multi-touch, Frame stand:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 20.0" W X 4.0" D X 16.2" H</li> <li>• 507mm W X 101mm D X 411mm H (including stand)</li> <li>• 14.6 lb (6.6 kg) in maximum configuration</li> <li>• Handle in rear, removable feet</li> <li>• Support VESA mount (100mm)</li> </ul>											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>		
												EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant		
												Supports ThinkVantage Technologies		
												For compatible accessories, please go to O-M72Z sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Limited Warranty	<b>1-year, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													

# ThinkCentre M72z (3548) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/Mouse	Global	Win7 preload	Ann date (mm/dd/yy)
3548-A9U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	2.4G	None	Pro 64	06/05/12
3548-B1U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Pro 64	06/05/12
3548-B2U	i7-3770S	4GBx2 1600MHz	2.0M	500G 7200	HD 4000	11b/g/n	Media	None	None	None	Monitor	USB	None	Pro 64	06/05/12
3548-B3U	i7-3770S	4GBx2 1600MHz	2.0M	500G 7200	HD 4000	11b/g/n	Media	None	None	None	Monitor	2.4G	None	Pro 64	06/05/12
3548-C1U	i3-3220	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	Serial	None	Monitor	USB	None	Pro 64	09/04/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Mainstream All-In-One PC for the enterprise</i>	<p><b>Preloaded operating system</b><sup>20</sup></p> <p>Genuine Windows® 7 Professional 64</p> <p><b>Ready to install applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> <li>● Business-in-a-Box</li> </ul> <p><b>Preloaded applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Automatic Lock Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● RapidBoot HDD Accelerator</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> <li>● InterVideo WinDVD® (DVD, DVD±RW)</li> </ul>
Processor	Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller	
Implementation	Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology	
Memory	Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket	
Graphics	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	
DP dongle	Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>	
Display	None	
Multi-touch	20.0" (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio	
Camera	None	
Controls	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off	
Disk	Front facing buttons for brightness up/auto, brightness down, and power on/off	
Optical	SATA 3.0Gb/s, 3.5" Wide, 7200 rpm	
Media reader	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable	
Chipset	Some: 7-in-1 Single Slot SD media reader	
Rear ports	Intel H61 Express Chipset	
Side ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)	
PCIe Mini Card	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
PCIe WLAN	One PCI Express® Mini Card slot	
Bluetooth	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Ethernet	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Audio	One gigabit ethernet port, Realtek® RTL8111E-VB	
Speaker	High Definition (HD) Audio, Realtek ALC269Q	
Intel AMT	Two internal stereo speakers (2watt x 2)	
Modem	None	
IEEE 1394	None	
Security chip	None	
Keyboard	Trusted Platform Module (TPM 1.2-compliant)	
Mouse	Some: Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Power supply	Some: Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black	
Machine	Some: Enhanced Optical USB Mouse, black, Lenovo logo	
	Some: Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black	
	150 watts, autosensing, 85% PSU	
	Model(s) with Non multi-touch, Monitor stand:	
	<ul style="list-style-type: none"> <li>● Business black color</li> <li>● 20.0" W X 8.9" D X 17.0" H</li> <li>● 507mm W X 227mm D X 431mm H (including stand)</li> <li>● 18.5 lb (8.4 kg) in maximum configuration</li> <li>● Tilt: 25° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> <li>● Support VESA mount (100mm)</li> </ul>	
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul> <p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 5.2-compliant</p> <p>TCO Certified Edge</p> <p>Cisco EnergyWise compatible</p> <p>GREENGUARD® certified</p> <p>RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to O-M72Z sheet;</p> <p>For Lenovo service upgrade options, please go to S-TC sheet</p>

See footnotes for important warranty information  
 US models announced June 5 or September 4, 2012  
 US models withdrawn effective May 2014

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# ThinkCentre M72z (3548) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/Mouse	Global	Win7 preload	Ann date (mm/dd/yy)
3548-B4U	G640	2GBx1 1600MHz	2.0M	500G 7200	Intel HD	11b/g/n	None	None	None	None	Monitor	USB	None	Pro 64	07/24/12
3548-B9U	G640	2GBx1 1600MHz	2.0M	500G 7200	Intel HD	11b/g/n	None	None	Serial	None	Monitor	USB	None	Pro 64	08/14/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Mainstream All-In-One PC for the enterprise</i>											<b>Preloaded operating system<sup>20</sup></b>			
Processor	Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											Genuine Windows® 7 Professional 64			
Implementation	Processor in LGA1155 socket											<b>Ready to install applications</b> (only some listed)			
Memory	16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook); System automatically clocks down for processors with 1066MHz DDR3 memory controller											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> <li>• Business-in-a-Box</li> </ul>			
Graphics	Intel HD Graphics in processor, uses main memory, DirectX® 10.1, external digital monitor support via DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort)@60Hz											<b>Preloaded applications</b> (only some listed)			
DP dongle	None											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> <li>• InterVideo WinDVD® (DVD, DVD±RW)</li> </ul>			
Display	20.0" (508mm) HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio														
Multi-touch	None														
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off														
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off														
Disk	SATA 3.0Gb/s, 3.5" Wide, 7200 rpm														
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable														
Media reader	None														
Chipset	<b>Intel H61 Express Chipset</b>														
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)														
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
PCIe Mini Card	One PCI Express® Mini Card slot														
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2														
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter														
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB														
Audio	High Definition (HD) Audio, Realtek ALC269Q														
Speaker	Two internal stereo speakers (2watt x 2)														
Intel AMT	None														
Modem	None														
IEEE 1394	None														
Security chip	Trusted Platform Module (TPM 1.2-compliant)											<b>Security</b>			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	150 watts, autosensing, 85% PSU														
Machine	<i>Model(s) with Non multi-touch, Monitor stand:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 20.0" W X 8.9" D X 17.0" H</li> <li>• 507mm W X 227mm D X 431mm H (including stand)</li> <li>• 18.5 lb (8.4 kg) in maximum configuration</li> <li>• Tilt: 25° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> <li>• Support VESA mount (100mm)</li> </ul>											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies			
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to O-M72Z sheet; For Lenovo service upgrade options, please go to S-TC sheet			

# ThinkCentre M72z (3548) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/ Mouse Global	Preload	Ann date (mm/dd/yy)
3548-C6U	i5-3470T	4GBx1 1600MHz	2.0M	1TB 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Win8 Pro64 10/23/12
3548-C7U	i7-3770S	4GBx2 1600MHz	2.0M	1TB 7200	HD 4000	11b/g/n	Media	None	None	None	Monitor	USB	None	Win8 Pro64 10/23/12
3548-C8U	i3-3220	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Win7 Pro64 10/23/12
3548-C9U	i3-3240	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Win7 Pro64 10/23/12
3548-D1U	G640	2GBx1 1600MHz	2.0M	500G 7200	Intel HD	11b/g/n	Media	None	None	None	Monitor	USB	None	Win7 Pro64 10/23/12
3548-D2U	i3-3220	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	Win7 Pro64 10/23/12
3548-D3U	G860	2GBx1 1600MHz	2.0M	500G 7200	Intel HD	11b/g/n	None	None	None	None	Monitor	USB	None	Win7 Pro64 10/23/12
3548-F2U	i3-3220	4GBx1 1600MHz	2.0M	180G SSD	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Win7 Pro64 11/20/12
3548-F4U	G2020	2GBx1 1600MHz	2.0M	500G 7200	Intel HD	11b/g/n	Media	None	None	None	Monitor	USB	None	Win7 Pro64 01/22/13
3548-F7U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Win7 Pro64 03/05/13
3548-F9U	i7-3770S	8GBx1 1600MHz	2.0M	1TB 7200	HD 4000	11b/g/n	Media	None	None	None	Monitor	USB	None	Win7 Pro64 03/05/13
3548-G1U	i5-3470S	4GBx1 1600MHz	2.0M	1TB 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Win7 Pro64 03/12/13

Positioning	<i>Mainstream All-In-One PC for the enterprise</i>										<b>Preloaded operating system<sup>20</sup></b>			
Processor	<b>Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1066MHz) <b>Intel Pentium G2020 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) <b>Intel Pentium G860 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) <b>Intel Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz) <b>Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz) <b>Intel Core i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology										Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit			
Implementation	Processor in LGA1155 socket										<b>Preloaded applications (only some listed) - Windows 7 models</b>			
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook) <i>System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller</i>										<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>Lenovo® Message Center Plus</li> <li>RapidBoot HDD Accelerator</li> <li>Lenovo SimpleTap</li> <li>Adobe® Reader®</li> <li>Corel® Burn.Now™ (DVD±RW)</li> <li>Corel DVD MovieFactory® (DVD±RW)</li> <li>InterVideo WinDVD® (DVD, DVD±RW)</li> </ul>			
Graphics	<b>Intel HD Graphics / 2500 / 4000</b> in processor, uses main memory, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>										<ul style="list-style-type: none"> <li>Lenovo Support</li> <li>Lenovo Settings</li> <li>Lenovo Companion</li> <li>Lenovo Cloud Storage</li> <li>Norton™ Studio</li> <li>AccuWeather</li> <li>Evernote®</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> </ul>			
DP dongle	None										<b>- All models</b>			
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio										<ul style="list-style-type: none"> <li>ThinkVantage System Update</li> <li>ThinkVantage Automatic lock Utility</li> <li>Lenovo Solution Center</li> <li>View Management Utility</li> <li>Norton Internet Security (30 days of virus definitions)</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Skype™</li> </ul>			
Multi-touch	None													
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off													
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off													
Disk	<i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide <i>Some:</i> Hard Disk Drive / SATA 3.0Gb/s, 3.5" Wide, 7200 rpm													
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable													
Media reader	<i>Some:</i> 7-in-1 Single Slot SD media reader													
Chipset	<b>Intel H61 Express Chipset</b>													
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)										<b>Security</b>			
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										<ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>			
PCIe Mini Card	One PCI Express® Mini Card slot													
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2													
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter													
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB													
Audio	High Definition (HD) Audio, Realtek ALC269Q													
Speaker	Two internal stereo speakers (2watt x 2)													
Intel AMT	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	150 watts, autosensing, 85% PSU													
Machine	<i>Model(s) with Non multi-touch, Monitor stand:</i> <ul style="list-style-type: none"> <li>Business black color</li> <li>20.0" W X 8.9" D X 17.0" H</li> <li>507mm W X 227mm D X 431mm H (including stand)</li> <li>18.5 lb (8.4 kg) in maximum configuration</li> <li>Tilt: 25° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> <li>Support VESA mount (100mm)</li> </ul>										EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
											Supports ThinkVantage Technologies			
											For compatible accessories, please go to O-M72Z sheet; For Lenovo service upgrade options, please go to S-TC sheet			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													

See footnotes for important warranty information

US models announced Oct 23, 2012, Nov 20, 2012, Jan 22, 2013, Mar 5, 2013, or Mar 12, 2013  
 US models withdrawn effective May 2014

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# ThinkCentre M72z (3548) - TopSeller (Win 8) - III

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/Mouse	Global	Preload	Ann date (mm/dd/yy)
3548-H2U	i7-3770S	8GBx1 1600MHz	2.0M	500G 7200	HD 4000	11b/g/n	Media	None	None	None	Monitor	2.4G	None	Win7 Pro64	06/11/13
3548-H3U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	2.4G	None	Win7 Pro64	06/11/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Mainstream All-In-One PC for the enterprise</i>											<b>Preloaded operating system<sup>20</sup></b>
Processor	<b>Intel® Core™ i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Implementation	Processor in LGA1155 socket											<b>Ready to install applications</b> (only some listed)
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> <li>● Business-in-a-Box</li> </ul>
Graphics	<b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>											<b>Preloaded applications</b> (only some listed)
DP dongle	None											<ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Automatic Lock Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● RapidBoot HDD Accelerator</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> <li>● InterVideo WinDVD® (DVD, DVD±RW)</li> </ul>
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio											
Multi-touch	None											
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off											
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off											
Disk	SATA 3.0Gb/s, 3.5" Wide, 7200 rpm											
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable											
Media reader	7-in-1 Single Slot SD media reader											
Chipset	<b>Intel H61 Express Chipset</b>											
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)											
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
PCIe Mini Card	One PCI Express® Mini Card slot											
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2											
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter											
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB											
Audio	High Definition (HD) Audio, Realtek ALC269Q											
Speaker	Two internal stereo speakers (2watt x 2)											
Intel AMT	None											
Modem	None											
IEEE 1394	None											
Security chip	Trusted Platform Module (TPM 1.2-compliant)											
Keyboard	Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black											
Mouse	Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black											
Power supply	150 watts, autosensing, 85% PSU											
Machine	<i>Model(s) with Non multi-touch, Monitor stand:</i> <ul style="list-style-type: none"> <li>● Business black color</li> <li>● 20.0" W X 8.9" D X 17.0" H</li> <li>● 507mm W X 227mm D X 431mm H (including stand)</li> <li>● 18.5 lb (8.4 kg) in maximum configuration</li> <li>● Tilt: 25° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> <li>● Support VESA mount (100mm)</li> </ul>											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies For compatible accessories, please go to O-M72Z sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
 US models announced June 11, 2013  
 US models withdrawn effective May 2014

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# ThinkCentre M72z (3548) - TopSeller (Win 8) - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/Mouse Global	Preload	Ann date (mm/dd/yy)
3548-E9U	i3-3220	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Frame	USB	None	Win7 Pro64 11/20/12
3548-F1U	G645	2GBx1 1600MHz	2.0M	500G 7200	Intel HD	11b/g/n	Media	None	None	None	Frame	USB	None	Win7 Pro64 11/20/12
3548-F3U	G645	2GBx1 1600MHz	2.0M	500G 7200	Intel HD	11b/g/n	Media	None	Serial	None	Frame	USB	None	Win7 Pro64 11/20/12
3548-F6U	G2120	2GBx1 1600MHz	2.0M	500G 7200	Intel HD	11b/g/n	Media	None	None	None	Frame	USB	None	Win7 Pro64 12/04/12
3548-F5U	G2020	2GBx1 1600MHz	2.0M	500G 7200	Intel HD	11b/g/n	Media	None	None	None	Frame	USB	None	Win7 Pro64 01/22/13
3548-F8U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Frame	USB	None	Win7 Pro64 03/05/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning Processor	<p><i>Mainstream All-In-One PC for the enterprise</i></p> <p><b>Intel® Pentium® G645 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache)</b>, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Pentium G2020 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache)</b>, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Pentium G2120 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache)</b>, integrated Intel HD Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b>, integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache)</b>, Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p>	<p><b>Preloaded operating system<sup>20</sup></b></p> <p>Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</p> <p><b>Ready to install applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> <li>● Business-in-a-Box</li> </ul> <p><b>Preloaded applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Automatic Lock Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● RapidBoot HDD Accelerator</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> <li>● InterVideo WinDVD® (DVD, DVD±RW)</li> </ul>
Implementation	Processor in LGA1155 socket	
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook) <i>System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller</i>	
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 2500</b> in processor, uses main memory, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>	
DP dongle	None	
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio	
Multi-touch	None	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off	
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off	
Disk	Hard Disk Drive / SATA 3.0Gb/s, 3.5" Wide, 7200 rpm	
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable	
Media reader	7-in-1 Single Slot SD media reader	
Chipset	<b>Intel H61 Express Chipset</b>	
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)	
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB	
Audio	High Definition (HD) Audio, Realtek ALC269Q	
Speaker	Two internal stereo speakers (2watt x 2)	
Intel AMT	None	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	150 watts, autosensing, 85% PSU	
Machine	<p><i>Model(s) with Non multi-touch, Frame stand:</i></p> <ul style="list-style-type: none"> <li>● Business black color</li> <li>● 20.0" W X 4.0" D X 16.2" H</li> <li>● 507mm W X 101mm D X 411mm H (including stand)</li> <li>● 14.6 lb (6.6 kg) in maximum configuration</li> <li>● Handle in rear, removable feet</li> <li>● Support VESA mount (100mm)</li> </ul>	<p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 5.2-compliant</p> <p>TCO Certified Edge</p> <p>Cisco EnergyWise compatible</p> <p>GREENGUARD® certified</p> <p>RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p>
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<p>For compatible accessories, please go to O-M72Z sheet;</p> <p>For Lenovo service upgrade options, please go to S-TC sheet</p>

See footnotes for important warranty information  
 US models announced Nov 20, 2012, Dec 4, 2012, Jan 22, 2013, or Mar 5, 2013  
 US models withdrawn effective May 2014

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# ThinkCentre M72z (3554)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/Mouse Global	Win7 preload	Ann date (mm/dd/yy)
3554-E2U	i7-3770S	4GBx2 1600MHz	2.0M	500G 7200	HD 4000	11b/g/n	Media	None	None	None	Monitor	USB	None	Pro 64 06/05/12
3554-E3U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	Pro 64 06/05/12
3554-E4U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Prem 64 06/05/12
3554-E5U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Frame	USB	None	Pro 64 06/05/12
3554-E6U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	Prem 32 06/05/12

•3-year limited warranty

Positioning Processor	<i>Mainstream All-In-One PC for the enterprise</i> <b>Intel® Core™ i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> Processor in LGA1155 socket	<b>Preloaded operating system<sup>20</sup></b> <i>Some:</i> Genuine Windows® 7 Home Premium 32 <i>Some:</i> Genuine Windows® 7 Home Premium 64 <i>Some:</i> Genuine Windows 7 Professional 64
Implementation	Processor in LGA1155 socket	<b>Ready to install applications</b> (only some listed)
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> <li>Business-in-a-Box</li> </ul>
Graphics	<b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>	<b>Preloaded applications</b> (only some listed)
DP dongle	None	<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Automatic Lock Utility</li> <li>ThinkVantage Power Manager</li> <li>View Management Utility</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>RapidBoot HDD Accelerator</li> <li>Lenovo SimpleTap</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™ for Windows</li> <li>Windows Live™ Essentials</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Corel® Burn.Now™ (DVD±RW)</li> <li>Corel DVD MovieFactory® (DVD±RW)</li> <li>InterVideo WinDVD® (DVD, DVD±RW)</li> </ul>
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio	
Multi-touch	None	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off	
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off	
Disk	SATA 3.0Gb/s, 3.5" Wide, 7200 rpm	
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable	
Media reader	<i>Some:</i> 7-in-1 Single Slot SD media reader	
Chipset	<b>Intel H61 Express Chipset</b>	
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)	
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB	
Audio	High Definition (HD) Audio, Realtek ALC269Q	
Speaker	Two internal stereo speakers (2watt x 2)	
Intel AMT	None	
Modem	None	
IEEE 1394	None	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	<b>Security</b>
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	<ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	150 watts, autosensing, 85% PSU	
Machine	<i>Model(s) with Non multi-touch, Frame stand:</i> <ul style="list-style-type: none"> <li>Business black color</li> <li>20.0" W X 4.0" D X 16.2" H</li> <li>507mm W X 101mm D X 411mm H (including stand)</li> <li>14.6 lb (6.6 kg) in maximum configuration</li> <li>Handle in rear, removable feet</li> <li>Support VESA mount (100mm)</li> </ul> <i>Model(s) with Non multi-touch, Monitor stand:</i> <ul style="list-style-type: none"> <li>Business black color</li> <li>20.0" W X 8.9" D X 17.0" H</li> <li>507mm W X 227mm D X 431mm H (including stand)</li> <li>18.5 lb (8.4 kg) in maximum configuration</li> <li>Tilt: 25° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> <li>Support VESA mount (100mm)</li> </ul>	EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	For compatible accessories, please go to O-M72Z sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
 US models announced June 5, 2012  
 US models withdrawn effective May 2014

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 (MTG11-2) May 2014

# ThinkCentre M72z (3554) - Windows 8

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/Mouse Global	Preload	Ann date (mm/dd/yy)
3554-H2U	i3-3220	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	Win8 Pro64 10/23/12
3554-H3U	i3-3240	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Win8 Pro64 10/23/12
3554-H4U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	Win8 Pro64 10/23/12
3554-H7U	i5-3570S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	Win8 Pro64 10/23/12
3554-H8U	i7-3770S	4GBx1 1600MHz	2.0M	1TB 7200	HD 4000	11b/g/n	Media	None	None	None	Monitor	USB	None	Win8 Pro64 10/23/12
3554-M9U	i5-3470S	4GBx1 1600MHz	2.0M	180G SSD	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Win7 Pro64 11/20/12
3554-Q6U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Win7 Pro64 07/09/13

Positioning Processor	<p><i>Mainstream All-In-One PC for the enterprise</i></p> <p><b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz)</p> <p><b>Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz)</p> <p><b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i5-3570S Processor (4 cores / 4 threads, 3.1GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p>	<p><b>Preloaded operating system<sup>20</sup></b></p> <p><i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</p> <p><i>Some:</i> Windows 8 Pro 64-bit</p> <p><b>Preloaded applications (only some listed) - Windows 7 models</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• Lenovo® Message Center Plus</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> <li>• InterVideo WinDVD® (DVD, DVD±RW)</li> </ul> <p><b>- Windows 8 models</b></p> <ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Settings</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul> <p><b>- All models</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Automatic lock Utility</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>
Implementation	Processor in LGA1155 socket	
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	
Graphics	<b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>	
DP dongle	None	
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio	
Multi-touch	None	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off	
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off	
Disk	<i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide <i>Some:</i> Hard Disk Drive / SATA 3.0Gb/s, 3.5" Wide, 7200 rpm	
Optical Media reader	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable <i>Some:</i> 7-in-1 Single Slot SD media reader	
Chipset	<b>Intel H61 Express Chipset</b>	
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)	
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB	
Audio	High Definition (HD) Audio, Realtek ALC269Q	
Speaker	Two internal stereo speakers (2watt x 2)	
Intel AMT	None	
Modem	None	
IEEE 1394	None	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	150 watts, autosensing, 85% PSU	
Machine	<p><i>Model(s) with Non multi-touch, Monitor stand:</i></p> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 20.0" W X 8.9" D X 17.0" H</li> <li>• 507mm W X 227mm D X 431mm H (including stand)</li> <li>• 18.5 lb (8.4 kg) in maximum configuration</li> <li>• Tilt: 25° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> <li>• Support VESA mount (100mm)</li> </ul>	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• <i>Chassis intrusion switch on selected model(s)</i></li> </ul> <p>EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p>
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<p>For compatible accessories, please go to O-M72Z sheet;</p> <p>For Lenovo service upgrade options, please go to S-TC sheet</p>

See footnotes for important warranty information  
US models announced October 23 or November 20, 2012 or July 9, 2013  
US models withdrawn effective May 2014

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(MTG11-7) May 2014

# ThinkCentre M72z (3554) - Windows 8 - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/Mouse Global	Preload	Ann date (mm/dd/yy)
3554-H1U	i3-3220	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Frame	USB	None	Win8 Pro64 10/23/12
3554-H5U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Frame	USB	None	Win8 Pro64 10/23/12
3554-H6U	i5-3570S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Frame	USB	None	Win8 Pro64 10/23/12
3554-H9U	i7-3770S	4GBx1 1600MHz	2.0M	1TB 7200	HD 4000	11b/g/n	Media	None	None	None	Frame	USB	None	Win8 Pro64 10/23/12
3554-M7U	i3-3220	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Frame	USB	None	Win7 Pro64 11/20/12
3554-N1U	G2020	2GBx1 1600MHz	2.0M	500G 7200	Intel HD	11b/g/n	Media	None	None	None	Frame	USB	None	Win7 Pro64 01/22/13

Positioning Processor	<p><i>Mainstream All-In-One PC for the enterprise</i></p> <p><b>Intel® Pentium® G2020 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i5-3570S Processor (4 cores / 4 threads, 3.1GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Processor in LGA1155 socket</p>	<p><b>Preloaded operating system<sup>20</sup></b></p> <p><i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</p> <p><i>Some:</i> Windows 8 Pro 64-bit</p> <p><b>Preloaded applications (only some listed) - Windows 7 models</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• Lenovo® Message Center Plus</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> <li>• InterVideo WinDVD® (DVD, DVD±RW)</li> </ul> <p><b>- Windows 8 models</b></p> <ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Settings</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul> <p><b>- All models</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Automatic lock Utility</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>
Implementation Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	
Graphics	<b>Intel HD Graphics / 2500 / 4000</b> in processor, uses main memory, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort)@60Hz	
DP dongle	None	
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio	
Multi-touch	None	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off	
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off	
Disk	Hard Disk Drive / SATA 3.0Gb/s, 3.5" Wide, 7200 rpm	
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable	
Media reader	<i>Some:</i> 7-in-1 Single Slot SD media reader	
Chipset	<b>Intel H61 Express Chipset</b>	
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)	
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB	
Audio	High Definition (HD) Audio, Realtek ALC269Q	
Speaker	Two internal stereo speakers (2watt x 2)	
Intel AMT	None	
Modem	None	
IEEE 1394	None	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	150 watts, autosensing, 85% PSU	
Machine	<p><i>Model(s) with Non multi-touch, Frame stand:</i></p> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 20.0" W X 4.0" D X 16.2" H</li> <li>• 507mm W X 101mm D X 411mm H (including stand)</li> <li>• 14.6 lb (6.6 kg) in maximum configuration</li> <li>• Handle in rear, removable feet</li> <li>• Support VESA mount (100mm)</li> </ul>	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul> <p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 5.2-compliant</p> <p>TCO Certified Edge</p> <p>Cisco EnergyWise compatible</p> <p>GREENGUARD® certified</p> <p>RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to O-M72Z sheet;</p> <p>For Lenovo service upgrade options, please go to S-TC sheet</p>
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	

See footnotes for important warranty information  
 US models announced October 23, 2012, November 20, 2012, or January 22, 2013  
 US models withdrawn effective May 2014

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# ThinkCentre M72z (3558) - GMP

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/ Mouse	Global (G) GMP (P)	Win7 preload	Ann date (mm/dd/yy)
3558-A2U	i5-3550S	4GBx1 1600MHz	2.0M	250G 7200	HD 2500	11b/g/n	Media	Switch	None	None	Frame	USB	G P	Pro 64	06/05/12
3558-A4U	i5-3570S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	Switch	None	None	Frame	USB	G P	Pro 64	08/14/12

●Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning Processor	<i>Mainstream All-In-One PC for the enterprise</i> <b>Intel® Core™ i5-3550S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3570S Processor (4 cores / 4 threads, 3.1GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket	<b>Preloaded operating system<sup>20</sup></b> Genuine Windows® 7 Professional 64 <b>Ready to install applications (only some listed)</b> ● Rescue and Recovery™ ● Password Manager ● Business-in-a-Box
Implementation	Processor in LGA1155 socket	<b>Preloaded applications (only some listed)</b> ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Automatic Lock Utility ● ThinkVantage Power Manager ● View Management Utility ● Lenovo Solution Center ● Lenovo Message Center Plus ● RapidBoot HDD Accelerator ● Lenovo SimpleTap ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ for Windows ● Windows Live™ Essentials ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now™ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW) ● InterVideo WinDVD® (DVD, DVD±RW)
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>	
DP dongle	None	
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio	
Multi-touch	None	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off	
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off	
Disk	SATA 3.0Gb/s, 3.5" Wide, 7200 rpm	
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable	
Media reader	7-in-1 Single Slot SD media reader	
Chipset	<b>Intel H61 Express Chipset</b>	
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)	
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB	
Audio	High Definition (HD) Audio, Realtek ALC269Q	
Speaker	Two internal stereo speakers (2watt x 2)	
Intel AMT	None	
Modem	None	
IEEE 1394	None	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	<b>Security</b> ● Security chip (see information on left) ● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis) ● Power-on password ● Administrator password ● Hard disk password ● Boot sequence control ● Boot without keyboard and mouse ● USB port disablement ● Chassis intrusion switch on selected model(s)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	For compatible accessories, please go to O-M72Z sheet;
Power supply	150 watts, autosensing, 85% PSU	For Lenovo service upgrade options, please go to S-TC sheet
Machine	<i>Model(s) with Non multi-touch, Frame stand:</i> ● Business black color ● 20.0" W X 4.0" D X 16.2" H ● 507mm W X 101mm D X 411mm H (including stand) ● 14.6 lb (6.6 kg) in maximum configuration ● Handle in rear, removable feet ● Support VESA mount (100mm)	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	

See footnotes for important warranty information  
US models announced June 5 or August 14, 2012  
US models withdrawn effective May 2014

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(MTG11-3) May 2014



# ThinkCentre M72z (3558) - GMP (Thin Client)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/Mouse	Global (G) GMP (P)	Win7 preload (mm/dd/yy)	Ann date
3558-A5U	G460	2GBx1 1600MHz	None	8G SSD None	None	Intel HD	11b/g/n	None	Switch	Serial	None	Frame	USB	G P	Emb 32	11/20/12
3558-A7U	G465	2GBx1 1600MHz	None	8G SSD None	None	Intel HD	11b/g/n	None	Switch	Serial	None	Frame	USB	G P	Emb 32	01/08/13
3558-A8U	G470	2GBx1 1600MHz	None	8G SSD None	None	Intel HD	11b/g/n	None	Switch	Serial	None	Frame	USB	G P	Emb 32	06/11/13

●Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning Processor	<p><i>Mainstream All-In-One PC for the enterprise</i></p> <p><b>Intel® Celeron® G460 Processor (1 core / 2 threads, 1.8GHz, 1.5MB cache),</b> integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller</p> <p><b>Intel Celeron G465 Processor (1 core / 2 threads, 1.9GHz, 1.5MB cache),</b> integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller</p> <p><b>Intel Celeron G470 Processor (1 core / 2 threads, 2.0GHz, 1.5MB cache),</b> integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller</p>											<p><b>Preloaded operating system<sup>20</sup></b></p> <p>Genuine Windows® 7 Embedded 32</p> <p><b>Preloaded applications (only some listed)</b></p> <ul style="list-style-type: none"> <li>● Adobe® Reader®</li> <li>● Adobe Flash® Player</li> <li>● Citrix® Receiver</li> <li>● IIS Web Server</li> <li>● Microsoft® Management Console</li> <li>● Microsoft Silverlight</li> <li>● Remote Desktop Protocol</li> <li>● ThinPrint .print Client</li> <li>● TightVNC Viewer</li> <li>● VMware® View Client</li> <li>● vWorkspace</li> <li>● Windows Media Player</li> </ul>				
Implementation	Processor in LGA1155 socket															
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook) <i>System automatically clocks down for processors with 1066MHz DDR3 memory controller</i>															
Graphics	<p><b>Intel HD Graphics</b> in processor, uses main memory, HDCP, DirectX® 10.1, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort) @60Hz</i></p>															
DP dongle	None															
Display	<p><b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b>, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio</p>															
Multi-touch	None															
Camera	None															
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off															
Disk	Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide															
Optical	None															
Media reader	None															
Chipset	<b>Intel H61 Express Chipset</b>															
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)															
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
PCIe Mini Card	One PCI Express® Mini Card slot															
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2															
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter															
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB															
Audio	High Definition (HD) Audio, Realtek ALC269Q															
Speaker	Two internal stereo speakers (2watt x 2)															
Intel AMT	None															
Modem	None															
IEEE 1394	None															
Security chip	Trusted Platform Module (TPM 1.2-compliant)											<p><b>Security</b></p> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● USB port disablement</li> <li>● <i>Chassis intrusion switch on selected model(s)</i></li> </ul>				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo															
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo															
Power supply	150 watts, autosensing, 85% PSU															
Machine	<p><i>Model(s) with Non multi-touch, Frame stand:</i></p> <ul style="list-style-type: none"> <li>● Business black color</li> <li>● 20.0" W X 4.0" D X 16.2" H</li> <li>● 507mm W X 101mm D X 411mm H (including stand)</li> <li>● 14.6 lb (6.6 kg) in maximum configuration</li> <li>● Handle in rear, removable feet</li> <li>● Support VESA mount (100mm)</li> </ul>											<p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 5.2-compliant</p> <p>TCO Certified Edge</p> <p>Cisco EnergyWise compatible</p> <p>GREENGUARD® certified</p> <p>RoHS-compliant</p>				
Limited Warranty	<p><b>3-years, limited onsite service</b>, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available</p>											<p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to O-M72Z sheet;</p> <p>For Lenovo service upgrade options, please go to S-TC sheet</p>				

See footnotes for important warranty information  
 US models announced November 20, 2012 or January 8 or June 11, 2013  
 US models withdrawn effective May 2014

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 (MTG11-9) May 2014

# ThinkCentre M72z (3558) - GMP (Win 8)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/ Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)	
3558-A3U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	Switch	None	None	Frame	USB	G P	Win8 Pro64	10/23/12
3558-A6U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Frame	USB	G P	Win7 Pro64	10/23/12

●Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning Processor	<i>Mainstream All-In-One PC for the enterprise</i>											<b>Preloaded operating system<sup>20</sup></b>		
Implementation	Intel® Core™ i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit		
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<b>Preloaded applications</b> (only some listed)		
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>											<b>- Windows 7 models</b>		
DP dongle	None											<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>Lenovo® Message Center Plus</li> <li>RapidBoot HDD Accelerator</li> <li>Lenovo SimpleTap</li> <li>Adobe® Reader®</li> <li>Corel® Burn.Now™ (DVD±RW)</li> <li>Corel DVD MovieFactory® (DVD±RW)</li> <li>InterVideo WinDVD® (DVD, DVD±RW)</li> </ul>		
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio											<b>- Windows 8 models</b>		
Multi-touch	None											<ul style="list-style-type: none"> <li>Lenovo Support</li> <li>Lenovo Settings</li> <li>Lenovo Companion</li> <li>Lenovo Cloud Storage</li> <li>Norton™ Studio</li> <li>AccuWeather</li> <li>Evernote®</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> </ul>		
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off											<b>- All models</b>		
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off											<ul style="list-style-type: none"> <li>ThinkVantage System Update</li> <li>ThinkVantage Automatic lock Utility</li> <li>Lenovo Solution Center</li> <li>View Management Utility</li> <li>Norton Internet Security (30 days of virus definitions)</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Skype™</li> </ul>		
Disk	SATA 3.0Gb/s, 3.5" Wide, 7200 rpm													
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable													
Media reader	7-in-1 Single Slot SD media reader													
Chipset	<b>Intel H61 Express Chipset</b>													
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)													
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
PCIe Mini Card	One PCI Express® Mini Card slot													
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2													
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter													
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB													
Audio	High Definition (HD) Audio, Realtek ALC269Q													
Speaker	Two internal stereo speakers (2watt x 2)													
Intel AMT	None													
Modem	None													
IEEE 1394	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	150 watts, autosensing, 85% PSU													
Machine	<i>Model(s) with Non multi-touch, Frame stand:</i> <ul style="list-style-type: none"> <li>Business black color</li> <li>20.0" W X 4.0" D X 16.2" H</li> <li>507mm W X 101mm D X 411mm H (including stand)</li> <li>14.6 lb (6.6 kg) in maximum configuration</li> <li>Handle in rear, removable feet</li> <li>Support VESA mount (100mm)</li> </ul>											<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>		
												EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant		
												Supports ThinkVantage Technologies		
												For compatible accessories, please go to O-M72Z sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													

See footnotes for important warranty information  
US models announced October 23, 2012  
US models withdrawn effective May 2014

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(MTG11-8) May 2014

# ThinkCentre M72z (3538) - Multi-touch (GMP)

Personal Systems Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/ Mouse	Global (G) GMP (P)	Win7 preload	Ann date (mm/dd/yy)
3538-A2U	i5-3550S	4GBx1 1600MHz	2.0M	250G 7200	HD 2500	11b/g/n	Media	Switch	None	None	Frame	USB	G P	Pro 64	06/05/12
3538-A3U	i5-3570S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	Switch	None	None	Frame	USB	G P	Pro 64	08/14/12

- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty
- Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	<i>Mainstream All-In-One PC for the enterprise</i> <b>Intel® Core™ i5-3550S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3570S Processor (4 cores / 4 threads, 3.1GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										<b>Preloaded operating system<sup>20</sup></b> Genuine Windows® 7 Professional 64 <b>Ready to install applications (only some listed)</b> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> <li>• Business-in-a-Box</li> </ul>				
Implementation	Processor in LGA1155 socket										<b>Preloaded applications (only some listed)</b> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Microsoft Touch Pack</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft Office 2010 preloaded; purchase product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> <li>• InterVideo WinDVD® (DVD, DVD±RW)</li> </ul>				
Memory	8GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)														
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>														
DP dongle	None														
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio														
Multi-touch	Multi-touch, 2-point support														
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off														
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off														
Disk	SATA 3.0Gb/s, 3.5" Wide, 7200 rpm														
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable														
Media reader	7-in-1 Single Slot SD media reader														
Chipset	<b>Intel H61 Express Chipset</b>														
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)														
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
PCIe Mini Card	One PCI Express® Mini Card slot														
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2														
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter														
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB														
Audio	High Definition (HD) Audio, Realtek ALC269Q														
Speaker	Two internal stereo speakers (2watt x 2)														
Intel AMT	None														
Modem	None														
IEEE 1394	None														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	150 watts, autosensing, 85% PSU														
Machine	<i>Model(s) with multi-touch, Frame stand:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 20.0" W X 4.2" D X 16.2" H</li> <li>• 507mm W X 107mm D X 411mm H (including stand)</li> <li>• 17.5 lb (7.9 kg) in maximum configuration</li> <li>• Handle in rear, removable feet</li> <li>• Support VESA mount (100mm)</li> </ul>										<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>				
											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies				
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										For compatible accessories, please go to O-M72Z sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information  
US models announced June 5 or August 14, 2012  
US models withdrawn effective September 2012

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## Memory

2GB PC3-12800 DDR3 SODIMM	0A65722	ann 06/05/12
4GB PC3-12800 DDR3 SODIMM	0A65723	ann 06/05/12
8GB PC3-12800 DDR3 SODIMM	0A65724	ann 06/05/12

More information at

[www.lenovo.com/support/desktopmemorycompatibility](http://www.lenovo.com/support/desktopmemorycompatibility)

## Storage and removable storage

500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	ann 11/06/07
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	ann 08/19/08
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 3.0 Secure 500GB Hard Drive	0A65619	ann 11/29/11
USB 3.0 Secure 750GB Hard Drive	0A65616	ann 11/29/11
USB 3.0 Secure 1TB Hard Drive	0A65621	ann 08/28/12
Slim USB Portable DVD Burner	0A33988	ann 06/14/11

## Keyboard

Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Ultraslim Plus Wireless Keyboard and Mouse <sup>52</sup>	0A34032	ann 04/05/11
ThinkPad <sup>®</sup> USB Keyboard with TrackPoint	55Y9003	ann 08/18/09
Lenovo <sup>®</sup> USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09

<sup>52</sup> Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at [www.lenovo.com/support/keyboards](http://www.lenovo.com/support/keyboards)

## Mouse

Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo ScrollPoint <sup>®</sup> Mouse (USB, Optical)	31P7405	ann 08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann 06/04/02
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse <sup>52</sup>	0A36188	ann 12/20/11
ThinkPad USB Laser Mouse	57Y4635	ann 12/15/09

More information at [www.lenovo.com/support/mice](http://www.lenovo.com/support/mice)

## Modem

USB 2.0 Lenovo Modem	43R1814	ann 02/26/08
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## Multimedia

ThinkPad In-Ear Headphones with mic	57Y4488	ann 01/07/10
Lenovo Mini Speakers M220	55Y2033	ann 01/07/10
Lenovo Speakers M0520 (black)	57Y6360	ann 02/08/11
Lenovo Speakers M0520 (red)	57Y6361	ann 02/08/11
Lenovo Headset P550	55Y2065	
Lenovo Headset P950 (black)	57Y6605	ann 02/08/11

## Security

Kensington <sup>®</sup> MicroSaver <sup>®</sup> Cable Lock <sup>56</sup>	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock <sup>56</sup>	45K1620	ann 09/30/08
Lenovo Security Cable Lock <sup>56</sup>	57Y4303	ann 08/24/10
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06

<sup>56</sup> Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

## Monitors

ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D) <sup>69</sup>	2448MB6	ann 09/13/11
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	ann 10/20/09
ThinkVision LT2323p Wide 23" (VGA, DP, DVI-D) <sup>69</sup>	3024HC1	ann 05/01/12

<sup>69</sup> DisplayPort cable is not included; use optional DisplayPort to DisplayPort Monitor Cable (0A36537).

More information at [www.lenovo.com/support/monitors](http://www.lenovo.com/support/monitors)

## Monitor Accessories<sup>46</sup>

Lenovo USB 3.0 to DVI/VGA Monitor Adapter	0B47072	ann 08/14/12
DisplayPort <sup>™</sup> to Single-link DVI-D Cable	45J7915	ann 08/05/08
DisplayPort to VGA Monitor Cable	57Y4393	ann 08/04/09
DisplayPort to DisplayPort Monitor Cable	0A36537	ann 09/13/11
Kensington MicroSaver Cable Lock <sup>56</sup>	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock <sup>56</sup>	45K1620	ann 09/30/08
Lenovo Security Cable Lock <sup>56</sup>	57Y4303	ann 08/24/10
ThinkCentre Extend Arm <sup>70</sup>	57Y4352	ann 07/06/10

<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.

<sup>70</sup> Desk Mount only.

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

For more information on accessories:

[www.lenovo.com/accessories](http://www.lenovo.com/accessories)

Purchase Lenovo accessories

[www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)

Product specifications on Lenovo Support

[www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)

Option Compatibility Matrix (OCM) and accessory brochures

[www.lenovoquickpick.com](http://www.lenovoquickpick.com)

An Options Compatibility Configurator for Lenovo systems

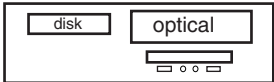


# ThinkCentre M78 Small (5100) - TopSeller - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Chassis intrusion switch	PS/2 port	Floor stand	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
5100-A1U	4x3	A8-5500B	4GBx1	1TB 7200	DVD±RW	None	Radeon HD 7560D	None	None	Stand	None	Pro 64	08/28/12
5100-A2U	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	Radeon HD 7540D	None	None	Stand	None	Pro 64	08/28/12
5100-A3U	4x3	A4-5300	4GBx1	250G 7200	DVD±RW	None	Radeon HD 7480D	None	None	Stand	None	Pro 64	08/28/12
5100-A4U	4x3	A4-5300	2GBx1	250G 7200	DVD±RW	None	Radeon HD 7480D	None	None	Stand	None	Pro 64	08/28/12

- Small and medium business (SMB) model(s), part of the US TopSeller Program
- 3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b>
Processor	<b>AMD Accelerated Processor A4-5300</b> (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics, integrated DDR3 memory controller (up to 1600MHz) <b>AMD Accelerated Processor A6-5400B</b> (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz) <b>AMD Accelerated Processor A8-5500B</b> (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core technology (up to 3.7GHz), integrated AMD Radeon HD 7560D Graphics, integrated DDR3 memory controller (up to 1866MHz)											Genuine Windows® 7 Professional 64
Implementation	Processor in Socket FM2											<b>Ready to install applications</b> (only some listed)
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> <li>• Business-in-a-Box</li> </ul>
Graphics	<b>AMD Radeon HD Graphics</b> , integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution: 1920x1200 (VGA) @60Hz; 2560x2048 (DisplayPort) @60Hz</i>											<b>Preloaded applications</b> (only some listed)
DP dongle	None											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Google Chrome</li> <li>• Google Toolbar</li> <li>• Skype™ for Windows</li> <li>• Evernote®</li> <li>• RapidBoot HDD Accelerator</li> <li>• Symantec™ VIP</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>
Disk	SATA 6.0Gb/s 7200 rpm											
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1											
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar											
eSATA port	None											
Media reader	None											
Chipset	<b>AMD A75 Chipset</b>											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Modem	None											
Security chip	Trusted Platform Module (TPM 1.2-compliant)											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Floor Stand	System floor stand for vertical orientation											
Power supply	240 watts, autosensing, active Power Factor Correction											
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.3" W X 15.0" D X 3.9" H</li> <li>• 339mm W X 381mm D X 100mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless adapter retention</li> </ul>											<b>Security</b>
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader											<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3											
												
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											RoHS-compliant
												Supports ThinkVantage Technologies
												For compatible accessories, please go to O-M78 sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
 US model(s) announced August 28, 2012  
 US model(s) withdrawn effective December 2013

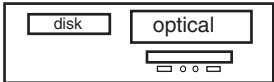
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# ThinkCentre M78 Small (5100) - TopSeller (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Chassis intrusion switch	PS/2 port	Floor stand	ENERGY STAR 5.2 Global	Preload	Ann date (mm/dd/yy)
5100-B1U	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	Radeon HD 7540D	None	None	Stand	None	None	Win8 Pro64 10/23/12
5100-B2U	4x3	A4-5300	2GBx1	250G 7200	DVD±RW	None	Radeon HD 7480D	None	None	Stand	None	None	Win8 Pro64 10/23/12
5100-C1U	4x3	A4-5300	2GBx1	250G 7200	DVD±RW	None	Radeon HD 7480D	None	None	Stand	None	None	Win7 Pro64 10/30/12
5100-C2U	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	Radeon HD 7540D	None	None	Stand	None	None	Win7 Pro64 10/30/12

- Small and medium business (SMB) model(s), part of the US TopSeller Program
- 3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										
Processor	<p><b>AMD Accelerated Processor A4-5300</b> (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics, integrated DDR3 memory controller (up to 1600MHz)</p> <p><b>AMD Accelerated Processor A6-5400B</b> (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz)</p>										
Implementation	Processor in Socket FM2										
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										
Graphics	<p><b>AMD Radeon HD Graphics</b>, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution: 1920x1200 (VGA) @60Hz; 2560x2048 (DisplayPort) @60Hz</i></p>										
DP dongle	None										
Disk	SATA 6.0Gb/s 7200 rpm										
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1										
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar										
eSATA port	None										
Media reader	None										
Chipset	<b>AMD A75 Chipset</b>										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)										
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec										
Speaker	Internal speaker for business audio										
IEEE 1394	None										
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®										
Modem	None										
Security chip	Trusted Platform Module (TPM 1.2-compliant)										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Floor Stand	System floor stand for vertical orientation										
Power supply	240 watts, autosensing, active Power Factor Correction										
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.3" W X 15.0" D X 3.9" H</li> <li>• 339mm W X 381mm D X 100mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless adapter retention</li> </ul>										
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader										
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3										
											
	<p><b>Preloaded operating system</b></p> <p><i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</p> <p><i>Some:</i> Windows 8 Pro 64-bit</p> <p><b>Preloaded applications</b> (only some listed)</p> <p><b>- Windows 7 models</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• Lenovo® Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Google Chrome</li> <li>• Google Toolbar</li> <li>• RapidBoot HDD Accelerator</li> <li>• Symantec™ VIP</li> <li>• Windows Live™ Essentials</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul> <p><b>- Windows 8 models</b></p> <ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Lenovo QuickLaunch</li> <li>• Norton™ Studio</li> <li>• Intel AppUp®</li> <li>• AccuWeather</li> <li>• PC Device Stage</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul> <p><b>- All models</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage® System Update</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Evernote®</li> <li>• Skype™</li> </ul>										
	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>										
	RoHS-compliant										
	Supports ThinkVantage Technologies										
	For compatible accessories, please go to O-M78 sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet										
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										

See footnotes for important warranty information  
 US model(s) announced October 23 or 30, 2012  
 US model(s) withdrawn effective December 2013

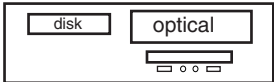
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# ThinkCentre M78 Small (4865) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Chassis intrusion switch	PS/2 port	Floor stand	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
4865-A7U	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	Radeon HD 7540D	None	None	Stand	None	Pro 32	08/28/12
4865-C1U	4x3	A8-5500B	4GBx1	1TB 7200	DVD±RW	None	Radeon HD 7560D	None	None	Stand	None	Pro 64	08/28/12
4865-C2U	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	Radeon HD 7540D	None	None	Stand	None	Pro 64	08/28/12
4865-C3U	4x3	A4-5300	4GBx1	250G 7200	DVD±RW	None	Radeon HD 7480D	None	None	Stand	None	Pro 64	08/28/12

●3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										<b>Preloaded operating system</b>		
Processor	<p><b>AMD Accelerated Processor A4-5300</b> (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics, integrated DDR3 memory controller (up to 1600MHz)</p> <p><b>AMD Accelerated Processor A6-5400B</b> (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz)</p> <p><b>AMD Accelerated Processor A8-5500B</b> (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core technology (up to 3.7GHz), integrated AMD Radeon HD 7560D Graphics, integrated DDR3 memory controller (up to 1866MHz)</p>										<p><i>Some:</i> Genuine Windows® 7 Professional 32</p> <p><i>Some:</i> Genuine Windows 7 Professional 64</p>		
Implementation	Processor in Socket FM2										<b>Ready to install applications</b> (only some listed)		
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<b>Preloaded applications</b> (only some listed)		
Graphics	<p><b>AMD Radeon HD Graphics</b>, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution:</i> 1920x1200 (VGA) @60Hz; 2560x2048 (DisplayPort) @60Hz</p>										<ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Lenovo Simple Tap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Google Chrome</li> <li>● Google Toolbar</li> <li>● Skype™ for Windows</li> <li>● Evernote®</li> <li>● RapidBoot HDD Accelerator</li> <li>● Symantec™ VIP</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>		
DP dongle	None												
Disk	SATA 6.0Gb/s 7200 rpm												
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive												
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1												
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar												
eSATA port	None												
Media reader	None												
Chipset	<b>AMD A75 Chipset</b>												
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional mouse (PS/2), optional mouse (PS/2)												
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)												
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)												
Audio	High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker	Internal speaker for business audio												
IEEE 1394	None												
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®												
Modem	None												
Security chip	Trusted Platform Module (TPM 1.2-compliant)												
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Floor Stand	System floor stand for vertical orientation												
Power supply	240 watts, autosensing, active Power Factor Correction												
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 13.3" W X 15.0" D X 3.9" H</li> <li>● 339mm W X 381mm D X 100mm H</li> <li>● 16.5 lb (7.5 kg) in maximum configuration</li> <li>● Toolless cover flips up and tilts backward on rear hinges</li> <li>● Toolless disk and optical drive removal</li> <li>● Toolless adapter retention</li> </ul>										<b>Security</b>		
Bay	<p>Bay 1: 5.25", 1.6" high, access, std optical</p> <p>Bay 2: 3.5", 1" high, no access, std disk</p> <p>Bay 3: 3.5", .5" high, access, opt reader</p>										<ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>		
Slot	<p>Slot 1: Low Profile, PCI Express 2.0 x16 (40w max)</p> <p>Slot 2: Low Profile, PCIe 2.0 x1</p> <p>Slot 3: Low Profile, 32-bit PCI 2.3</p> <p>Slot 4: Low Profile, 32-bit PCI 2.3</p>												
Limited Warranty	<p><b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available</p>										<p>RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to O-M78 sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet</p>		

See footnotes for important warranty information  
 US model(s) announced August 28, 2012  
 US model(s) withdrawn effective December 2013

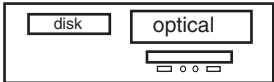
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# ThinkCentre M78 Small (4865) - Windows 8 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Chassis Intrusion switch	PS/2 port	Floor stand	ENERGY STAR 5.2 Global	Preload	Ann date (mm/dd/yy)
4865-E1U	4x3	A4-5300	2GBx1	250G 7200	DVD±RW	None	Radeon HD 7480D	None	None	Stand	None	Win8 Pro64	10/23/12

●3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>												
Processor	<b>AMD Accelerated Processor A4-5300</b> (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics, integrated DDR3 memory controller (up to 1600MHz)												
Implementation	Processor in Socket FM2												
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets												
Graphics	<b>AMD Radeon HD Graphics</b> , integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution: 1920x1200 (VGA) @60Hz; 2560x2048 (DisplayPort) @60Hz</i>												
DP dongle	None												
Disk	SATA 6.0Gb/s 7200 rpm												
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive												
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1												
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar												
eSATA port	None												
Media reader	None												
Chipset	<b>AMD A75 Chipset</b>												
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)												
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)												
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)												
Audio	High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker	Internal speaker for business audio												
IEEE 1394	None												
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®												
Modem	None												
Security chip	Trusted Platform Module (TPM 1.2-compliant)												
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Floor Stand	System floor stand for vertical orientation												
Power supply	240 watts, autosensing, active Power Factor Correction												
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 13.3" W X 15.0" D X 3.9" H</li> <li>● 339mm W X 381mm D X 100mm H</li> <li>● 16.5 lb (7.5 kg) in maximum configuration</li> <li>● Toolless cover flips up and tilts backward on rear hinges</li> <li>● Toolless disk and optical drive removal</li> <li>● Toolless adapter retention</li> </ul>												
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader												
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3												
													
	<b>Preloaded operating system</b> Windows® 8 Pro 64-bit <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>● ThinkVantage® System Update</li> <li>● View Management Utility</li> <li>● Lenovo® Support</li> <li>● Lenovo Companion</li> <li>● Lenovo Cloud Storage</li> <li>● Lenovo QuickLaunch</li> <li>● Lenovo Solution Center</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Norton Studio</li> <li>● Intel AppUp®</li> <li>● AccuWeather</li> <li>● PC Device Stage</li> <li>● Evernote®</li> <li>● Skype™</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> </ul>												
	<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>												
	RoHS-compliant												
	Supports ThinkVantage Technologies												
	For compatible accessories, please go to O-M78 sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet												
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available												

See footnotes for important warranty information  
 US model(s) announced October 23, 2012  
 US model(s) withdrawn effective December 2013

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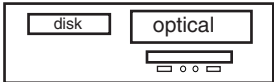


# ThinkCentre M78 Small (2113) - ES 5.2 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Chassis intrusion switch	PS/2 port	Floor stand	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
2113-A1U	4x3	A4-5300	2GBx1	250G 7200	DVD±RW	None	Radeon HD 7480D	None	None	Stand	ES52	None	Pro 32 08/28/12

●3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>												
Processor	<b>AMD Accelerated Processor A4-5300</b> (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics, integrated DDR3 memory controller (up to 1600MHz)												
Implementation	Processor in Socket FM2												
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets												
Graphics	<b>AMD Radeon HD Graphics</b> , integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution: 1920x1200 (VGA) @60Hz; 2560x2048 (DisplayPort) @60Hz</i>												
DP dongle	None												
Disk	SATA 6.0Gb/s 7200 rpm												
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive												
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1												
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar												
eSATA port	None												
Media reader	None												
Chipset	<b>AMD A75 Chipset</b>												
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)												
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)												
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)												
Audio	High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker	Internal speaker for business audio												
IEEE 1394	None												
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®												
Modem	None												
Security chip	Trusted Platform Module (TPM 1.2-compliant)												
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Floor Stand	System floor stand for vertical orientation												
Power supply	240 watts, autosensing, 85% PSU												
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 13.3" W X 15.0" D X 3.9" H</li> <li>● 339mm W X 381mm D X 100mm H</li> <li>● 16.5 lb (7.5 kg) in maximum configuration</li> <li>● Toolless cover flips up and tilts backward on rear hinges</li> <li>● Toolless disk and optical drive removal</li> <li>● Toolless adapter retention</li> </ul>												
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader												
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3												
													
	<b>Preloaded operating system</b> Genuine Windows® 7 Professional 32 <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> <li>● Business-in-a-Box</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Google Chrome</li> <li>● Google Toolbar</li> <li>● Skype™ for Windows</li> <li>● Evernote®</li> <li>● RapidBoot HDD Accelerator</li> <li>● Symantec™ VIP</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>												
	<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>												
	EPEAT™ Gold rating ENERGY STAR 5.2-compliant ULE Gold RoHS-compliant												
	Supports ThinkVantage Technologies												
	For compatible accessories, please go to O-M78 sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet												
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available												

See footnotes for important warranty information  
 US model(s) announced August 28, 2012  
 US model(s) withdrawn effective December 2013

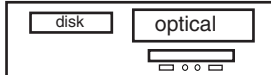
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 (ANDE1-3) January 2014

# ThinkCentre M78 Small (2113) - ES 5.2 (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Chassis intrusion switch	PS/2 port	Floor stand	ENERGY STAR 5.2 Global	Preload	Ann date (mm/dd/yy)
2113-D1U	4x3	A4-5300	2GBx1	250G 7200	DVD±RW	None	Radeon HD 7480D	None	None	Stand	ES52	None	Win8 Pro64 10/23/12
2113-D2U	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	Radeon HD 7540D	None	None	Stand	ES52	None	Win8 Pro64 10/23/12
2113-D3U	4x3	A8-5500B	4GBx1	1TB 7200	DVD±RW	None	Radeon HD 7560D	None	None	Stand	ES52	None	Win8 Pro64 10/23/12
2113-D4U	4x3	A8-5500B	4GBx1	1TB 7200	DVD±RW	None	Radeon HD 7450	None	None	Stand	ES52	None	Win8 Pro64 10/23/12
2113-E1U	4x3	A4-5300	2GBx1	250G 7200	DVD±RW	None	Radeon HD 7480D	None	None	Stand	ES52	None	Win7 Pro64 10/30/12

●3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										
Processor	<p><b>AMD Accelerated Processor A4-5300</b> (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics, integrated DDR3 memory controller (up to 1600MHz)</p> <p><b>AMD Accelerated Processor A6-5400B</b> (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz)</p> <p><b>AMD Accelerated Processor A8-5500B</b> (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core technology (up to 3.7GHz), integrated AMD Radeon HD 7560D Graphics, integrated DDR3 memory controller (up to 1866MHz)</p>										
Implementation	Processor in Socket FM2										
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										
Graphics	<p><i>Some:</i> <b>AMD Radeon HD Graphics</b>, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors;</p> <p><i>Maximum resolution:</i> 1920x1200 (VGA)@60Hz; 2560x2048 (DP)@60Hz</p> <p><i>Some:</i> <b>AMD Radeon HD 7450</b>, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts;</p> <p><i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors</p>										
DP dongle	None										
Disk	SATA 6.0Gb/s 7200 rpm										
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1										
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar										
eSATA port	None										
Media reader	None										
Chipset	<b>AMD A75 Chipset</b>										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)										
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec										
Speaker	Internal speaker for business audio										
IEEE 1394	None										
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®										
Modem	None										
Security chip	Trusted Platform Module (TPM 1.2-compliant)										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Floor Stand	System floor stand for vertical orientation										
Power supply	240 watts, autosenesing, 85% PSU										
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 13.3" W X 15.0" D X 3.9" H</li> <li>● 339mm W X 381mm D X 100mm H</li> <li>● 16.5 lb (7.5 kg) in maximum configuration</li> <li>● Toolless cover flips up and tilts backward on rear hinges</li> <li>● Toolless disk and optical drive removal</li> <li>● Toolless adapter retention</li> </ul>										
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader										
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3										
											
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										
	<b>Preloaded operating system</b> <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 8 Pro 64-bit <b>Preloaded applications</b> (only some listed) <b>- Windows 7 models</b> <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Power Manager</li> <li>● Lenovo® Message Center Plus</li> <li>● Lenovo SimpleTap</li> <li>● Adobe® Reader®</li> <li>● Google Chrome</li> <li>● Google Toolbar</li> <li>● RapidBoot HDD Accelerator</li> <li>● Symantec™ VIP</li> <li>● Windows Live™ Essentials</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul> <b>- Windows 8 models</b> <ul style="list-style-type: none"> <li>● Lenovo Support</li> <li>● Lenovo Companion</li> <li>● Lenovo Cloud Storage</li> <li>● Lenovo QuickLaunch</li> <li>● Norton™ Studio</li> <li>● Intel AppUp®</li> <li>● AccuWeather</li> <li>● PC Device Stage</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> </ul> <b>- All models</b> <ul style="list-style-type: none"> <li>● ThinkVantage® System Update</li> <li>● View Management Utility</li> <li>● Lenovo Solution Center</li> <li>● Norton Internet Security (30 days of virus definitions)</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Evernote®</li> <li>● Skype™</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>										
	EPEAT™ Gold rating ENERGY STAR 5.2-compliant ULE Gold RoHS-compliant										
	Supports ThinkVantage Technologies										
	For compatible accessories, please go to O-M78 sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet										

See footnotes for important warranty information  
 US model(s) announced October 23 or 30, 2012  
 US model(s) withdrawn effective December 2013

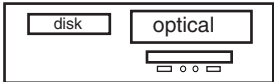
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 (ANDE1-11) January 2014

# ThinkCentre M78 Small (2114) - ES 5.2 (GMP) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Chassis intrusion switch	PS/2 port	Floor stand	ENERGY STAR 5.2	Global (G) GMP (P)	Win7 preload	Ann date (mm/dd/yy)
2114-A1U	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	Radeon HD 7540D	None	None	Stand	ES52	G P	Pro 64	08/28/12

●Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										<b>Preloaded operating system</b>			
Processor	<b>AMD Accelerated Processor A6-5400B</b> (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz)										Genuine Windows® 7 Professional 64			
Implementation	Processor in Socket FM2										<b>Ready to install applications</b> (only some listed)			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> <li>Business-in-a-Box</li> </ul>			
Graphics	<b>AMD Radeon HD Graphics</b> , integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution: 1920x1200 (VGA) @60Hz; 2560x2048 (DisplayPort) @60Hz</i>										<b>Preloaded applications</b> (only some listed)			
DP dongle	None										<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>View Management Utility</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Lenovo SimpleTap</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Google Chrome</li> <li>Google Toolbar</li> <li>Skype™ for Windows</li> <li>Evernote®</li> <li>RapidBoot HDD Accelerator</li> <li>Symantec™ VIP</li> <li>Windows Live™ Essentials</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Corel® Burn.Now™ (DVD±RW)</li> <li>Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Disk	SATA 6.0Gb/s 7200 rpm													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1													
Onboard SATA eSATA port	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar													
Media reader	None													
Chipset	<b>AMD A75 Chipset</b>													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)													
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®													
Modem	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Floor Stand	System floor stand for vertical orientation													
Power supply	240 watts, autosensing, 85% PSU													
Machine	<ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>13.3" W X 15.0" D X 3.9" H</li> <li>339mm W X 381mm D X 100mm H</li> <li>16.5 lb (7.5 kg) in maximum configuration</li> <li>Toolless cover flips up and tilts backward on rear hinges</li> <li>Toolless disk and optical drive removal</li> <li>Toolless adapter retention</li> </ul>													
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader													
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3													
														
											<b>Security</b>			
											<ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>Cable lock</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>			
											EPEAT™ Gold rating			
											ENERGY STAR® 5.2-compliant			
											ULE Gold			
											RoHS-compliant			
											Supports ThinkVantage Technologies			
											For compatible accessories, please go to O-M78 sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													

See footnotes for important warranty information  
 US model(s) announced August 28, 2012  
 US model(s) withdrawn effective December 2013

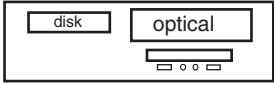
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 (ANDE1-4) January 2014

# ThinkCentre M78 Small (2114) - ES 5.2 (GMP) - Win 8 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Chassis Intrusion switch	PS/2 port	Floor stand	ENERGY STAR 5.2	Global (G) GMP (P)	Ann date (mm/dd/yy)
2114-B1U	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	Radeon HD 7540D	None	None	Stand	ES52	G P	Win8 Pro64 10/23/12
2114-C1U	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	Radeon HD 7540D	None	None	Stand	ES52	G P	Win7 Pro64 10/30/12

● Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										
Processor	<b>AMD Accelerated Processor A6-5400B</b> (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz)										
Implementation	Processor in Socket FM2										
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										
Graphics	<b>AMD Radeon HD Graphics</b> , integrated in processor, uses main memory, DirectX <sup>®</sup> 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution: 1920x1200 (VGA) @60Hz; 2560x2048 (DisplayPort) @60Hz</i>										
DP dongle	None										
Disk	SATA 6.0Gb/s 7200 rpm										
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1										
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar										
eSATA port	None										
Media reader	None										
Chipset	<b>AMD A75 Chipset</b>										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)										
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)										
Audio	High Definition (HD) Audio, Realtek <sup>®</sup> ALC662 codec										
Speaker	Internal speaker for business audio										
IEEE 1394	None										
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN <sup>®</sup>										
Modem	None										
Security chip	Trusted Platform Module (TPM 1.2-compliant)										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo <sup>®</sup> logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Floor Stand	System floor stand for vertical orientation										
Power supply	240 watts, autosensing, 85% PSU										
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 13.3" W X 15.0" D X 3.9" H</li> <li>● 339mm W X 381mm D X 100mm H</li> <li>● 16.5 lb (7.5 kg) in maximum configuration</li> <li>● Toolless cover flips up and tilts backward on rear hinges</li> <li>● Toolless disk and optical drive removal</li> <li>● Toolless adapter retention</li> </ul>										
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader										
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3										
											
	<b>Preloaded operating system</b> Some: Windows <sup>®</sup> 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit										
	<b>Preloaded applications</b> (only some listed) - <b>Windows 7 models</b> <ul style="list-style-type: none"> <li>● ThinkVantage<sup>®</sup> Product Recovery</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Power Manager</li> <li>● Lenovo<sup>®</sup> Message Center Plus</li> <li>● Lenovo SimpleTap</li> <li>● Adobe<sup>®</sup> Reader<sup>®</sup></li> <li>● Google Chrome</li> <li>● Google Toolbar</li> <li>● RapidBoot HDD Accelerator</li> <li>● Symantec<sup>™</sup> VIP</li> <li>● Windows Live<sup>™</sup> Essentials</li> <li>● Corel<sup>®</sup> Burn.Now<sup>™</sup> (DVD±RW)</li> <li>● Corel DVD MovieFactory<sup>®</sup> (DVD±RW)</li> </ul> - <b>Windows 8 models</b> <ul style="list-style-type: none"> <li>● Lenovo Support</li> <li>● Lenovo Companion</li> <li>● Lenovo Cloud Storage</li> <li>● Lenovo QuickLaunch</li> <li>● Norton<sup>™</sup> Studio</li> <li>● Intel AppUp<sup>®</sup></li> <li>● AccuWeather</li> <li>● PC Device Stage</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> </ul> - <b>All models</b> <ul style="list-style-type: none"> <li>● ThinkVantage<sup>®</sup> System Update</li> <li>● View Management Utility</li> <li>● Lenovo Solution Center</li> <li>● Norton Internet Security (30 days of virus definitions)</li> <li>● Microsoft<sup>®</sup> Office preloaded; purchase a product key to activate</li> <li>● Evernote<sup>®</sup></li> <li>● Skype<sup>™</sup></li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington<sup>®</sup> MicroSaver<sup>®</sup> cable)</li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>										
	EPEAT <sup>™</sup> Gold rating ENERGY STAR <sup>®</sup> 5.2-compliant ULE Gold RoHS-compliant										
	Supports ThinkVantage Technologies										
	For compatible accessories, please go to O-M78 sheet; For ThinkPlus <sup>™</sup> service upgrade options, please go to S-TC sheet										
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										

See footnotes for important warranty information  
 US model(s) announced October 23 or 30, 2012  
 US model(s) withdrawn effective December 2013

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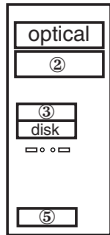


# ThinkCentre M78 Tower (2111) - TopSeller - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Chassis intr switch	PS/2 port	ENERGY STAR 5.2	Win7 Global preload	Ann date (mm/dd/yy)
2111-A1U	4x5	A4-5300	2GBx1	250G 7200	Bay	DVD±RW	None	Radeon HD 7480D	None	None	None	None	Pro 64 08/28/12
2111-A2U	4x5	A6-5400B	4GBx1	500G 7200	Bay	DVD±RW	None	Radeon HD 7540D	None	None	None	None	Pro 64 08/28/12
2111-A3U	4x5	A8-5500B	4GBx1	1TB 7200	Bay	DVD±RW	None	Radeon HD 7560D	None	None	None	None	Pro 64 08/28/12
2111-A4U	4x5	A8-5500B	4GBx1	1TB 7200	Bay	DVD±RW	None	GeForce 605	None	None	None	None	Pro 64 08/28/12

- Small and medium business (SMB) model(s), part of the US TopSeller Program
- 3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										<b>Preloaded operating system</b>		
Processor	<p><b>AMD Accelerated Processor A4-5300</b> (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics, integrated DDR3 memory controller (up to 1600MHz)</p> <p><b>AMD Accelerated Processor A6-5400B</b> (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz)</p> <p><b>AMD Accelerated Processor A8-5500B</b> (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core technology (up to 3.7GHz), integrated AMD Radeon HD 7560D Graphics, integrated DDR3 memory controller (up to 1866MHz)</p>										Genuine Windows® 7 Professional 64		
Implementation	Processor in Socket FM2										<b>Ready to install applications</b> (only some listed)		
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> <li>• Business-in-a-Box</li> </ul>		
Graphics	<p><i>Some:</i> <b>AMD Radeon HD Graphics</b>, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution:</i> 1920x1200 (VGA)@60Hz; 2560x2048 (DP)@60Hz</p> <p><i>Some:</i> <b>NVIDIA® GeForce® 605</b>, PCI Express® 2.0 x16 adapter, DirectX 11, 512MB, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I)@60Hz</p>										<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Google Chrome</li> <li>• Google Toolbar</li> <li>• Skype™ for Windows</li> <li>• Evernote®</li> <li>• RapidBoot HDD Accelerator</li> <li>• Symantec™ VIP</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>		
DP dongle	None												
Disk	SATA 6.0Gb/s 7200 rpm												
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive												
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1												
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar												
eSATA port	None												
Media reader	None												
Chipset	<b>AMD A75 Chipset</b>												
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)												
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)												
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)												
Audio	High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker	Internal speaker for business audio												
IEEE 1394	None												
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®												
Modem	None												
Security chip	Trusted Platform Module (TPM 1.2-compliant)												
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Power supply	280 watts with variable speed fan, manual switch												
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 27.5 lb (12.5 kg) in maximum configuration</li> <li>• Toolless cover removal, toolless adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>												
Bay	<p>Bay 1: 5.25", 1.6" high, access, std optical</p> <p>Bay 2: 5.25", 1.6" high, access, open</p> <p>Bay 3: 3.5", 1" high, access, opt reader</p> <p>Bay 4: 3.5", 1" high, no access, std disk</p> <p>Bay 5: 3.5", 1" high, no access, opt disk</p>												
Slot	<p>Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max)</p> <p>Slot 2: half-length, full-height, PCIe 2.0 x1</p> <p>Slot 3: half-length, full-height, 32-bit PCI 2.3</p> <p>Slot 4: half-length, full-height, 32-bit PCI 2.3</p>										<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>		
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										RoHS-compliant		
											Supports ThinkVantage Technologies		
											For compatible accessories, please go to O-M78 sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet		

See footnotes for important warranty information  
 US model(s) announced August 28, 2012  
 US model(s) withdrawn effective December 2013

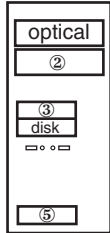
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 (ANDE1-5) January 2014

# ThinkCentre M78 Tower (2111) - TopSeller (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB	2nd Disk rpm	Bay	SATA optical	Media reader	Graphics	Chassis intr switch	PS/2 port	ENERGY STAR 5.2 Global	Ann date (mm/dd/yy)
2111-B2U	4x5	A4-5300	2GBx1	250G	7200	Bay	DVD±RW	None	Radeon HD 7480D	None	None	None	Win8 Pro64 10/23/12
2111-B3U	4x5	A6-5400B	4GBx1	500G	7200	Bay	DVD±RW	None	Radeon HD 7540D	None	None	None	Win8 Pro64 10/23/12
2111-C2U	4x5	A4-5300	2GBx1	250G	7200	Bay	DVD±RW	None	Radeon HD 7480D	None	None	None	Win7 Pro64 10/30/12
2111-C3U	4x5	A6-5400B	4GBx1	500G	7200	Bay	DVD±RW	None	Radeon HD 7540D	None	None	None	Win7 Pro64 10/30/12

- Small and medium business (SMB) model(s), part of the US TopSeller Program
- 3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>											
Processor	<b>AMD Accelerated Processor A4-5300</b> (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics, integrated DDR3 memory controller (up to 1600MHz) <b>AMD Accelerated Processor A6-5400B</b> (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz)											
Implementation	Processor in Socket FM2											
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											
Graphics	<b>AMD Radeon HD Graphics</b> , integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution: 1920x1200 (VGA) @60Hz; 2560x2048 (DisplayPort) @60Hz</i>											
DP dongle	None											
Disk	SATA 6.0Gb/s 7200 rpm											
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1											
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar											
eSATA port	None											
Media reader	None											
Chipset	<b>AMD A75 Chipset</b>											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Modem	None											
Security chip	Trusted Platform Module (TPM 1.2-compliant)											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Power supply	280 watts with variable speed fan, manual switch											
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 27.5 lb (12.5 kg) in maximum configuration</li> <li>• Toolless cover removal, toolless adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>											
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk											
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3											
												
	<b>Preloaded operating system</b> <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 8 Pro 64-bit											
	<b>Preloaded applications</b> (only some listed) <b>- Windows 7 models</b> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• Lenovo® Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Google Chrome</li> <li>• Google Toolbar</li> <li>• RapidBoot HDD Accelerator</li> <li>• Symantec™ VIP</li> <li>• Windows Live™ Essentials</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul> <b>- Windows 8 models</b> <ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Lenovo QuickLaunch</li> <li>• Norton™ Studio</li> <li>• Intel AppUp®</li> <li>• AccuWeather</li> <li>• PC Device Stage</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul> <b>- All models</b> <ul style="list-style-type: none"> <li>• ThinkVantage® System Update</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Evernote™</li> <li>• Skype™</li> </ul>											
	<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>											
	RoHS-compliant											
	Supports ThinkVantage Technologies											
	For compatible accessories, please go to O-M78 sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet											
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											

See footnotes for important warranty information  
 US model(s) announced October 23 or 30, 2012  
 US model(s) withdrawn effective December 2013

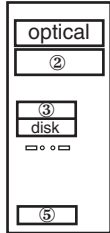
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# ThinkCentre M78 Tower (1766) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Chassis intr switch	PS/2 port	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
1766-A7U	4x5	A6-5400B	4GBx1	500G 7200	Bay	DVD±RW	None	Radeon HD 7540D	None	None	None	Pro 32	08/28/12
1766-B1U	4x5	A4-5300	2GBx1	250G 7200	Bay	DVD±RW	None	Radeon HD 7480D	None	None	None	Pro 64	08/28/12
1766-B2U	4x5	A4-5300	2GBx1	250G 7200	Bay	DVD±RW	None	Radeon HD 7480D	None	None	None	Prem 32	08/28/12
1766-B3U	4x5	A8-5500B	4GBx1	1TB 7200	Bay	DVD±RW	None	Radeon HD 7560D	None	None	None	Pro 64	08/28/12
1766-B4U	4x5	A6-5400B	4GBx1	500G 7200	Bay	DVD±RW	None	Radeon HD 7540D	None	None	None	Pro 64	08/28/12

●3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>								<b>Preloaded operating system</b>				
Processor	<b>AMD Accelerated Processor A4-5300</b> (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics, integrated DDR3 memory controller (up to 1600MHz) <b>AMD Accelerated Processor A6-5400B</b> (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz) <b>AMD Accelerated Processor A8-5500B</b> (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core technology (up to 3.7GHz), integrated AMD Radeon HD 7560D Graphics, integrated DDR3 memory controller (up to 1866MHz)								<b>Some:</b> Genuine Windows® 7 Professional 32 <b>Some:</b> Genuine Windows 7 Professional 64 <b>Some:</b> Genuine Windows 7 Home Premium 32				
Implementation	Processor in Socket FM2								<b>Ready to install applications</b> (only some listed)				
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets								<ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> <li>● Business-in-a-Box</li> </ul>				
Graphics	<b>AMD Radeon HD Graphics</b> , integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution:</i> 1920x1200 (VGA) @60Hz; 2560x2048 (DisplayPort) @60Hz								<b>Preloaded applications</b> (only some listed)				
DP dongle	None								<ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Lenovo Simple Tap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Google Chrome</li> <li>● Google Toolbar</li> <li>● Skype™ for Windows</li> <li>● Evernote®</li> <li>● RapidBoot HDD Accelerator</li> <li>● Symantec™ VIP</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
Disk	SATA 6.0Gb/s 7200 rpm												
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive												
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1												
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar												
eSATA port	None												
Media reader	None												
Chipset	<b>AMD A75 Chipset</b>												
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)												
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)												
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)												
Audio	High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker	Internal speaker for business audio												
IEEE 1394	None												
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®												
Modem	None												
Security chip	Trusted Platform Module (TPM 1.2-compliant)												
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Power supply	280 watts with variable speed fan, manual switch												
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 6.9" W X 17.4" D X 16.3" H</li> <li>● 175mm W X 442mm D X 414mm H</li> <li>● 27.5 lb (12.5 kg) in maximum configuration</li> <li>● Toolless cover removal, toolless adapter retention</li> <li>● Toolless disk, optical drive removal</li> </ul>												
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk												
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3												
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available								<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>				
									RoHS-compliant				
									Supports ThinkVantage Technologies				
									For compatible accessories, please go to O-M78 sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information  
 US model(s) announced August 28, 2012  
 US model(s) withdrawn effective December 2013

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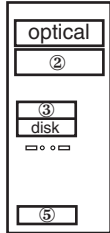


# ThinkCentre M78 Tower (1562) - ENERGY STAR® 5.2 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Chassis intr switch	PS/2 port	ENERGY STAR 5.2	Win7 Global preload	Ann date (mm/dd/yy)
1562-A1U	4x5	A4-5300	2GBx1	250G 7200	Bay	DVD±RW	None	Radeon HD 7480D	None	None	ES52	None	Pro 32 08/28/12
1562-C1U	4x5	A4-5300	2GBx1	250G 7200	Bay	DVD±RW	None	Radeon HD 7480D	None	None	ES52	None	Prem 32 08/28/12
1562-C2U	4x5	A4-5300	2GBx1	250G 7200	Bay	DVD±RW	None	Radeon HD 7480D	None	None	ES52	None	Pro 64 08/28/12
1562-C3U	4x5	A6-5400B	4GBx1	500G 7200	Bay	DVD±RW	None	Radeon HD 7540D	None	None	ES52	None	Pro 64 08/28/12
1562-C4U	4x5	A8-5500B	4GBx1	1TB 7200	Bay	DVD±RW	None	Radeon HD 7560D	None	None	ES52	None	Pro 64 08/28/12
1562-C5U	4x5	A8-5500B	4GBx1	1TB 7200	Bay	DVD±RW	None	GeForce 605	None	None	ES52	None	Pro 64 08/28/12

●3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										<b>Preloaded operating system</b>		
Processor	<p><b>AMD Accelerated Processor A4-5300</b> (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics, integrated DDR3 memory controller (up to 1600MHz)</p> <p><b>AMD Accelerated Processor A6-5400B</b> (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz)</p> <p><b>AMD Accelerated Processor A8-5500B</b> (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core technology (up to 3.7GHz), integrated AMD Radeon HD 7560D Graphics, integrated DDR3 memory controller (up to 1866MHz)</p>										<p><i>Some:</i> Genuine Windows® 7 Professional 32</p> <p><i>Some:</i> Genuine Windows 7 Professional 64</p> <p><i>Some:</i> Genuine Windows 7 Home Premium 32</p>		
Implementation	Processor in Socket FM2										<b>Ready to install applications</b> (only some listed)		
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> <li>● Business-in-a-Box</li> </ul>		
Graphics	<p><i>Some:</i> <b>AMD Radeon HD Graphics</b>, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution:</i> 1920x1200 (VGA)@60Hz; 2560x2048 (DP)@60Hz</p> <p><i>Some:</i> <b>NVIDIA® GeForce® 605</b>, PCI Express® 2.0 x16 adapter, DirectX 11, 512MB, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I)@60Hz</p>										<b>Preloaded applications</b> (only some listed)		
DP dongle	None										<ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Lenovo Simple Tap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Google Chrome</li> <li>● Google Toolbar</li> <li>● Skype™ for Windows</li> <li>● Evernote®</li> <li>● RapidBoot HDD Accelerator</li> <li>● Symantec™ VIP</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> <li>● InterVideo WinDVD® (DVD, DVD±RW)</li> </ul>		
Disk	SATA 6.0Gb/s 7200 rpm												
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive												
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1												
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar												
eSATA port	None												
Media reader	None												
Chipset	<b>AMD A75 Chipset</b>												
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)												
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)												
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)												
Audio	High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker	Internal speaker for business audio												
IEEE 1394	None												
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®												
Modem	None												
Security chip	Trusted Platform Module (TPM 1.2-compliant)												
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Power supply	280 watts, autosensing, 85% PSU												
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 6.9" W X 17.4" D X 16.3" H</li> <li>● 175mm W X 442mm D X 414mm H</li> <li>● 27.5 lb (12.5 kg) in maximum configuration</li> <li>● Toolless cover removal, toolless adapter retention</li> <li>● Toolless disk, optical drive removal</li> </ul>												
Bay	<p>Bay 1: 5.25", 1.6" high, access, std optical</p> <p>Bay 2: 5.25", 1.6" high, access, open</p> <p>Bay 3: 3.5", 1" high, access, opt reader</p> <p>Bay 4: 3.5", 1" high, no access, std disk</p> <p>Bay 5: 3.5", 1" high, no access, opt disk</p>												
Slot	<p>Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max)</p> <p>Slot 2: half-length, full-height, PCIe 2.0 x1</p> <p>Slot 3: half-length, full-height, 32-bit PCI 2.3</p> <p>Slot 4: half-length, full-height, 32-bit PCI 2.3</p>												
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										<p><b>Security</b></p> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>		
											<p>EPEAT™ Gold rating</p> <p>ENERGY STAR 5.2-compliant</p> <p>ULE Gold</p> <p>RoHS-compliant</p>		
											<p>Supports ThinkVantage Technologies</p>		
											<p>For compatible accessories, please go to O-M78 sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet</p>		

See footnotes for important warranty information  
US model(s) withdrawn effective December 2013

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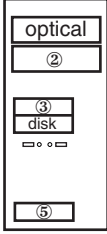


# ThinkCentre M78 Tower (1562) - ES 5.2 (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Chassis intr switch	PS/2 port	ENERGY STAR 5.2 Global	Preload	Ann date (mm/dd/yy)
1562-E1U	4x5	A4-5300	2GBx1	250G 7200	Bay	DVD±RW	None	Radeon HD 7480D	None	None	ES52	None	Win8 Pro64 10/23/12
1562-E2U	4x5	A6-5400B	4GBx1	500G 7200	Bay	DVD±RW	None	Radeon HD 7540D	None	None	ES52	None	Win8 Pro64 10/23/12
1562-E3U	4x5	A8-5500B	4GBx1	1TB 7200	Bay	DVD±RW	None	Radeon HD 7560D	None	None	ES52	None	Win8 Pro64 10/23/12
1562-E4U	4x5	A8-5500B	4GBx1	1TB 7200	Bay	DVD±RW	None	Radeon HD 7450	None	None	ES52	None	Win8 Pro64 10/23/12
1562-F1U	4x5	A4-5300	2GBx1	250G 7200	Bay	DVD±RW	None	Radeon HD 7480D	None	None	ES52	None	Win7 Pro64 10/30/12

●3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										
Processor	<p><b>AMD Accelerated Processor A4-5300</b> (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics, integrated DDR3 memory controller (up to 1600MHz)</p> <p><b>AMD Accelerated Processor A6-5400B</b> (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz)</p> <p><b>AMD Accelerated Processor A8-5500B</b> (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core technology (up to 3.7GHz), integrated AMD Radeon HD 7560D Graphics, integrated DDR3 memory controller (up to 1866MHz)</p>										
Implementation	Processor in Socket FM2										
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										
Graphics	<p><i>Some:</i> <b>AMD Radeon HD Graphics</b>, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution:</i> 1920x1200 (VGA)@60Hz; 2560x2048 (DP)@60Hz</p> <p><i>Some:</i> <b>AMD Radeon HD 7450</b>, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors</p>										
DP dongle	None										
Disk	SATA 6.0Gb/s 7200 rpm										
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1										
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar										
eSATA port	None										
Media reader	None										
Chipset	<b>AMD A75 Chipset</b>										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)										
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec										
Speaker	Internal speaker for business audio										
IEEE 1394	None										
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®										
Modem	None										
Security chip	Trusted Platform Module (TPM 1.2-compliant)										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Power supply	280 watts, autosensing, 85% PSU										
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 6.9" W X 17.4" D X 16.3" H</li> <li>● 175mm W X 442mm D X 414mm H</li> <li>● 27.5 lb (12.5 kg) in maximum configuration</li> <li>● Toolless cover removal, toolless adapter retention</li> <li>● Toolless disk, optical drive removal</li> </ul>										
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk										
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3										
											
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										
	<b>Preloaded operating system</b> <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 8 Pro 64-bit <b>Preloaded applications</b> (only some listed) <b>- Windows 7 models</b> <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Power Manager</li> <li>● Lenovo® Message Center Plus</li> <li>● Lenovo SimpleTap</li> <li>● Adobe® Reader®</li> <li>● Google Chrome</li> <li>● Google Toolbar</li> <li>● RapidBoot HDD Accelerator</li> <li>● Symantec™ VIP</li> <li>● Windows Live™ Essentials</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul> <b>- Windows 8 models</b> <ul style="list-style-type: none"> <li>● Lenovo Support</li> <li>● Lenovo Companion</li> <li>● Lenovo Cloud Storage</li> <li>● Lenovo QuickLaunch</li> <li>● Norton™ Studio</li> <li>● Intel AppUp®</li> <li>● AccuWeather</li> <li>● PC Device Stage</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> </ul> <b>- All models</b> <ul style="list-style-type: none"> <li>● ThinkVantage® System Update</li> <li>● View Management Utility</li> <li>● Lenovo Solution Center</li> <li>● Norton Internet Security (30 days of virus definitions)</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Evernote®</li> <li>● Skype™</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>										
	EPEAT™ Gold rating ENERGY STAR 5.2-compliant ULE Gold RoHS-compliant										
	Supports ThinkVantage Technologies										
	For compatible accessories, please go to O-M78 sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet										

See footnotes for important warranty information  
 US model(s) announced October 23 or 30, 2012  
 US model(s) withdrawn effective December 2013

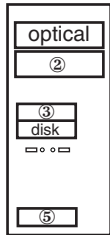
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# ThinkCentre M78 Tower (1565) - ES 5.2 (GMP) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Chassis intr switch	PS/2 port	ENERGY STAR 5.2	Global (G) GMP (P)	Win7 preload	Ann date (mm/dd/yy)
1565-A1U	4x5	A6-5400B	4GBx1	500G 7200	Bay	DVD±RW	None	Radeon HD 7540D	None	None	ES52	G P	Pro 64	08/28/12

●Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										<b>Preloaded operating system</b>			
Processor	<b>AMD Accelerated Processor A6-5400B</b> (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz)										Genuine Windows® 7 Professional 64			
Implementation	Processor in Socket FM2										<b>Ready to install applications</b> (only some listed)			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> <li>Business-in-a-Box</li> </ul>			
Graphics	<b>AMD Radeon HD Graphics</b> , integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution: 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz</i>										<b>Preloaded applications</b> (only some listed)			
DP dongle	None										<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>View Management Utility</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Lenovo SimpleTap</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Google Chrome</li> <li>Google Toolbar</li> <li>Skype™ for Windows</li> <li>Evernote®</li> <li>RapidBoot HDD Accelerator</li> <li>Symantec™ VIP</li> <li>Windows Live™ Essentials</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Corel® Burn.Now™ (DVD±RW)</li> <li>Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Disk	SATA 6.0Gb/s 7200 rpm													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1													
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar													
eSATA port	None													
Media reader	None													
Chipset	<b>AMD A75 Chipset</b>													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)													
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®													
Modem	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	280 watts, autosensing, 85% PSU													
Machine	<ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>6.9" W X 17.4" D X 16.3" H</li> <li>175mm W X 442mm D X 414mm H</li> <li>27.5 lb (12.5 kg) in maximum configuration</li> <li>Toolless cover removal, toolless adapter retention</li> <li>Toolless disk, optical drive removal</li> </ul>													
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk													
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3													
														
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Cable lock</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>			
											EPEAT™ Gold rating ENERGY STAR 5.2-compliant ULE Gold RoHS-compliant			
											Supports ThinkVantage Technologies			
											For compatible accessories, please go to O-M78 sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information  
 US model(s) announced August 28, 2012  
 US model(s) withdrawn effective December 2013

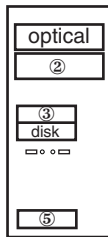
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 (ANDE1-8) January 2014

# ThinkCentre M78 Tower (1565) - ES 5.2 (GMP) - Win 8 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB	2nd Disk rpm	Disk Bay	SATA optical	Media reader	Graphics	Chassis intr switch	PS/2 port	ENERGY STAR 5.2	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
1565-B1U	4x5	A6-5400B	4GBx1	500G	7200	Bay	DVD±RW	None	Radeon HD 7540D	None	None	ES52	G P	Win8 Pro64	10/23/12
1565-C1U	4x5	A6-5400B	4GBx1	500G	7200	Bay	DVD±RW	None	Radeon HD 7540D	None	None	ES52	G P	Win7 Pro64	10/30/12

●Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b>			
Processor	<b>AMD Accelerated Processor A6-5400B</b> (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz)											Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit			
Implementation	Processor in Socket FM2											Some: Windows 8 Pro 64-bit			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets														
Graphics	<b>AMD Radeon HD Graphics</b> , integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution: 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz</i>														
DP dongle	None														
Disk	SATA 6.0Gb/s 7200 rpm														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1														
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar														
eSATA port	None														
Media reader	None														
Chipset	<b>AMD A75 Chipset</b>														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)														
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®														
Modem	None														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	280 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 27.5 lb (12.5 kg) in maximum configuration</li> <li>• Toolless cover removal, toolless adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk														
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3														
															
	<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>														
	EPEAT™ Gold rating ENERGY STAR 5.2-compliant ULE Gold RoHS-compliant														
	Supports ThinkVantage Technologies														
	For compatible accessories, please go to O-M78 sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet														
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

See footnotes for important warranty information  
 US model(s) announced October 23 or 30, 2012  
 US model(s) withdrawn effective December 2013

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 (ANDE1-15) January 2014



# ThinkCentre M82 Small and Tower



Lenovo ThinkCentre M82  
Small and Tower



Lenovo ThinkCentre M82 Tower  
with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M82 Small



Lenovo ThinkCentre M82 Small  
with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M82 Tower



Lenovo ThinkCentre M82 Tower



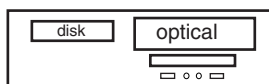
# ThinkCentre M82 Small (3306) - TopSeller - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
3306-A1U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64 06/19/12
3306-A2U	4x3	i5-3470	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64 06/19/12
3306-A3U	4x3	i5-3470	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64 06/19/12
3306-A4U	4x3	i5-3470	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	None	None	Pro 64 06/19/12
3306-A5U	4x3	i5-3470	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 7350	None	None	Stand	None	None	Pro 64 06/19/12
3306-A6U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 7350	None	None	Stand	None	None	Pro 64 06/19/12
3306-D1U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64 07/10/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>										
Implementation	Processor in LGA1155 socket										
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										
Graphics	<i>Some: Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i> <i>Some: AMD Radeon™ HD 7350, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; Maximum resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz; works along with Intel HD Graphics to support up to four independent monitors</i> <i>Some: AMD Radeon HD 7450, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; Maximum resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz; works along with Intel HD Graphics to support up to four independent monitors</i>										
DP dongle	None										
Disk	SATA 6.0Gb/s 7200 rpm										
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset										
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector										
eSATA port	None										
Media reader	None										
Chipset	<b>Intel Q75 Express Chipset</b>										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)										
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec										
Speaker	Internal speaker for business audio										
IEEE 1394	None										
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®										
Manageability	Intel Standard Manageability										
Modem	None										
Security chip	Trusted Platform Module (TPM 1.2-compliant)										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Floor Stand	System floor stand for vertical orientation										
Power supply	240 watts, autosensing, active Power Factor Correction										
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.3" W X 15.2" D X 3.9" H</li> <li>• 338mm W X 385mm D X 100mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless adapter retention</li> </ul>										
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader										
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3										
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										
	<b>Preloaded operating system</b> Genuine Windows® 7 Professional 64 <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>										
	GREENGUARD® certified RoHS-compliant										
	Supports ThinkVantage Technologies										
	For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet										



See footnotes for important warranty information  
US models announced June 19 or July 10, 2012

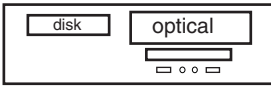
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(MDTN1-6) July 2012

# ThinkCentre M82 Small (3306) - TopSeller - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
3306-B1U	4x3	i3-2120	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2000	None	None	Stand	None	None	Pro 64 07/10/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										
Processor	<b>Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology										
Implementation	Processor in LGA1155 socket										
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										
Graphics	<b>Intel HD Graphics 2000</b> in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>										
DP dongle	None										
Disk	SATA 6.0Gb/s 7200 rpm										
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset										
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector										
eSATA port	None										
Media reader	None										
Chipset	<b>Intel Q75 Express Chipset</b>										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)										
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec										
Speaker	Internal speaker for business audio										
IEEE 1394	None										
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®										
Manageability	Intel Standard Manageability										
Modem	None										
Security chip	Trusted Platform Module (TPM 1.2-compliant)										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Floor Stand	System floor stand for vertical orientation										
Power supply	240 watts, autosensing, active Power Factor Correction										
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.3" W X 15.2" D X 3.9" H</li> <li>• 338mm W X 385mm D X 100mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless adapter retention</li> </ul>										
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader										
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3										
											
	<b>Preloaded operating system</b> Genuine Windows® 7 Professional 64 <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>										
	GREENGUARD® certified RoHS-compliant										
	Supports ThinkVantage Technologies										
	For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet										
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										

See footnotes for important warranty information  
US model announced July 10, 2012

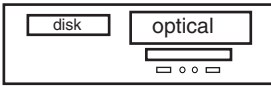
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(MDTN1-12) November 2013

# ThinkCentre M82 Small (3306) - TopSeller - III - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
3306-B2U	4x3	i5-3570	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64 07/10/12
3306-B3U	4x3	i7-3770	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 4000	None	None	Stand	None	None	Pro 64 07/10/12
3306-F1U	4x3	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64 09/04/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										<b>Preloaded operating system</b>		
Processor	<b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache)</b> , Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache)</b> , Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										Genuine Windows® 7 Professional 64  <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>		
Implementation	Processor in LGA1155 socket										<b>Preloaded applications</b> (only some listed)		
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>		
Graphics	<b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>												
DP dongle	None												
Disk	SATA 6.0Gb/s 7200 rpm												
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive												
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset												
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector												
eSATA port	None												
Media reader	None												
Chipset	<b>Intel Q75 Express Chipset</b>												
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort												
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)												
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector												
Audio	High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker	Internal speaker for business audio												
IEEE 1394	None												
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®												
Manageability	Intel Standard Manageability												
Modem	None												
Security chip	Trusted Platform Module (TPM 1.2-compliant)												
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Floor Stand	System floor stand for vertical orientation												
Power supply	240 watts, autosensing, active Power Factor Correction												
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.3" W X 15.2" D X 3.9" H</li> <li>• 338mm W X 385mm D X 100mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless adapter retention</li> </ul>										<b>Security</b>		
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader										<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>		
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3												
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet		

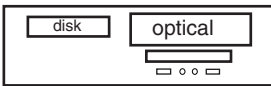
See footnotes for important warranty information  
 US models announced July 10 or September 4, 2012

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 (MDTN1-13) September 2012



# ThinkCentre M82 Small (3306) - TopSeller (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2 Global	Preload	Ann date (mm/dd/yy)
3306-C1U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Win8 Pro64 10/23/12
3306-F2U	4x3	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Win8 Pro64 10/23/12
3306-F3U	4x3	i7-3770	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 4000	None	None	Stand	None	None	Win8 Pro64 10/23/12
3306-F4U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Win8 Pro64 10/23/12
3306-G1U	4x3	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Win7 Pro64 10/23/12
3306-G2U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Win7 Pro64 10/23/12
3306-G3U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Win7 Pro64 10/23/12
3306-H1U	4x3	i7-3770	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	None	None	Win7 Pro64 03/05/13
3306-J1U	4x3	i7-3770	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	None	None	Win7 Pro64 03/12/13
3306-J2U	4x3	i5-3475S	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	None	None	Win7 Pro64 03/12/13
3306-J3U	4x3	i5-3475S	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	None	None	Win7 Pro64 03/12/13
Positioning	<i>Mainstream enterprise stability and manageability</i>												
Processor	<p><b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz)</p> <p><b>Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i5-3475S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p>												
Implementation	Processor in LGA1155 socket												
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets												
Graphics	<p><i>Some:</i> <b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display;  <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @60Hz</p> <p><i>Some:</i> <b>AMD Radeon™ HD 7450</b>, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts;  <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I) @60Hz;                      works along with Intel HD Graphics to support up to four independent monitors</p>												
DP dongle	None												
Disk	SATA 6.0Gb/s 7200 rpm												
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive												
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset												
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector												
eSATA port	None												
Media reader	None												
Chipset	<b>Intel Q75 Express Chipset</b>												
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort												
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)												
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector												
Audio	High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker	Internal speaker for business audio												
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®												
Manageability	Intel Standard Manageability												
Security chip	Trusted Platform Module (TPM 1.2-compliant)												
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Floor Stand	System floor stand for vertical orientation												
Power supply	240 watts, autosensing, active Power Factor Correction												
Machine	<ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>13.3" W X 15.2" D X 3.9" H</li> <li>338mm W X 385mm D X 100mm H</li> <li>16.5 lb (7.5 kg) in maximum configuration</li> <li>Toolless cover flips up and tilts backward on rear hinges</li> <li>Toolless disk and optical drive removal</li> <li>Toolless adapter retention</li> </ul>												
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader												
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3												
													
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available												

## Preloaded operating system

*Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

*Some:* Windows 8 Pro 64-bit

## Preloaded applications (only some listed) - Windows 7 models

- ThinkVantage® Product Recovery
  - ThinkVantage Communication Utility
  - ThinkVantage Power Manager
  - Lenovo® AppShop
  - Lenovo Message Center Plus
  - Lenovo SimpleTap
  - Adobe® Reader®
  - Windows Live™ Essentials
  - Corel® Burn.Now™ (DVD±RW)
  - Corel DVD MovieFactory® (DVD±RW)
- ### - Windows 8 models
- Lenovo Support
  - Lenovo Companion
  - Lenovo Cloud Storage
  - Norton™ Studio
  - AccuWeather
  - Evernote®
  - Cyberlink Power2Go (DVD±RW)
  - Cyberlink PowerProducer (DVD±RW)

## - All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

## Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

GREENGUARD® certified  
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;  
For Lenovo service upgrade options, please go to S-TC sheet



# ThinkCentre M82 Tower (3302) - TopSeller - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
3302-A1U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	Pro 64	06/19/12
3302-A2U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	Pro 32	06/19/12
3302-A3U	4x5	i5-3470	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 2500	None	None	None	Pro 64	06/19/12
3302-A4U	4x5	i5-3470	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 7350	None	None	None	Pro 64	06/19/12
3302-A5U	4x5	i5-3470	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	None	Pro 64	06/19/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										<b>Preloaded operating system</b>
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket</b>										<i>Some:</i> Genuine Windows® 7 Professional 32 <i>Some:</i> Genuine Windows 7 Professional 64
Implementation	Processor in LGA1155 socket										<b>Ready to install applications</b> (only some listed)
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										
Graphics	<i>Some:</i> <b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @60Hz <i>Some:</i> <b>AMD Radeon™ HD 7350</b> , DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I) @60Hz; works along with Intel HD Graphics to support up to four independent monitors <i>Some:</i> <b>AMD Radeon HD 7450</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I) @60Hz; works along with Intel HD Graphics to support up to four independent monitors										<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo Simple Tap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>
DP dongle	None										
Disk	SATA 6.0Gb/s 7200 rpm										
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset										
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector										
eSATA port	None										
Media reader	None										
Chipset	<b>Intel Q75 Express Chipset</b>										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)										
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec										
Speaker	Internal speaker for business audio										
IEEE 1394	None										
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®										
Manageability	Intel Standard Manageability										
Modem	None										
Security chip	Trusted Platform Module (TPM 1.2-compliant)										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Power supply	280 watts with variable speed fan, manual switch										
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 24.2 lb (11.0 kg) in maximum configuration</li> <li>• Toolless cover removal, toolless adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>										
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk										
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3										
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										
											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>
											<b>GREENGUARD® certified</b> <b>RoHS-compliant</b> Supports ThinkVantage Technologies
											For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US models announced June 19, 2012

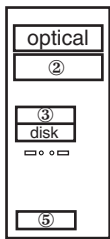
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(MDTN1-9) June 2012

# ThinkCentre M82 Tower (3302) - TopSeller - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
3302-B1U	4x5	i3-2120	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	Pro 64	07/10/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										<b>Preloaded operating system</b>		
Processor	<b>Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology</b> Processor in LGA1155 socket										Genuine Windows® 7 Professional 64		
Implementation	Processor in LGA1155 socket										<b>Ready to install applications</b> (only some listed)		
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>		
Graphics	<b>Intel HD Graphics 2000</b> in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>										<b>Preloaded applications</b> (only some listed)		
DP dongle	None										<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>		
Disk	SATA 6.0Gb/s 7200 rpm												
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive												
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset												
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector												
eSATA port	None												
Media reader	None												
Chipset	<b>Intel Q75 Express Chipset</b>												
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort												
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)												
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector												
Audio	High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker	Internal speaker for business audio												
IEEE 1394	None												
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®												
Manageability	Intel Standard Manageability												
Modem	None												
Security chip	Trusted Platform Module (TPM 1.2-compliant)												
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Power supply	280 watts with variable speed fan, manual switch												
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 24.2 lb (11.0 kg) in maximum configuration</li> <li>• Toolless cover removal, toolless adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>												
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk										<b>Security</b>		
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3										<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>		
											GREENGUARD® certified		
											RoHS-compliant		
											Supports ThinkVantage Technologies		
											For compatible accessories, please go to O-M82 sheet;		
											For Lenovo service upgrade options, please go to S-TC sheet		
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available												

See footnotes for important warranty information  
US model announced July 10, 2012

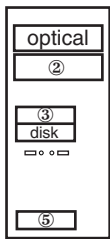
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# ThinkCentre M82 Tower (3302) - TopSeller - III - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
3302-B2U	4x5	i5-3570	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 2500	None	None	None	Pro 64	07/10/12
3302-B3U	4x5	i7-3770	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 4000	None	None	None	Pro 64	07/10/12
3302-E1U	4x5	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	Pro 64	09/04/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket		<b>Preloaded operating system</b> Genuine Windows® 7 Professional 64 <b>Ready to install applications</b> (only some listed) • Rescue and Recovery™ • Password Manager <b>Preloaded applications</b> (only some listed) • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • ThinkVantage Power Manager • View Management Utility • Lenovo AppShop • Lenovo Solution Center • Lenovo Message Center Plus • Lenovo SimpleTap • Norton™ Internet Security (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Windows Live™ Essentials • Microsoft® Office preloaded; purchase a product key to activate • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)
Implementation	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets		
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets		
Graphics	<b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>		
DP dongle	None		
Disk	SATA 6.0Gb/s 7200 rpm		
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive		
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset		
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector		
eSATA port	None		
Media reader	None		
Chipset	<b>Intel Q75 Express Chipset</b>		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
Speaker	Internal speaker for business audio		
IEEE 1394	None		
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®		
Manageability	Intel Standard Manageability		
Modem	None		
Security chip	Trusted Platform Module (TPM 1.2-compliant)		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo		
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo		
Power supply	280 watts with variable speed fan, manual switch		
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 24.2 lb (11.0 kg) in maximum configuration</li> <li>• Toolless cover removal, toolless adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>		<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk		
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3		
			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available		<b>GREENGUARD® certified</b> RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US models announced July 10 or September 4, 2012

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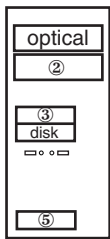


# ThinkCentre M82 Tower (3302) - TopSeller (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2 Global	Preload	Ann date (mm/dd/yy)
3302-C1U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win8 Pro64 10/23/12
3302-E2U	4x5	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win8 Pro64 10/23/12
3302-E3U	4x5	i5-3570	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win8 Pro64 10/23/12
3302-F1U	4x5	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win7 Pro64 10/23/12
3302-F2U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win7 Pro64 10/23/12
3302-F3U	4x5	i5-3570	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win7 Pro64 10/23/12
3302-H1U	4x5	i5-3475S	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	None	None	Win7 Pro64 03/12/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										
Processor	<b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3475S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										
Implementation											
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										
Graphics	<b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>										
DP dongle	None										
Disk	SATA 6.0Gb/s 7200 rpm										
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset										
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector										
eSATA port	None										
Media reader	None										
Chipset	<b>Intel Q75 Express Chipset</b>										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)										
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec										
Speaker	Internal speaker for business audio										
IEEE 1394	None										
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®										
Manageability	Intel Standard Manageability										
Modem	None										
Security chip	Trusted Platform Module (TPM 1.2-compliant)										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Power supply	280 watts with variable speed fan, manual switch										
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 24.2 lb (11.0 kg) in maximum configuration</li> <li>• Toolless cover removal, toolless adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>										
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk										
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3										
											
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										
	<b>Preloaded operating system</b> Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit <b>Preloaded applications (only some listed) - Windows 7 models</b> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• Lenovo® AppShop</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Windows Live™ Essentials</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul> <b>- Windows 8 models</b> <ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul> <b>- All models</b> <ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>										
	GREENGUARD® certified RoHS-compliant										
	Supports ThinkVantage Technologies										
	For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet										

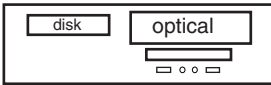


# ThinkCentre M82 Small (3395) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
3395-A2U	4x3	i3-2130	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2000	None	Stand	None	Pro 64	06/19/12
3395-C6U	4x3	i3-2120	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	Stand	None	Pro 64	06/19/12
3395-C7U	4x3	G850	2GBx1 1600MHz	250G 7200	DVD±RW	None	Intel HD	None	Stand	None	Pro 32	06/19/12

●3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>									
Processor	<p><b>Intel® Pentium® G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache)</b>, integrated Intel HD Graphics,</p> <p><b>Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b>, integrated Intel HD Graphics 2000,</p> <p><b>Intel Core i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache)</b>, integrated Intel HD Graphics 2000,</p> <p>integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket</p>									
Implementation										
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets									
Graphics	<p><b>Intel HD Graphics</b> or <b>Intel HD Graphics 2000</b> in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display;  <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i></p>									
DP dongle	None									
Disk	SATA 6.0Gb/s 7200 rpm									
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive									
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset									
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector									
eSATA port	None									
Media reader	None									
Chipset	<b>Intel Q75 Express Chipset</b>									
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)									
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort									
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)									
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector									
Audio	High Definition (HD) Audio, Realtek® ALC662 codec									
Speaker	Internal speaker for business audio									
IEEE 1394	None									
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®									
Manageability	Intel Standard Manageability									
Modem	None									
Security chip	Trusted Platform Module (TPM 1.2-compliant)									
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo									
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo									
Floor Stand	System floor stand for vertical orientation									
Power supply	240 watts, autosensing, active Power Factor Correction									
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 13.3" W X 15.2" D X 3.9" H</li> <li>● 338mm W X 385mm D X 100mm H</li> <li>● 16.5 lb (7.5 kg) in maximum configuration</li> <li>● Toolless cover flips up and tilts backward on rear hinges</li> <li>● Toolless disk and optical drive removal</li> <li>● Toolless adapter retention</li> </ul>									
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader									
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3									
										
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available									
	<p><b>Preloaded operating system</b></p> <p><i>Some:</i> Genuine Windows® 7 Professional 32</p> <p><i>Some:</i> Genuine Windows 7 Professional 64</p> <p><b>Ready to install applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul> <p><b>Preloaded applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo AppShop</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>									
	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>									
	GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies									
	For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet									

See footnotes for important warranty information  
 US models announced June 19, 2012

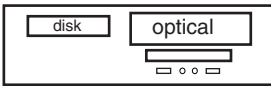
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# ThinkCentre M82 Small (3395) - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
3395-C4U	4x3	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	Pro 64	06/19/12
3395-C5U	4x3	i5-3550	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	Pro 64	06/19/12
3395-D5U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	Pro 32	06/19/12
3395-D6U	4x3	i5-3570	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	Pro 32	06/19/12
3395-G1U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	Pro 64	07/10/12

●3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										<b>Preloaded operating system</b>		
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										Some: Genuine Windows® 7 Professional 32 Some: Genuine Windows 7 Professional 64		
Implementation	Processor in LGA1155 socket										<b>Ready to install applications</b> (only some listed)		
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<b>Preloaded applications</b> (only some listed)		
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>										<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>View Management Utility</li> <li>Lenovo AppShop</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Lenovo SimpleTap</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™ for Windows</li> <li>Windows Live™ Essentials</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Corel® Burn.Now™ (DVD±RW)</li> <li>Corel DVD MovieFactory® (DVD±RW)</li> </ul>		
DP dongle	None												
Disk	SATA 6.0Gb/s 7200 rpm												
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive												
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset												
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector												
eSATA port	None												
Media reader	None												
Chipset	<b>Intel Q75 Express Chipset</b>												
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort												
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)												
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector												
Audio	High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker	Internal speaker for business audio												
IEEE 1394	None												
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®												
Manageability	Intel Standard Manageability												
Modem	None												
Security chip	Trusted Platform Module (TPM 1.2-compliant)												
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Floor Stand	System floor stand for vertical orientation												
Power supply	240 watts, autosensing, active Power Factor Correction												
Machine	<ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>13.3" W X 15.2" D X 3.9" H</li> <li>338mm W X 385mm D X 100mm H</li> <li>16.5 lb (7.5 kg) in maximum configuration</li> <li>Toolless cover flips up and tilts backward on rear hinges</li> <li>Toolless disk and optical drive removal</li> <li>Toolless adapter retention</li> </ul>										<b>Security</b>		
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader										<ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>Cable lock</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>		
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3												
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet		

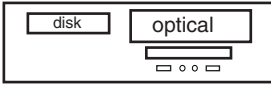
See footnotes for important warranty information  
US models announced June 19 or July 10, 2012

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(MDTN1-8) July 2012

# ThinkCentre M82 Small (3395) - Windows 8 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2 Global	Preload	Ann date (mm/dd/yy)
3395-H7U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	None	None	Win8 Pro64	10/23/12
3395-N1U	4x3	i3-2130	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	Stand	None	Win7 Pro64	10/23/12
3395-N2U	4x3	i3-2120	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	Stand	None	Win7 Pro64	10/23/12
3395-N3U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	Win7 Pro64	10/23/12
3395-AAU	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	Win7 Pro64	11/27/12
3395-R1U	4x3	G2120	4GBx1 1600MHz	500G 7200	DVD±RW	None	Intel HD	None	None	Stand	None	Win7 Pro64	12/04/12
3395-R2U	4x3	G2020	4GBx1 1600MHz	500G 7200	DVD±RW	None	Intel HD	None	None	Stand	None	Win7 Pro64	01/22/13
3395-CAU	4x3	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	Win7 Pro64	03/05/13
3395-DAU	4x3	i5-3475S	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	None	Win7 Pro64	03/12/13

Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b>	
Processor	<b>Intel® Pentium® G2020 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) <b>Intel Pentium G2120 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1600MHz) <b>Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1333MHz) <b>Intel Core i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1333MHz) <b>Intel Core i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz) <b>Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3475S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology											Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit	
Implementation	Processor in LGA1155 socket											<b>Preloaded applications</b> (only some listed)	
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<b>- Windows 7 models</b>	
Graphics	<b>Intel HD Graphics / 2000 / 2500 / 4000</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i> None											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• Lenovo® AppShop</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Windows Live™ Essentials</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>	
DP dongle	None											<b>- Windows 8 models</b>	
Disk	SATA 6.0Gb/s 7200 rpm											<ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul>	
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											<b>- All models</b>	
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset											<ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>	
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector												
eSATA port	None												
Media reader	None												
Chipset	<b>Intel Q75 Express Chipset</b>												
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort												
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)												
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector												
Audio	High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker	Internal speaker for business audio												
IEEE 1394	None												
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®												
Manageability	Intel Standard Manageability												
Modem	None												
Security chip	Trusted Platform Module (TPM 1.2-compliant)												
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											<b>Security</b>	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>	
Floor Stand	Some: System floor stand for vertical orientation												
Power supply	240 watts, autosensing, active Power Factor Correction												
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.3" W X 15.2" D X 3.9" H</li> <li>• 338mm W X 385mm D X 100mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless adapter retention</li> </ul>												
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader												
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3											<b>GREENGUARD® certified</b> <b>RoHS-compliant</b> Supports ThinkVantage Technologies	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet	

See footnotes for important warranty information

US models announced Oct 23, 2012, Nov 27, 2012, Dec 4, 2012, Jan 22, 2013, Mar 5, 2013, or Mar 12 2013

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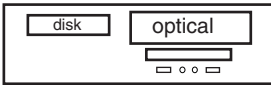


# ThinkCentre M82 Small (2756) - ENERGY STAR 5.2 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
2756-D3U	4x3	i3-2120	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	Stand	ES52	None	Pro 64 06/05/12
2756-D4U	4x3	G850	2GBx1 1600MHz	250G 7200	DVD±RW	None	Intel HD	None	Stand	ES52	None	Pro 64 06/05/12
2756-D5U	4x3	G630	2GBx1 1600MHz	250G 7200	DVD±RW	None	Intel HD	None	Stand	ES52	None	Pro 64 06/05/12
2756-D6U	4x3	i3-2120	4GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	Stand	ES52	None	Pro 64 06/05/12

●3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>									
Processor	<b>Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Pentium G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket									
Implementation										
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets									
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 2000</b> in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>									
DP dongle	None									
Disk	SATA 6.0Gb/s 7200 rpm									
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive									
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset									
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector									
eSATA port	None									
Media reader	None									
Chipset	<b>Intel Q75 Express Chipset</b>									
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)									
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort									
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)									
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector									
Audio	High Definition (HD) Audio, Realtek® ALC662 codec									
Speaker	Internal speaker for business audio									
IEEE 1394	None									
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®									
Manageability	Intel Standard Manageability									
Modem	None									
Security chip	Trusted Platform Module (TPM 1.2-compliant)									
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo									
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo									
Floor Stand	System floor stand for vertical orientation									
Power supply	240 watts, autosensing, 85% PSU									
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 13.3" W X 15.2" D X 3.9" H</li> <li>● 338mm W X 385mm D X 100mm H</li> <li>● 16.5 lb (7.5 kg) in maximum configuration</li> <li>● Toolless cover flips up and tilts backward on rear hinges</li> <li>● Toolless disk and optical drive removal</li> <li>● Toolless adapter retention</li> </ul>									
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader									
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3									
										
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available									
	<b>Preloaded operating system</b> Genuine Windows® 7 Professional 64 <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo AppShop</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>									
	<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>									
	EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies									
	For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet									

See footnotes for important warranty information  
US models announced June 5, 2012

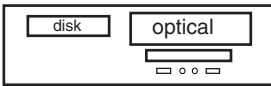


# ThinkCentre M82 Small (2756) - ENERGY STAR 5.2 - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
2756-B1U	4x3	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Pro 64 06/05/12
2756-B3U	4x3	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Pro 64 06/05/12
2756-D1U	4x3	i5-3550	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Pro 64 06/05/12
2756-D2U	4x3	i7-3770	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	None	Pro 64 06/05/12
2756-D7U	4x3	i5-3550	4GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Pro 64 06/05/12
2756-F1U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Pro 32 06/05/12
2756-F2U	4x3	i5-3570	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Pro 32 06/05/12
2756-F3U	4x3	i7-3770	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	None	Pro 32 06/05/12
2756-F4U	4x3	i5-3470	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Pro 64 06/05/12

●3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>		<p><b>Preloaded operating system</b></p> <p><i>Some:</i> Genuine Windows® 7 Professional 32</p> <p><i>Some:</i> Genuine Windows 7 Professional 64</p> <p><b>Ready to install applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul> <p><b>Preloaded applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo AppShop</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel™ Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>
Processor	<p><b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b></p> <p><b>Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b></p> <p><b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b></p> <p><b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b></p> <p>Processor in LGA1155 socket</p>		
Implementation	Processor in LGA1155 socket		
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets		
Graphics	<b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>		
DP dongle	None		
Disk	SATA 6.0Gb/s 7200 rpm		
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive		
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset		
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector		
eSATA port	None		
Media reader	None		
Chipset	<b>Intel Q75 Express Chipset</b>		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
Speaker	Internal speaker for business audio		
IEEE 1394	None		
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®		
Manageability	Intel Standard Manageability		
Modem	None		
Security chip	Trusted Platform Module (TPM 1.2-compliant)		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo		
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo		
Floor Stand	System floor stand for vertical orientation		
Power supply	240 watts, autosensing, 85% PSU		
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 13.3" W X 15.2" D X 3.9" H</li> <li>● 338mm W X 385mm D X 100mm H</li> <li>● 16.5 lb (7.5 kg) in maximum configuration</li> <li>● Toolless cover flips up and tilts backward on rear hinges</li> <li>● Toolless disk and optical drive removal</li> <li>● Toolless adapter retention</li> </ul>		
Bay	<p>Bay 1: 5.25", 1.6" high, access, std optical</p> <p>Bay 2: 3.5", 1" high, no access, std disk</p> <p>Bay 3: 3.5", .5" high, access, opt reader</p>		
Slot	<p>Slot 1: Low Profile, PCI Express 2.0 x16 (45w max)</p> <p>Slot 2: Low Profile, PCIe 2.0 x1</p> <p>Slot 3: Low Profile, 32-bit PCI 2.3</p> <p>Slot 4: Low Profile, 32-bit PCI 2.3</p>		
			
Limited Warranty	<p><b>3-years, limited onsite service</b>, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available</p>		
	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>		
	<p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 5.2-compliant</p> <p>ULE Gold</p> <p>GREENGUARD® certified</p> <p>RoHS-compliant</p>		
	<p>Supports ThinkVantage Technologies</p>		
	<p>For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet</p>		

See footnotes for important warranty information  
US models announced June 5, 2012

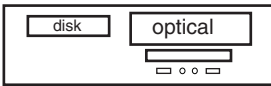
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(MDTN1-2) November 2012

# ThinkCentre M82 Small (2756) - ES 5.2 (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2 Global	Preload	Ann date (mm/dd/yy)
2756-J2U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win8 Pro64 10/23/12
2756-L4U	4x3	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win8 Pro64 10/23/12
2756-L5U	4x3	i3-3240	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win8 Pro64 10/23/12
2756-L6U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win8 Pro64 10/23/12
2756-L7U	4x3	i7-3770	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	ES52	None	Win8 Pro64 10/23/12

●3-year limited warranty

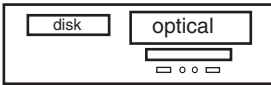
Positioning Processor	<p><i>Mainstream enterprise stability and manageability</i></p> <p><b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller</p> <p><b>Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller</p> <p><b>Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Processor in LGA1155 socket</p>										<p><b>Preloaded operating system</b></p> <p>Windows® 8 Pro 64-bit</p> <p><b>Preloaded applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>● ThinkVantage® System Update</li> <li>● View Management Utility</li> <li>● Lenovo® Support</li> <li>● Lenovo Companion</li> <li>● Lenovo Cloud Storage</li> <li>● Lenovo QuickLaunch</li> <li>● Lenovo Solution Center</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Norton Studio</li> <li>● Intel AppUp®</li> <li>● AccuWeather</li> <li>● PC Device Stage</li> <li>● Evernote®</li> <li>● Skype™</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> </ul>
Implementation	Processor in LGA1155 socket										
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										
Graphics	<p><i>Some:</i> <b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display;</p> <p><i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @60Hz</p> <p><i>Some:</i> <b>AMD Radeon™ HD 7450</b>, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts;</p> <p><i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I) @60Hz;</p> <p>works along with Intel HD Graphics to support up to four independent monitors</p>										
DP dongle	None										
Disk	SATA 6.0Gb/s 7200 rpm										
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset										
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector										
eSATA port	None										
Media reader	None										
Chipset	<b>Intel Q75 Express Chipset</b>										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)										
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec										
Speaker	Internal speaker for business audio										
IEEE 1394	None										
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®										
Manageability	Intel Standard Manageability										
Modem	None										
Security chip	Trusted Platform Module (TPM 1.2-compliant)										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Floor Stand	System floor stand for vertical orientation										
Power supply	240 watts, autosensing, 85% PSU										
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 13.3" W X 15.2" D X 3.9" H</li> <li>● 338mm W X 385mm D X 100mm H</li> <li>● 16.5 lb (7.5 kg) in maximum configuration</li> <li>● Toolless cover flips up and tilts backward on rear hinges</li> <li>● Toolless disk and optical drive removal</li> <li>● Toolless adapter retention</li> </ul>										
Bay	<p>Bay 1: 5.25", 1.6" high, access, std optical</p> <p>Bay 2: 3.5", 1" high, no access, std disk</p> <p>Bay 3: 3.5", .5" high, access, opt reader</p>										
Slot	<p>Slot 1: Low Profile, PCI Express 2.0 x16 (45w max)</p> <p>Slot 2: Low Profile, PCIe 2.0 x1</p> <p>Slot 3: Low Profile, 32-bit PCI 2.3</p> <p>Slot 4: Low Profile, 32-bit PCI 2.3</p>										
Limited Warranty	<p><b>3-years, limited onsite service</b>, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available</p>										<p><b>Security</b></p> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul> <p>EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet</p>

# ThinkCentre M82 Small (2756) - ES 5.2 (Win 8) - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2 Global	Preload	Ann date (mm/dd/yy)
2756-N3U	4x3	i5-3570	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win7 Pro64 10/23/12
2756-N4U	4x3	i3-2130	4GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	Stand	ES52	None	Win7 Pro64 10/23/12
2756-N5U	4x3	i3-2130	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	Stand	ES52	None	Win7 Pro64 10/23/12
2756-N6U	4x3	G870	2GBx1 1600MHz	250G 7200	DVD±RW	None	Intel HD	None	None	Stand	ES52	None	Win7 Pro64 10/23/12
2756-N7U	4x3	G640	2GBx1 1600MHz	250G 7200	DVD±RW	None	Intel HD	None	None	Stand	ES52	None	Win7 Pro64 10/23/12
2756-N8U	4x3	i7-3770	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	None	Win7 Pro64 10/23/12
2756-N9U	4x3	i5-3470	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win7 Pro64 10/23/12

•3-year limited warranty

Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Pentium G870 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core™ i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache)</b> , integrated Intel HD Graphics 2000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache)</b> , Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache)</b> , Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache)</b> , Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										<b>Preloaded operating system</b> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <b>Ready to install applications</b> (only some listed) • Rescue and Recovery™ • Password Manager <b>Preloaded applications</b> (only some listed) • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • ThinkVantage Power Manager • View Management Utility • Lenovo® AppShop • Lenovo Solution Center • Lenovo Message Center Plus • Lenovo SimpleTap • Norton™ Internet Security (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Windows Live™ Essentials • Microsoft® Office preloaded; purchase a product key to activate • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)			
Implementation	Processor in LGA1155 socket													
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets													
Graphics	<b>Intel HD Graphics / 2000 / 2500 / 4000</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz</i> None													
DP dongle	None													
Disk	SATA 6.0Gb/s 7200 rpm													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset													
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector													
eSATA port	None													
Media reader	None													
Chipset	<b>Intel Q75 Express Chipset</b>													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)													
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®													
Manageability	Intel Standard Manageability													
Modem	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)										<b>Security</b> • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Cable lock • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement • <i>Chassis intrusion switch on selected model(s)</i>			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Floor Stand	System floor stand for vertical orientation													
Power supply	240 watts, autosensing, 85% PSU													
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.3" W X 15.2" D X 3.9" H</li> <li>• 338mm W X 385mm D X 100mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless adapter retention</li> </ul>													
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader													
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3										EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet			

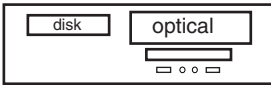


# ThinkCentre M82 Small (2929) - ES 5.2 (GMP) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global (G) GMP (P)	Win7 preload	Ann date (mm/dd/yy)
2929-A1U	4x3	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	G P	Pro 64	06/05/12
2929-B1U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	G P	Pro 64	06/19/12
2929-D1U	4x3	i5-3570	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	G P	Pro 64	08/14/12

●Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> Processor in LGA1155 socket										
Implementation	Processor in LGA1155 socket										
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>										
DP dongle	None										
Disk	SATA 6.0Gb/s 7200 rpm										
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset										
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector										
eSATA port	None										
Media reader	None										
Chipset	<b>Intel Q75 Express Chipset</b>										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)										
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec										
Speaker	Internal speaker for business audio										
IEEE 1394	None										
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®										
Manageability	Intel Standard Manageability										
Modem	None										
Security chip	Trusted Platform Module (TPM 1.2-compliant)										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Floor Stand	System floor stand for vertical orientation										
Power supply	240 watts, autosensing, 85% PSU										
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 13.3" W X 15.2" D X 3.9" H</li> <li>● 338mm W X 385mm D X 100mm H</li> <li>● 16.5 lb (7.5 kg) in maximum configuration</li> <li>● Toolless cover flips up and tilts backward on rear hinges</li> <li>● Toolless disk and optical drive removal</li> <li>● Toolless adapter retention</li> </ul>										
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader										
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3										
											
	<b>Preloaded operating system</b> Genuine Windows® 7 Professional 64 <b>Ready to install applications (only some listed)</b> <ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul> <b>Preloaded applications (only some listed)</b> <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo AppShop</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>										
	EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies										
	For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet										
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										

See footnotes for important warranty information  
 US models announced June 5, June 19, or August 14, 2012

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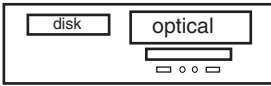


# ThinkCentre M82 Small (2929) - ES 5.2 (GMP) - Win 8 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
2929-C1U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	G P	Win8 Pro64	10/23/12
2929-E1U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	G P	Win7 Pro64	10/23/12

•Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b> <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 8 Pro 64-bit		
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>													
Implementation	Processor in LGA1155 socket											<b>Preloaded applications (only some listed)</b> <b>- Windows 7 models</b> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• Lenovo® AppShop</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Windows Live™ Essentials</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul> <b>- Windows 8 models</b> <ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul> <b>- All models</b> <ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>		
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets													
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz</i>													
DP dongle	None													
Disk	SATA 6.0Gb/s 7200 rpm													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset													
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector													
eSATA port	None													
Media reader	None													
Chipset	<b>Intel Q75 Express Chipset</b>													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)													
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®													
Manageability	Intel Standard Manageability													
Modem	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Floor Stand	System floor stand for vertical orientation													
Power supply	240 watts, autosensing, 85% PSU													
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.3" W X 15.2" D X 3.9" H</li> <li>• 338mm W X 385mm D X 100mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless adapter retention</li> </ul>													
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader													
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3													
														
	<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>													
	EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant													
	Supports ThinkVantage Technologies													
	For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet													
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													

See footnotes for important warranty information  
US models announced October 23, 2012

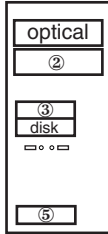
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(MDTN1-19) October 2012

# ThinkCentre M82 Tower (3392) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
3392-B6U	4x5	i3-2130	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	Pro 64	06/19/12
3392-C1U	4x5	i3-2120	4GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	Pro 64	06/19/12
3392-C3U	4x5	i3-2120	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	Pro 64	06/19/12
3392-C7U	4x5	G630	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	Pro 64	06/19/12
3392-C8U	4x5	G850	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	Pro 64	06/19/12
3392-F3U	4x5	G630	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	Pro 64	07/10/12

●3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										<b>Preloaded operating system</b>		
Processor	<b>Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Pentium G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache)</b> , integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										Genuine Windows® 7 Professional 64  <b>Ready to install applications</b> (only some listed) ● Rescue and Recovery™ ● Password Manager  <b>Preloaded applications</b> (only some listed) ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Power Manager ● View Management Utility ● Lenovo AppShop ● Lenovo Solution Center ● Lenovo Message Center Plus ● Lenovo SimpleTap ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ for Windows ● Windows Live™ Essentials ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now™ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW)		
Implementation													
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets												
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 2000</b> in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>												
DP dongle	None												
Disk	SATA 6.0Gb/s 7200 rpm												
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive												
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset												
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector												
eSATA port	None												
Media reader	None												
Chipset	<b>Intel Q75 Express Chipset</b>												
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort												
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)												
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector												
Audio	High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker	Internal speaker for business audio												
IEEE 1394	None												
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®												
Manageability	Intel Standard Manageability												
Modem	None												
Security chip	Trusted Platform Module (TPM 1.2-compliant)												
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Power supply	280 watts with variable speed fan, manual switch												
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 6.9" W X 17.4" D X 16.3" H</li> <li>● 175mm W X 442mm D X 414mm H</li> <li>● 24.2 lb (11.0 kg) in maximum configuration</li> <li>● Toolless cover removal, toolless adapter retention</li> <li>● Toolless disk, optical drive removal</li> </ul>												
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk												
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3												
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										<b>Security</b> ● Security chip (see information on left) ● One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) ● Cable lock ● Power-on password ● Hard disk password ● Boot sequence control ● Boot without keyboard and mouse ● Serial port I/O control ● Individual USB port disablement ● Chassis intrusion switch on selected model(s)  GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies  For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet		

See footnotes for important warranty information  
US models announced June 19 or July 10, 2012

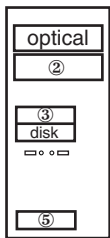
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(MDTN1-10) July 2012

# ThinkCentre M82 Tower (3392) - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
3392-D2U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	Pro 32	06/19/12
3392-C2U	4x5	i5-3550	4GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	Pro 64	06/19/12
3392-C4U	4x5	i7-3770	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	None	Pro 64	06/19/12
3392-C5U	4x5	i5-3550	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	Pro 64	06/19/12
3392-D7U	4x5	i5-3570	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	Pro 32	06/19/12
3392-D8U	4x5	i7-3770	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	None	Pro 32	06/19/12
3392-D9U	4x5	i5-3470	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	Pro 64	06/19/12

●3-year limited warranty

Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> Processor in LGA1155 socket	<b>Preloaded operating system</b> <i>Some:</i> Genuine Windows® 7 Professional 32 <i>Some:</i> Genuine Windows 7 Professional 64 <b>Ready to install applications</b> (only some listed) ● Rescue and Recovery™ ● Password Manager <b>Preloaded applications</b> (only some listed) ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Power Manager ● View Management Utility ● Lenovo AppShop ● Lenovo Solution Center ● Lenovo Message Center Plus ● Lenovo Simple Tap ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ for Windows ● Windows Live™ Essentials ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now™ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW)
Implementation		
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets	
Graphics	<b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>	
DP dongle	None	
Disk	SATA 6.0Gb/s 7200 rpm	
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset	
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector	
eSATA port	None	
Media reader	None	
Chipset	<b>Intel Q75 Express Chipset</b>	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
IEEE 1394	None	
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®	
Manageability	Intel Standard Manageability	
Modem	None	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	280 watts with variable speed fan, manual switch	
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 6.9" W X 17.4" D X 16.3" H</li> <li>● 175mm W X 442mm D X 414mm H</li> <li>● 24.2 lb (11.0 kg) in maximum configuration</li> <li>● Toolless cover removal, toolless adapter retention</li> <li>● Toolless disk, optical drive removal</li> </ul>	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk	
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Serial port I/O control</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul> <b>GREENGUARD® certified</b> RoHS-compliant <b>Supports ThinkVantage Technologies</b> For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US models announced June 19, 2012

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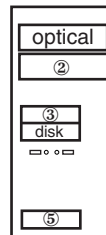


# ThinkCentre M82 Tower (3392) - Windows 8 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB	2nd Disk rpm	Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
3392-G3U	4x5	i5-3470	4GBx1 1600MHz	500G	7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win8 Pro64	10/23/12
3392-K8U	4x5	i7-3770	4GBx1 1600MHz	500G	7200	Bay	DVD±RW	None	HD 4000	None	None	None	None	Win7 Pro64	10/23/12
3392-K9U	4x5	i5-3570	4GBx1 1600MHz	500G	7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win7 Pro64	10/23/12
3392-L1U	4x5	i5-3470	2GBx1 1600MHz	250G	7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win7 Pro64	10/23/12
3392-R1U	4x5	i5-3475S	4GBx1 1600MHz	500G	7200	Bay	DVD±RW	None	HD 4000	None	None	None	None	Win7 Pro64	03/12/13

Positioning	<b>Mainstream enterprise stability and manageability</b>										<b>Preloaded operating system</b>				
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3475S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology										<b>Some:</b> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <b>Some:</b> Windows 8 Pro 64-bit				
Implementation	Processor in LGA1155 socket										<b>Preloaded applications (only some listed) - Windows 7 models</b>				
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• Lenovo® AppShop</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo Simple Tap</li> <li>• Adobe® Reader®</li> <li>• Windows Live™ Essentials</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
Graphics	<b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>										<ul style="list-style-type: none"> <li>• Windows 8 models</li> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul>				
DP dongle	None														
Disk	SATA 6.0Gb/s 7200 rpm														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset														
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel Q75 Express Chipset</b>										<b>- All models</b>				
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										<ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>				
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®														
Manageability	Intel Standard Manageability														
Modem	None														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	280 watts with variable speed fan, manual switch														
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 24.2 lb (11.0 kg) in maximum configuration</li> <li>• Toolless cover removal, toolless adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>										<b>Security</b>				
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk										<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>				
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3										GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies				
Limited Warranty <b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet				



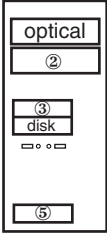
See footnotes for important warranty information  
 US models announced October 23, 2012 or March 12, 2013



# ThinkCentre M82 Tower (3392) - Windows 8 - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
3392-K3U	4x5	i3-2130	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	None	Win7 Pro64	10/23/12
3392-K4U	4x5	G870	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Win7 Pro64	10/23/12
3392-K5U	4x5	G640	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Win7 Pro64	10/23/12
3392-K6U	4x5	i3-2130	4GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	None	Win7 Pro64	10/23/12
3392-K7U	4x5	i3-2120	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	None	Win7 Pro64	10/23/12
3392-N1U	4x5	G2120	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Win7 Pro64	12/04/12
3392-N2U	4x5	G2020	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Win7 Pro64	01/22/13

Positioning	<i>Mainstream enterprise stability and manageability</i>										<b>Preloaded operating system</b>			
Processor	<b>Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1066MHz) <b>Intel Pentium G2020 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) <b>Intel Pentium G870 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) <b>Intel Pentium G2120 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1600MHz) <b>Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1333MHz) <b>Intel Core i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache)</b> , integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1333MHz)										<b>Windows® 7 Professional 64</b> preinstalled through downgrade rights in Windows 8 Pro 64-bit  <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo® AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Implementation	Processor in LGA1155 socket													
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets <i>System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller</i>													
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 2000</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>													
DP dongle	None													
Disk	SATA 6.0Gb/s 7200 rpm													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset													
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector													
eSATA port	None													
Media reader	None													
Chipset	<b>Intel Q75 Express Chipset</b>													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)													
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®													
Manageability	Intel Standard Manageability													
Modem	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	280 watts with variable speed fan, manual switch													
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 24.2 lb (11.0 kg) in maximum configuration</li> <li>• Toolless cover removal, toolless adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>													
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk													
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3													
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul> GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies  For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information

US models announced October 23, 2012, December 4, 2012, or January 22, 2013

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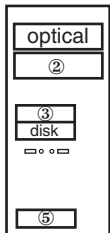
(MDTN1-25) February 2013

# ThinkCentre M82 Tower (2697) - ENERGY STAR 5.2 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
2697-E5U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	None	Pro 32 06/05/12
2697-M1U	4x5	i7-3770	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	Media	HD 4000	None	Switch	ES52	None	Pro 64 11/06/12

●3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										<p><b>Preloaded operating system</b></p> <p><i>Some:</i> Genuine Windows® 7 Professional 32 <i>Some:</i> Genuine Windows 7 Professional 64</p> <p><b>Ready to install applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul> <p><b>Preloaded applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo AppShop</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Lenovo Simple Tap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>
Processor	<p><b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b></p> <p><b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b></p> <p>Processor in LGA1155 socket</p>										
Implementation	Processor in LGA1155 socket										
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										
Graphics	<b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>										
DP dongle	None										
Disk	SATA 6.0Gb/s 7200 rpm										
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset										
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector										
eSATA port	None										
Media reader	<i>Some:</i> 29-in-1 media reader, internal USB 2.0										
Chipset	<b>Intel Q75 Express Chipset</b>										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)										
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec										
Speaker	Internal speaker for business audio										
IEEE 1394	None										
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®										
Manageability	Intel Standard Manageability										
Modem	None										
Security chip	Trusted Platform Module (TPM 1.2-compliant)										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Power supply	280 watts, autosensing, 85% PSU										
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 6.9" W X 17.4" D X 16.3" H</li> <li>● 175mm W X 442mm D X 414mm H</li> <li>● 24.2 lb (11.0 kg) in maximum configuration</li> <li>● Toolless cover removal, toolless adapter retention</li> <li>● Toolless disk, optical drive removal</li> </ul>										
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk										
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3										
											
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										
	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Serial port I/O control</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul> <p>EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet</p>										

See footnotes for important warranty information  
US models announced June 5 or November 6, 2012

# ThinkCentre M82 Tower (2697) - ES 5.2 (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
2697-H1U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	None	Win8 Pro64	10/23/12
2697-J3U	4x5	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	None	Win8 Pro64	10/23/12
2697-J4U	4x5	i3-3240	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	None	Win8 Pro64	10/23/12
2697-J5U	4x5	i7-3770	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	None	Win8 Pro64	10/23/12
2697-J6U	4x5	i7-3770	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	ES52	None	Win8 Pro64	10/23/12
2697-L2U	4x5	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	None	Win7 Pro64	10/23/12
2697-L3U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	None	Win7 Pro64	10/23/12
2697-L4U	4x5	i5-3570	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	None	Win7 Pro64	10/23/12
2697-L6U	4x5	i3-2130	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2000	None	None	ES52	None	Win7 Pro64	10/23/12

Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b>		
Processor	<p><b>Intel® Core™ i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1333MHz)</p> <p><b>Intel Core i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz)</p> <p><b>Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz)</p> <p><b>Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p>											<p><i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</p> <p><i>Some:</i> Windows 8 Pro 64-bit</p> <p><b>Preloaded applications (only some listed)</b></p> <p><b>- Windows 7 models</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• Lenovo® AppShop</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Windows Live™ Essentials</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul> <p><b>- Windows 8 models</b></p> <ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul> <p><b>- All models</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>		
Implementation	Processor in LGA1155 socket													
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets													
Graphics	<p><i>Some:</i> <b>Intel HD Graphics 2000 / 2500 / 4000</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA)@60Hz</p> <p><i>Some:</i> <b>AMD Radeon™ HD 7450</b>, DirectX 11, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors</p>													
DP dongle	None													
Disk	SATA 6.0Gb/s 7200 rpm													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset													
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector													
eSATA port	None													
Media reader	None													
Chipset	<b>Intel Q75 Express Chipset</b>													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)													
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®													
Manageability	Intel Standard Manageability													
Modem	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)											<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• <i>Chassis intrusion switch on selected model(s)</i></li> </ul>		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	280 watts, autosensing, 85% PSU													
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 24.2 lb (11.0 kg) in maximum configuration</li> <li>• Toolless cover removal, toolless adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>													
Bay	<p>Bay 1: 5.25", 1.6" high, access, std optical</p> <p>Bay 2: 5.25", 1.6" high, access, open</p> <p>Bay 3: 3.5", 1" high, access, opt reader</p> <p>Bay 4: 3.5", 1" high, no access, std disk</p> <p>Bay 5: 3.5", 1" high, no access, opt disk</p>													
Slot	<p>Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max)</p> <p>Slot 2: half-length, full-height, PCIe 2.0 x1</p> <p>Slot 3: half-length, full-height, 32-bit PCI 2.3</p> <p>Slot 4: half-length, full-height, 32-bit PCI 2.3</p>											<p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 5.2-compliant</p> <p>ULE Gold</p> <p>GREENGUARD® certified</p> <p>RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p>		
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											<p>For compatible accessories, please go to O-M82 sheet;</p> <p>For Lenovo service upgrade options, please go to S-TC sheet</p>		

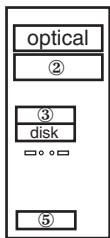


# ThinkCentre M82 Tower (2742) - ES 5.2 (GMP) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global (G) GMP (P)	Win7 preload	Ann date (mm/dd/yy)
2742-A1U	4x5	i5-3550	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	G P	Pro 64	06/05/12
2742-B1U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	G P	Pro 64	06/19/12
2742-D1U	4x5	i5-3570	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	G P	Pro 64	08/14/12

•Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> Processor in LGA1155 socket	<b>Preloaded operating system</b> Genuine Windows® 7 Professional 64 <b>Ready to install applications</b> (only some listed) • Rescue and Recovery™ • Password Manager <b>Preloaded applications</b> (only some listed) • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • ThinkVantage Power Manager • View Management Utility • Lenovo AppShop • Lenovo Solution Center • Lenovo Message Center Plus • Lenovo SimpleTap • Norton™ Internet Security (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Windows Live™ Essentials • Microsoft® Office preloaded; purchase a product key to activate • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)
Implementation		
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets	
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>	
DP dongle	None	
Disk	SATA 6.0Gb/s 7200 rpm	
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset	
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector	
eSATA port	None	
Media reader	None	
Chipset	<b>Intel Q75 Express Chipset</b>	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
IEEE 1394	None	
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®	
Manageability	Intel Standard Manageability	
Modem	None	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	<b>Security</b> • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) • Cable lock • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement • Chassis intrusion switch on selected model(s)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	280 watts, autosensing, 85% PSU	
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 24.2 lb (11.0 kg) in maximum configuration</li> <li>• Toolless cover removal, toolless adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk	
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US models announced June 5, June 19, or August 14, 2012

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(MDTN1-5) August 2012



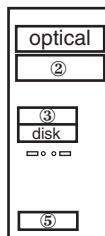
# ThinkCentre M82 Tower (2742) - ES 5.2 (GMP) - Win 8 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
2742-C1U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	G P	Win8 Pro64	10/23/12
2742-E1U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	G P	Win7 Pro64	10/23/12

•Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>										Some: Windows® 7 Professional 64 preinstalled through downgrade rights in WWindows 8 Pro 64-bit			
Implementation	Processor in LGA1155 socket										Some: Windows 8 Pro 64-bit			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<b>Preloaded applications (only some listed) - Windows 7 models</b>			
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz</i>										<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• Lenovo® AppShop</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Windows Live™ Essentials</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
DP dongle	None										<b>- Windows 8 models</b>			
Disk	SATA 6.0Gb/s 7200 rpm										<ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul>			
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										<b>- All models</b>			
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset										<ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>			
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector													
eSATA port	None													
Media reader	None													
Chipset	<b>Intel Q75 Express Chipset</b>													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)													
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®													
Manageability	Intel Standard Manageability													
Modem	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	280 watts, autosensing, 85% PSU													
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 24.2 lb (11.0 kg) in maximum configuration</li> <li>• Toolless cover removal, toolless adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>										<b>Security</b>			
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk										<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3										EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													



See footnotes for important warranty information  
US models announced October 23, 2012

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**Memory**

2GB PC3-12800 DDR3 UDIMM	0A65728	ann	06/05/12
4GB PC3-12800 DDR3 UDIMM	0A65729	ann	06/05/12
8GB PC3-12800 DDR3 UDIMM	0A65730	ann	06/05/12

More information at

[www.lenovo.com/support/desktopmemorycompatibility](http://www.lenovo.com/support/desktopmemorycompatibility)

**Optical**

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max <sup>4</sup>	41N5618	ann	09/26/06
Lenovo® Super Multi-Burner SATA Drive	0A65618	ann	08/23/11

**Storage and removable storage**

500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	ann	11/06/07
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	ann	08/19/08
180GB Solid State Drive	0B47308	ann	01/29/13
USB 2.0 Portable 500GB Hard Disk	45K1690	ann	05/26/09
USB 3.0 Secure 500GB Hard Drive	0A65619	ann	11/29/11
USB 3.0 Secure 750GB Hard Drive	0A65616	ann	11/29/11
USB 3.0 Secure 1TB Hard Drive	0A65621	ann	08/28/12
Slim USB Portable DVD Burner	0A33988	ann	06/14/11

**Graphics**

*Small 2756/2929 support Low Profile:*

NVIDIA NVS 510 2GB Graphics Card by Lenovo <sup>67</sup>	0B47077	ann	01/29/13
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*Tower 2697/2742 support 75 watts max:*

NVIDIA NVS 510 2GB Graphics Card by Lenovo <sup>67</sup>	0B47077	ann	01/29/13
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<sup>67</sup> Simultaneously use the graphic card monitor ports along with the systems integrated monitor ports when Multi-Monitor Support is enabled in BIOS Setup.

More information at [www.lenovo.com/support/graphiccards](http://www.lenovo.com/support/graphiccards)

**Keyboard**

Preferred Pro USB Keyboard	73P5220	ann	06/21/05
Enhanced Performance USB Keyboard	73P2620	ann	03/23/04
UltraSlim Plus Wireless Keyboard and Mouse <sup>52</sup>	0A34032	ann	04/05/11
ThinkPad® USB Keyboard with TrackPoint	55Y9003	ann	08/18/09
Lenovo USB Fingerprint Keyboard	73P4730	ann	02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann	03/24/09

<sup>52</sup> Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at [www.lenovo.com/support/keyboards](http://www.lenovo.com/support/keyboards)

**Mouse**

Lenovo Optical Mouse (USB)	06P4069	ann	05/21/03
Lenovo ScrollPoint® Mouse(USB, Optical)	31P7405	ann	08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann	06/04/02
Lenovo Laser Mouse (USB)	41U3074	ann	01/23/07
Lenovo Wireless Laser Mouse <sup>52</sup>	0A36188	ann	12/20/11
ThinkPad USB Laser Mouse	57Y4635	ann	12/15/09

More information at [www.lenovo.com/support/mice](http://www.lenovo.com/support/mice)

**Modem**

USB 2.0 Lenovo Modem	43R1814	ann	02/26/08
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**Multimedia**

ThinkPad In-Ear Headphones with mic <sup>60</sup>	57Y4488	ann	01/07/10
Lenovo Mini Speakers M220	55Y2033	ann	01/07/10
Lenovo Speakers M0520 (black)	57Y6360	ann	02/08/11
Lenovo Speakers M0520 (red)	57Y6361	ann	02/08/11
Lenovo Headset P550	55Y2065		
Lenovo Headset P950 (black)	57Y6605	ann	02/08/11

<sup>60</sup> Has a 1.2 meter (3.9-foot) cable. Best when systems are in close proximity. Example: SFF placed on a desk.

**Security**

Kensington® MicroSaver® Cable Lock <sup>56</sup>	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock <sup>56</sup>	45K1620	ann	09/30/08
Lenovo Security Cable Lock <sup>56</sup>	57Y4303	ann	08/24/10
USB Gemplus GemPC Smart Card Reader	41N3040	ann	02/21/06

<sup>56</sup> Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

**Monitors**

ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D) <sup>69</sup>	2448MB6	ann	09/13/11
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	ann	10/20/09
ThinkVision LT2323p Wide 23" (VGA, DP, DVI-D) <sup>69</sup>	3024HC1	ann	05/01/12

<sup>69</sup> DisplayPort cable is not included; use optional

DisplayPort to DisplayPort Monitor Cable (0A36537).

More information at [www.lenovo.com/support/monitors](http://www.lenovo.com/support/monitors)

**Monitor Accessories<sup>46</sup>**

Lenovo USB 3.0 to DVI/VGA Monitor Adapter	0B47072	ann	08/14/12
DisplayPort™ to Single-link DVI-D Cable	45J7915	ann	08/05/08
DisplayPort to VGA Monitor Cable	57Y4393	ann	08/04/09
DisplayPort to DisplayPort Monitor Cable	0A36537	ann	09/13/11
Lenovo USB Soundbar	0A36190	ann	05/01/12
Kensington MicroSaver Cable Lock <sup>56</sup>	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock <sup>56</sup>	45K1620	ann	09/30/08
Lenovo Security Cable Lock <sup>56</sup>	57Y4303	ann	08/24/10
ThinkCentre Extend Arm	57Y4352	ann	07/06/10

<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

For more information on accessories:

[www.lenovo.com/accessories](http://www.lenovo.com/accessories)

Purchase Lenovo accessories

[www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)

Product specifications on Lenovo Support

[www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)

Option Compatibility Matrix (OCM) and accessory brochures

[www.lenovoquickpick.com](http://www.lenovoquickpick.com)

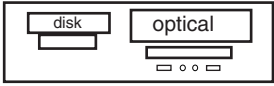
An Options Compatibility Configurator for Lenovo systems

# ThinkCentre M83 SFF Pro (10AN) - 1-year Onsite - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Additional 2nd Front Graphics	serial USB 2.0	Parallel port	PS/2 port	Chassis intrusion switch	Floor stand	ENERGY STAR 5.2	Preload	Ann date (mm/dd/yy)	
10AN0008US	3x4	i7-4770	8GBx1	1TB 7200	DVD±RW	Intel 105	GT 620	USB	Serial	None	None	Stand	None	Win7 Pro64 (DG)	07/30/13	
10AN0009US	3x4	i7-4770	4GBx1	500G 7200	DVD±RW	None	HD 4600	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	07/30/13	
10AN000AUS	3x4	i5-4570	8GBx1	1TB 7200	DVD±RW	Intel 105	HD 4600	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	07/30/13	
10AN000BUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	HD 4600	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	07/30/13	
10AN000CUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	Intel 105	HD 4600	USB	Serial	Parallel	PS/2	None	Stand	None	Win7 Pro64 (DG)	07/30/13

• 1-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> Processor in LGA1150 socket											Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit			
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed)			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>			
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz</i> <i>Some: NVIDIA® Geforce® GT 620, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts;</i> <i>Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz,</i> works along with Intel HD Graphics to support up to five independent monitors											<b>Preloaded applications</b> (only some listed)			
DP dongle	None											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Intel AppUp</li> <li>• Intel Small Business Advantage</li> <li>• Nitro Pro</li> </ul>			
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset														
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel Q85 Express Chipset</b>														
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), optional keyboard (PS/2), optional mouse (PS/2), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
PCIe WLAN	<i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1</i>														
Bluetooth	None														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio (1 watt)														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®														
Manageability	Intel Standard Manageability														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Floor Stand	Optional system floor stand for vertical orientation														
Power supply	240 watts, autosensing														
Machine	<ul style="list-style-type: none"> <li>• SFF Pro (12.9L), business black color; metal case</li> <li>• (WxDxH) 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm</li> <li>• 17.20 lb (7.8 kg) in maximum configuration</li> <li>• Toolless cover removal, adapter retention</li> <li>• Toolless disk and optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt, come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader														
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)														
												<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
												EPEAT™ Gold rating ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
												Supports ThinkVantage Technologies			
												For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet			
Limited Warranty	<b>1-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

See footnotes for important warranty information

US model(s) announced July 30, 2013

US model(s) withdrawn effective November 2013

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(MSK1S-5) November 2013

# ThinkCentre M92/M92p Tiny, Small, Tower



Lenovo ThinkCentre M92/M92p Tiny with Optional Serial Port or DisplayPort



Lenovo ThinkCentre M92/M92p Tiny with Floor Stand



Lenovo ThinkCentre M92/M92p Small



Lenovo ThinkCentre M92/M92p Tiny with VESA Mount



Lenovo ThinkCentre M92/M92p Tower



Lenovo ThinkCentre M92/M92p Tiny with External Optical Box



# ThinkCentre M92 Tiny (3234) - TopSeller - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional Chassis port intr switch	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro Global	Win7 preload (mm/dd/yy)	Ann date (mm/dd/yy)
3234-A6U	i3-2120T	4GBx1	500G 5400	None	HD 2000	None	None	Stand	None	ES52	None	Pro 64	06/05/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										
Processor	<b>Intel® Core™ i3-2120T Processor (2 cores / 4 threads, 2.6GHz, 3MB cache)</b> , integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										
Implementation	Processor in LGA1155 socket										
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)										
Graphics	<b>Intel HD Graphics 2000</b> in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>										
DP dongle	None										
Disk	SATA 3.0Gb/s, 2.5" Wide, 5400 rpm										
External optical	None										
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset										
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar										
eSATA port	None										
Chipset	<b>Intel Q77 Express Chipset</b>										
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)										
PCIe Mini Card	One PCI Express® Mini Card slot										
PCIe WLAN	None										
Bluetooth	None										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec										
Speaker	Internal speaker for business audio										
IEEE 1394	None										
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®										
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)										
Modem	None										
Security chip	Trusted Platform Module (TPM1.2-compliant)										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Floor Stand	System floor stand for vertical orientation										
VESA mount	None										
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU										
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 7.1" W X 7.2" D X 1.4" H</li> <li>• 179mm W X 182mm D X 34.5mm H</li> <li>• 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)</li> </ul>										
	<b>Preloaded operating system</b> Genuine Windows® 7 Professional 64  <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>										
	EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant  Supports ThinkVantage Technologies										
Limited Warranty	<b>1-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available  For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet										

See footnotes for important warranty information  
US model announced June 5, 2012

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(MHTN1-1) November 2013

# ThinkCentre M92p Tiny (2121) - TopSeller (Thin Client)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro Global	Win7 preload (mm/dd/yy)	Ann date (mm/dd/yy)	
2121-B2U	i5-3470T	2GBx1	8G SSD	None	HD 2500	None	None	None	Stand	Mount	ES52	vPro	None	Emb 32	07/10/12
2121-B3U	i5-3470T	2GBx1	8G SSD	None	HD 2500	Intel 2230 + BT	None	None	Stand	Mount	ES52	vPro	None	Emb 32	07/10/12
2121-F3U	i5-3470T	2GBx1	8G SSD	None	HD 2500	Intel 105	DP	None	Stand	None	ES52	vPro	None	Emb 32	03/05/13

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>										Genuine Windows® 7 Embedded 32			
Implementation	Processor in LGA1155 socket										<b>Preloaded applications</b> (only some listed)			
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)										<ul style="list-style-type: none"> <li>● Adobe® Reader®</li> <li>● Adobe Flash® Player</li> <li>● Citrix® Receiver</li> <li>● IIS Web Server</li> <li>● Microsoft® Management Console</li> <li>● Microsoft Silverlight</li> <li>● Remote Desktop Protocol</li> <li>● ThinPrint .print Client</li> <li>● TightVNC Viewer</li> <li>● VMware® View Client</li> <li>● vWorkspace</li> <li>● Windows Media Player</li> </ul>			
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>													
DP dongle	None													
Disk	Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide													
External optical	None													
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset													
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar													
eSATA port	None													
Chipset	<b>Intel Q77 Express Chipset</b>													
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)													
PCIe Mini Card	One PCI Express® Mini Card slot													
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2													
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®													
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)													
Modem	None													
Security chip	Trusted Platform Module (TPM1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Floor Stand	System floor stand for vertical orientation													
VESA mount	<i>Some:</i> Supports VESA 75mm and 100mm mount standard													
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU													
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 7.1" W X 7.2" D X 1.4" H</li> <li>● 179mm W X 182mm D X 34.5mm H</li> <li>● 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)</li> </ul>										<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>			
											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant			
											Supports ThinkVantage Technologies			
											For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													

See footnotes for important warranty information  
US models announced July 10, 2012 or March 5, 2013

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(MHTN1-20) March 2013

# ThinkCentre M92p Tiny (2121) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>6</sup>	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload	Ann date (mm/dd/yy)
2121-A1U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	DP	None	None	Mount	ES52	vPro	None	Pro 64	07/10/12
2121-A2U	i5-3470T	4GBx1	500G 7200	None	HD 2500	None	DP	None	Stand	Mount	ES52	vPro	None	Pro 64	07/10/12
2121-A3U	i5-3470T	4GBx1	320G 7200	None	HD 2500	None	DP	None	Stand	Mount	ES52	vPro	None	Pro 64	07/10/12
2121-A4U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	Serial	None	None	Mount	ES52	vPro	None	Pro 64	07/10/12
2121-A5U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 2230 + BT	None	None	None	Mount	ES52	vPro	None	Pro 64	07/10/12
2121-A6U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	None	None	Mount	ES52	vPro	None	Pro 64	07/10/12
2121-A7U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	None	Stand	Mount	ES52	vPro	None	Pro 64	07/10/12
2121-B1U	i5-3470T	4GBx1	500G 7200	None	HD 2500	None	DP	None	Stand	Mount	ES52	vPro	None	Pro 64	07/10/12
2121-C8U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 2230 + BT	DP	None	None	Mount	ES52	vPro	None	Pro 64	08/14/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>	<b>Preloaded operating system</b> Genuine Windows® 7 Professional 64  <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>
Processor	<b>Intel® Core™ i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>	
Implementation	Processor in LGA1155 socket	
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>	
DP dongle	None	
Disk	SATA 3.0Gb/s, 2.5" Wide, 7200 rpm	
External optical	<i>Some:</i> Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in	
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset	
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar	
eSATA port	None	
Chipset	<b>Intel Q77 Express Chipset</b>	
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
IEEE 1394	None	
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®	
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)	
Modem	None	
Security chip	Trusted Platform Module (TPM1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Floor Stand	<i>Some:</i> System floor stand for vertical orientation	
VESA mount	Supports VESA 75mm and 100mm mount standard	
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU	
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 7.1" W X 7.2" D X 1.4" H</li> <li>• 179mm W X 182mm D X 34.5mm H</li> <li>• 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)</li> </ul>	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	
	<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>	
	EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant	
	Supports ThinkVantage Technologies	
	For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet	

See footnotes for important warranty information  
US models announced July 10 or August 14, 2012

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(MHTN1-19) August 2012

# ThinkCentre M92p Tiny (2121) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Intrusion switch	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro	Global	Preload	Ann date (mm/dd/yy)
2121-A9U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	None	Stand	None	ES52	vPro	None	Win8 Pro64	10/23/12
2121-C4U	i5-3470T	4GBx1	500G 7200	None	HD 2500	None	None	None	Stand	None	ES52	vPro	None	Win8 Pro64	10/23/12
2121-C5U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 2230 + BT	None	None	None	Mount	ES52	vPro	None	Win8 Pro64	10/23/12
2121-C6U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	None	None	None	Mount	ES52	vPro	None	Win8 Pro64	10/23/12
2121-C9U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 105	DP	None	None	Mount	ES52	vPro	None	Win8 Pro64	10/23/12
2121-D3U	i5-3470T	4GBx1	500G 7200	None	HD 2500	None	DP	None	Stand	None	ES52	vPro	None	Win7 Pro64	10/23/12
2121-D4U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	DP	None	None	Mount	ES52	vPro	None	Win7 Pro64	10/23/12
2121-D5U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 105	DP	None	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
2121-D6U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 105	DP	None	None	Mount	ES52	vPro	None	Win7 Pro64	10/23/12
2121-D7U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	DP	None	Stand	None	ES52	vPro	None	Win7 Pro64	10/23/12
2121-D8U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 2230 + BT	DP	None	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
2121-E1U	i5-3470T	4GBx1	180G SSD	None	HD 2500	Intel 105	DP	None	Stand	None	ES52	vPro	None	Win7 Pro64	11/20/12
2121-E2U	i5-3470T	4GBx1	180G SSD	DVD±RW	HD 2500	Intel 105	DP	None	None	Mount	ES52	vPro	None	Win7 Pro64	11/20/12
2121-E3U	i5-3470T	4GBx1	500G 5400	None	HD 2500	Intel 105	None	None	Stand	None	ES52	vPro	None	Win7 Pro64	11/20/12
2121-E4U	i5-3470T	4GBx1	500G 5400	None	HD 2500	Intel 105	DP	None	Stand	None	ES52	vPro	None	Win7 Pro64	11/20/12
2121-E5U	i5-3470T	4GBx1	500G 5400	DVD±RW	HD 2500	Intel 105	DP	None	None	Mount	ES52	vPro	None	Win7 Pro64	11/20/12
2121-E9U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	None	Stand	None	ES52	vPro	None	Win7 Pro64	12/11/12
2121-F1U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 2230 + BT	None	None	None	Mount	ES52	vPro	None	Win7 Pro64	12/11/12
2121-F2U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 105	Serial	None	None	Mount	ES52	vPro	None	Win7 Pro64	12/25/12

Positioning Processor	<i>Ultimate security, stability, and manageability for the enterprise</i> <b>Intel® Core™ i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>	<b>Preloaded operating system</b>  <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 8 Pro 64-bit  <b>Preloaded applications (only some listed)</b> <b>- Windows 7 models</b> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• Adobe® Reader®</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul> <b>- Windows 8 models</b> <ul style="list-style-type: none"> <li>• Lenovo® Support</li> <li>• Lenovo Companion</li> <li>• Norton™ Studio</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul> <b>- All models</b> <ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>
Implementation	Processor in LGA1155 socket	
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>	
DP dongle	None	
Disk	<i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide <i>Some:</i> Hard Disk Drive / SATA 3.0Gb/s, 2.5" Wide	
External optical	<i>Some:</i> Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in	
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset	
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar	
eSATA port	None	
Chipset	<b>Intel Q77 Express Chipset</b>	
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
IEEE 1394	None	
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®	
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)	
Modem	None	
Security chip	Trusted Platform Module (TPM1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Floor Stand	<i>Some:</i> System floor stand for vertical orientation	
VESA mount	<i>Some:</i> Supports VESA 75mm and 100mm mount standard	
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU	
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 7.1" W X 7.2" D X 1.4" H</li> <li>• 179mm W X 182mm D X 34.5mm H</li> <li>• 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)</li> </ul>	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	
	<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>	
	<b>EPEAT™ Gold rating</b> <b>ENERGY STAR® 5.2-compliant</b> <b>ULE Gold</b> Cisco EnergyWise compatible <b>GREENGUARD® certified</b> RoHS-compliant	
	Supports ThinkVantage Technologies	
	For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet	

See footnotes for important warranty information

US models announced October 23, November 20, December 11, or December 25, 2012

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(MHTN1-24) February 2013



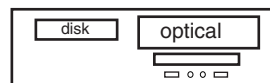
# ThinkCentre M92p Small (2988) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Intel vPro Global	Win7 preload (mm/dd/yy)	Ann date (mm/dd/yy)
2988-A1U	4x3	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	Pro 64	06/05/12
2988-A3U	4x3	i7-3770	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	vPro	Pro 64	06/05/12
2988-A6U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	Pro 64	06/05/12
2988-A9U	4x3	i7-3770	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	vPro	Pro 64	07/10/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>	
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											Genuine Windows® 7 Professional 64  <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>	
Implementation	Processor in LGA1155 socket												
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets												
Graphics	<b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>												
DP dongle	None												
Disk	SATA 6.0Gb/s 7200 rpm												
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive												
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support												
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector												
eSATA port	None												
Media reader	None												
Chipset	<b>Intel Q77 Express Chipset</b>												
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort												
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)												
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector												
Audio	High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker	Internal speaker for business audio												
IEEE 1394	None												
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®												
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)												
Modem	None												
Security chip	Trusted Platform Module (TPM1.2-compliant)												
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Floor Stand	System floor stand for vertical orientation												
Power supply	240 watts, autosensing, 85% PSU												
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.3" W X 15.2" D X 3.9" H</li> <li>• 338mm W X 385mm D X 100mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless adapter retention</li> </ul>											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant	
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3											Supports ThinkVantage Technologies	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet	



See footnotes for important warranty information  
 US models announced June 5 or July 10, 2012

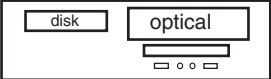
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 (MHTN1-6) July 2012

# ThinkCentre M92p Small (2988) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Intel vPro Global	Win7 preload (mm/dd/yy)	Ann date (mm/dd/yy)
2988-A4U	4x3	i7-3770	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 7350 None	None	Stand	ES52	vPro None	Pro 64	06/05/12
2988-A5U	4x3	i7-3770	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 7450 None	None	Stand	ES52	vPro None	Pro 64	06/05/12
2988-A7U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 7350 None	None	Stand	ES52	vPro None	Pro 64	06/05/12
2988-A8U	4x3	i7-3770	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 7450 None	None	Stand	ES52	vPro None	Pro 64	06/05/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

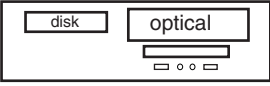
Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										<b>Preloaded operating system</b>		
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>										Genuine Windows® 7 Professional 64		
Implementation	Processor in LGA1155 socket										<b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul>		
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo AppShop</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>		
Graphics	<i>Some:</i> <b>AMD Radeon™ HD 7350</b> , DirectX® 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort™, 30 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors <i>Some:</i> <b>AMD Radeon HD 7450</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors												
DP dongle	None												
Disk	SATA 6.0Gb/s 7200 rpm												
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive												
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support												
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector												
eSATA port	None												
Media reader	None												
Chipset	<b>Intel Q77 Express Chipset</b>												
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort												
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)												
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector												
Audio	High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker	Internal speaker for business audio												
IEEE 1394	None												
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®												
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)												
Modem	None												
Security chip	Trusted Platform Module (TPM1.2-compliant)										<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Floor Stand	System floor stand for vertical orientation												
Power supply	240 watts, autosensing, 85% PSU												
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 13.3" W X 15.2" D X 3.9" H</li> <li>● 338mm W X 385mm D X 100mm H</li> <li>● 16.5 lb (7.5 kg) in maximum configuration</li> <li>● Toolless cover flips up and tilts backward on rear hinges</li> <li>● Toolless disk and optical drive removal</li> <li>● Toolless adapter retention</li> </ul>												
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader										EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant		
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3												
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available												

See footnotes for important warranty information  
US models announced June 5, 2012

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(MHTN1-7) June 2012

# ThinkCentre M92p Small (2988) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	PCIe Mini Card WLAN / BT	Chassis intr	Floor switchstand	ENERGY STAR 5.2	Intel vPro	Global	Preload	Ann date (mm/dd/yy)
2988-B2U	4x3	i7-3770	4GBx1	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	vPro	None	Win8 Pro64	10/23/12
2988-C6U	4x3	i5-3470	4GBx1	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win8 Pro64	10/23/12
2988-B4U	4x3	i5-3570	4GBx1	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win8 Pro64	10/23/12
2988-C8U	4x3	i7-3770	4GBx1	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	ES52	vPro	None	Win8 Pro64	10/23/12
2988-D9U	4x3	i5-3470	4GBx1	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
2988-E1U	4x3	i5-3570	4GBx1	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
2988-E2U	4x3	i7-3770	4GBx1	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
2988-F2U	4x3	i7-3770	4GBx2	1TB 7200	DVD±RW	None	HD 7450	Intel 6205	None	Stand	ES52	vPro	None	Win7 Pro64	03/12/13
2988-F3U	4x3	i5-3475S	4GBx2	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	ES52	vPro	None	Win7 Pro64	03/12/13
Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										<b>Preloaded operating system</b>				
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3475S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit				
Implementation	Processor in LGA1155 socket										<b>Preloaded applications</b> (only some listed)				
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<b>- Windows 7 models</b> • ThinkVantage® Product Recovery • ThinkVantage Communication Utility • ThinkVantage Power Manager • Lenovo® AppShop • Lenovo Message Center Plus • Lenovo SimpleTap • Adobe® Reader® • Windows Live™ Essentials • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)				
Graphics	Some: <b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i> Some: <b>AMD Radeon™ HD 7450</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Maximum resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz;</i> works along with Intel HD Graphics to support up to four independent monitors										<b>- Windows 8 models</b> • Lenovo Support • Lenovo Companion • Lenovo Cloud Storage • Norton™ Studio • AccuWeather • Evernote® • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW)				
DP dongle	None										<b>- All models</b> • ThinkVantage System Update • Lenovo Solution Center • View Management Utility • Norton Internet Security (30 days of virus definitions) • Microsoft® Office preloaded; purchase a product key to activate • Skype™				
Disk	SATA 6.0Gb/s 7200 rpm										<b>Security</b> • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Cable lock • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement • Chassis intrusion switch on selected model(s)				
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support														
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel Q77 Express Chipset</b>														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector														
PCIe WLAN	Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2														
Bluetooth	None														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Floor Stand	System floor stand for vertical orientation														
Power supply	240 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.3" W X 15.2" D X 3.9" H</li> <li>• 338mm W X 385mm D X 100mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless adapter retention</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader														
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3														
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														
See footnotes for important warranty information											©Lenovo				
US models announced October 23, 2012 or March 3, 2013											(MHTN1-27) March 2013				

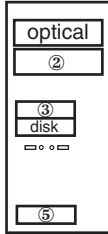


# ThinkCentre M92p Tower (2992) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload (mm/dd/yy)	Ann date (mm/dd/yy)
2992-A2U	4x5	i5-3550	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Pro 64	06/05/12
2992-A3U	4x5	i7-3770	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Pro 64	06/05/12
2992-A4U	4x5	i7-3770	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 7350	None	None	ES52	vPro	None	Pro 64	06/05/12
2992-A5U	4x5	i7-3770	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	ES52	vPro	None	Pro 64	06/05/12
2992-A6U	4x5	i5-3550	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 7350	None	None	ES52	vPro	None	Pro 64	06/05/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> Processor in LGA1155 socket											Genuine Windows® 7 Professional 64			
Implementation	Processor in LGA1155 socket											<b>Ready to install applications</b> (only some listed)			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<b>Preloaded applications</b> (only some listed)			
Graphics	<i>Some: Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display;</i> <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i> <i>Some: AMD Radeon™ HD 7350, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; Maximum resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz; works along with Intel HD Graphics to support up to four independent monitors</i> <i>Some: AMD Radeon HD 7450, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; Maximum resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz; works along with Intel HD Graphics to support up to four independent monitors</i>											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
DP dongle	None														
Disk	SATA 6.0Gb/s 7200 rpm														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support														
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel Q77 Express Chipset</b>														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Modem	None														
Security chip	Trusted Platform Module (TPM 1.2-compliant)											<b>Security</b>			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	280 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 24.2 lb (11.0 kg) in maximum configuration</li> <li>• Toolless cover removal, toolless adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3											Supports ThinkVantage Technologies			
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet			

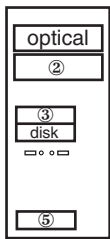


# ThinkCentre M92p Tower (2992) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload (mm/dd/yy)	Ann date (mm/dd/yy)
2992-A7U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Pro 64	06/05/12
2992-A8U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 7350	None	None	ES52	vPro	None	Pro 64	06/05/12
2992-A9U	4x5	i7-3770	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 7350	None	None	ES52	vPro	None	Pro 64	06/05/12
2992-B1U	4x5	i7-3770	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	ES52	vPro	None	Pro 64	06/05/12
2992-B2U	4x5	i7-3770	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Pro 64	07/10/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										<b>Preloaded operating system</b>				
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> Processor in LGA1155 socket										Genuine Windows® 7 Professional 64				
Implementation	Processor in LGA1155 socket										<b>Ready to install applications</b> (only some listed)				
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>				
Graphics	<i>Some: Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display;</i> <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz;</i> <i>Some: AMD Radeon™ HD 7350, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; Maximum resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz; works along with Intel HD Graphics to support up to four independent monitors</i> <i>Some: AMD Radeon HD 7450, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; Maximum resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz; works along with Intel HD Graphics to support up to four independent monitors</i>										<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
DP dongle	None														
Disk	SATA 6.0Gb/s 7200 rpm														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support														
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel Q77 Express Chipset</b>														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)										<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	280 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 24.2 lb (11.0 kg) in maximum configuration</li> <li>• Toolless cover removal, toolless adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk														
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3										EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies				
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet				

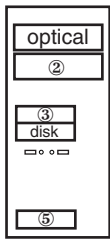
See footnotes for important warranty information  
 US models announced June 5 or July 10, 2012

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 (MHTN1-13) July 2012

# ThinkCentre M92p Tower (2992) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro	Global	Preload	Ann date (mm/dd/yy)
2992-B5U	4x5	i7-3770	4GBx1	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Win8 Pro64	10/23/12
2992-C9U	4x5	i5-3470	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win8 Pro64	10/23/12
2992-D1U	4x5	i5-3570	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win8 Pro64	10/23/12
2992-D2U	4x5	i7-3770	4GBx1	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	ES52	vPro	None	Win8 Pro64	10/23/12
2992-E3U	4x5	i5-3470	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
2992-E4U	4x5	i5-3570	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
2992-E5U	4x5	i7-3770	4GBx1	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
2992-F7U	4x5	i5-3475S	4GBx1	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Win7 Pro64	03/12/13
2992-F8U	4x5	i5-3475S	4GBx2	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	ES52	vPro	None	Win7 Pro64	03/12/13

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3475S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit			
Implementation	Processor in LGA1155 socket											<b>Preloaded applications</b> (only some listed)			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<b>- Windows 7 models</b> <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>Lenovo® Message Center Plus</li> <li>Lenovo SimpleTap</li> <li>Adobe® Reader®</li> <li>Windows Live™ Essentials</li> <li>Corel® Burn.Now™ (DVD±RW)</li> <li>Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Graphics	Some: <b>Intel HD Graphics 2500 / 4000</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i> Some: <b>AMD Radeon™ HD 7450</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Maximum resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz;</i> works along with Intel HD Graphics to support up to four independent monitors											<b>- Windows 8 models</b> <ul style="list-style-type: none"> <li>Lenovo Support</li> <li>Lenovo Companion</li> <li>Lenovo Cloud Storage</li> <li>Norton™ Studio</li> <li>AccuWeather</li> <li>Evernote®</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> </ul>			
DP dongle	None											<b>- All models</b>			
Disk	SATA 6.0Gb/s 7200 rpm											<ul style="list-style-type: none"> <li>ThinkVantage System Update</li> <li>Lenovo Solution Center</li> <li>View Management Utility</li> <li>Norton Internet Security (30 days of virus definitions)</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Skype™</li> </ul>			
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											<b>Security</b>			
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support											<ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Cable lock</li> <li>Power-on password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>			
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
eSATA port	None											Supports ThinkVantage Technologies			
Media reader	None											For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet			
Chipset	<b>Intel Q77 Express Chipset</b>														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	280 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>6.9" W X 17.4" D X 16.3" H</li> <li>175mm W X 442mm D X 414mm H</li> <li>24.2 lb (11.0 kg) in maximum configuration</li> <li>Toolless cover removal, toolless adapter retention</li> <li>Toolless disk, optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk														
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3														
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

# ThinkCentre M92 Tiny (3229) - GMP (Thin Client)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB	External rpm	optical Graphics	PCle Mini Card WLAN / BT	Optional port	Chassis intr switch	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro	Global (G) GMP (P)	Win7 preload	Ann date (mm/dd/yy)
3229-A1U	G460	2GBx1	8G SSD	None	Intel HD	None	Serial	None	None	None	ES52	None	G P	Emb 32	07/10/12
3229-A2U	G465	2GBx1	8G SSD	None	Intel HD	None	Serial	None	None	None	ES52	None	G P	Emb 32	01/08/13
3229-A3U	G470	2GBx1	8G SSD	None	Intel HD	None	Serial	None	None	None	ES52	None	G P	Emb 32	07/09/13

●Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>		
Processor	<b>Intel® Celeron® G460 Processor (1 core / 2 threads, 1.8GHz, 1.5MB cache),</b> integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller <b>Intel Celeron G465 Processor (1 core / 2 threads, 1.9GHz, 1.5MB cache),</b> integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller <b>Intel Celeron G470 Processor (1 core / 2 threads, 2.0GHz, 1.5MB cache),</b> integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Processor in LGA1155 socket											Genuine Windows® 7 Embedded 32  <b>Preloaded applications (only some listed)</b> <ul style="list-style-type: none"> <li>● Adobe® Reader®</li> <li>● Adobe Flash® Player</li> <li>● Citrix® Receiver</li> <li>● IIS Web Server</li> <li>● Microsoft® Management Console</li> <li>● Microsoft Silverlight</li> <li>● Remote Desktop Protocol</li> <li>● ThinPrint .print Client</li> <li>● TightVNC Viewer</li> <li>● VMware® View Client</li> <li>● vWorkspace</li> <li>● Windows Media Player</li> </ul>		
Implementation	Processor in LGA1155 socket													
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook), <i>System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller</i>													
Graphics	<b>Intel HD Graphics</b> in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>													
DP dongle	None													
Disk	Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide													
External optical	None													
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset													
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar													
eSATA port	None													
Chipset	<b>Intel Q77 Express Chipset</b>													
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)													
PCIe Mini Card	One PCI Express® Mini Card slot													
PCIe WLAN	None													
Bluetooth	None													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®													
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)													
Modem	None													
Security chip	Trusted Platform Module (TPM1.2-compliant)													
Keyboard	None													
Mouse	None													
Floor Stand	None													
VESA mount	None													
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU													
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 7.1" W X 7.2" D X 1.4" H</li> <li>● 179mm W X 182mm D X 34.5mm H</li> <li>● 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)</li> </ul>											<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>		
												EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant		
												Supports ThinkVantage Technologies		
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet		

See footnotes for important warranty information  
 US models announced July 10, 2012, January 8, 2013, or July 9, 2013

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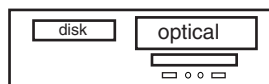
# ThinkCentre M92 Small (3207) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Intel vPro Global	Win7 preload (mm/dd/yy)	Ann date (mm/dd/yy)
3207-A8U	4x3	i3-2120	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	Stand	ES52	None None	Pro 32	06/05/12
3207-A9U	4x3	i3-2120	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2000	None	None	Stand	ES52	None None	Pro 32	06/05/12

•3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>	
Processor	Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology											Genuine Windows® 7 Professional 32	
Implementation	Processor in LGA1155 socket											<b>Ready to install applications</b> (only some listed)	
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>	
Graphics	Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>											<b>Preloaded applications</b> (only some listed)	
DP dongle	None											<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>View Management Utility</li> <li>Lenovo AppShop</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Lenovo SimpleTap</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™ for Windows</li> <li>Windows Live™ Essentials</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Corel® Burn.Now™ (DVD±RW)</li> <li>Corel DVD MovieFactory® (DVD±RW)</li> </ul>	
Disk	SATA 6.0Gb/s 7200 rpm												
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive												
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support												
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector												
eSATA port	None												
Media reader	None												
Chipset	<b>Intel Q77 Express Chipset</b>												
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort												
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)												
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector												
Audio	High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker	Internal speaker for business audio												
IEEE 1394	None												
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®												
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)												
Modem	None												
Security chip	Trusted Platform Module (TPM 1.2-compliant)												
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Floor Stand	System floor stand for vertical orientation												
Power supply	240 watts, autosensing, 85% PSU												
Machine	<ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>13.3" W X 15.2" D X 3.9" H</li> <li>338mm W X 385mm D X 100mm H</li> <li>16.5 lb (7.5 kg) in maximum configuration</li> <li>Toolless cover flips up and tilts backward on rear hinges</li> <li>Toolless disk and optical drive removal</li> <li>Toolless adapter retention</li> </ul>											<b>Security</b>	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader											<ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>Cable lock</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>	
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet	



See footnotes for important warranty information  
US models announced June 5, 2012

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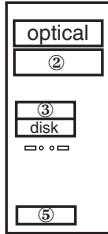


# ThinkCentre M92 Tower (3208)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	PCIe Mini Card WLAN / BT	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro Global	Win7 preload	Ann date (mm/dd/yy)
3208-A8U	4x5	i3-2130	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2000	None	None	ES52	None None	Pro 64	06/05/12
3208-A9U	4x5	i3-2120	2GBx1	250G 7200	Bay	DVD±RW	None	HD 2000	None	None	ES52	None None	Pro 32	06/05/12
3208-C5U	4x5	i3-3240	4GBx2	1TB 7200	Bay	DVD±RW	Media	HD 7450	Intel 2230 + BT	Switch	ES52	None None	Pro 64	11/06/12

●3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache)</b> , integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache)</b> , integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller										<b>Some:</b> Genuine Windows® 7 Professional 32 <b>Some:</b> Genuine Windows 7 Professional 64			
Implementation	Processor in LGA1155 socket										<b>Ready to install applications</b> (only some listed)			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>			
Graphics	<b>Some:</b> Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i> <b>Some:</b> AMD Radeon™ HD 7450, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Maximum resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz;</i> works along with Intel HD Graphics to support up to four independent monitors										<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
DP dongle	None													
Disk	SATA 6.0Gb/s 7200 rpm													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support													
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector													
eSATA port	None													
Media reader	<b>Some:</b> 29-in-1 media reader, internal USB 2.0													
Chipset	<b>Intel Q77 Express Chipset</b>													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)													
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector													
PCIe WLAN	<b>Some:</b> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2													
Bluetooth	<b>Some:</b> Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®													
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)													
Modem	None													
Security chip	Trusted Platform Module (TPM1.2-compliant)										<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	280 watts, autosensing, 85% PSU													
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 24.2 lb (11.0 kg) in maximum configuration</li> <li>• Toolless cover removal, toolless adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>													
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk										EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3										Supports ThinkVantage Technologies			
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information  
 US models announced June 5 or November 6, 2012

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# ThinkCentre M92p Tiny (3238) - Thin Client

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intr	Floor switch	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload	Ann date (mm/dd/yy)
3238-K4U	i5-3470T	2GBx1	8G SSD	None	HD 2500	None	None	None	None	Stand	Mount	ES52	vPro	None	Emb 32	07/10/12
3238-R6U	i5-3470T	2GBx1	8G SSD	None	HD 2500	Intel 105	DP	None	None	Stand	None	ES52	vPro	None	Emb 32	03/05/13
3238-R7U	i5-3470T	2GBx1	8G SSD	None	HD 2500	Intel 2230 + BT	None	None	None	Stand	None	ES52	vPro	None	Emb 32	03/05/13

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>					
Processor	Intel® Core™ i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology											Genuine Windows® 7 Embedded 32					
Implementation	Processor in LGA1155 socket											<b>Preloaded applications</b> (only some listed)					
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>• Adobe® Reader®</li> <li>• Adobe Flash® Player</li> <li>• Citrix® Receiver</li> <li>• IIS Web Server</li> <li>• Microsoft® Management Console</li> <li>• Microsoft Silverlight</li> <li>• Remote Desktop Protocol</li> <li>• ThinPrint .print Client</li> <li>• TightVNC Viewer</li> <li>• VMware® View Client</li> <li>• vWorkspace</li> <li>• Windows Media Player</li> </ul>					
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>																
DP dongle	None																
Disk	Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide																
External optical	None																
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset																
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar																
eSATA port	None																
Chipset	<b>Intel Q77 Express Chipset</b>																
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)																
PCIe Mini Card	One PCI Express® Mini Card slot																
PCIe WLAN	<i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1</i> <i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2</i>																
Bluetooth	<i>Some: Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter</i>																
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																
Speaker	Internal speaker for business audio																
IEEE 1394	None																
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®																
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)																
Modem	None																
Security chip	Trusted Platform Module (TPM1.2-compliant)																
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo																
Floor Stand	System floor stand for vertical orientation																
VESA mount	<i>Some: Supports VESA 75mm and 100mm mount standard</i>																
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU																
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 7.1" W X 7.2" D X 1.4" H</li> <li>• 179mm W X 182mm D X 34.5mm H</li> <li>• 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)</li> </ul>											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>					
												EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant					
												Supports ThinkVantage Technologies					
												For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet					
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available																

See footnotes for important warranty information  
US models announced July 10, 2012 or March 5, 2013

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# ThinkCentre M92p Tiny (3243)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional Chassis port intr switch	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro Global	Win7 preload	Ann date (mm/dd/yy)		
3243-A3U	i5-3470T	4GBx1	500G 5400	None	HD 2500	None	None	None	Stand	None	ES52	vPro	None	Pro 64	06/05/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 1-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										
Processor	<b>Intel® Core™ i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>										
Implementation	Processor in LGA1155 socket										
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)										
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>										
DP dongle	None										
Disk	SATA 3.0Gb/s, 2.5" Wide, 5400 rpm										
External optical	None										
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset										
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar										
eSATA port	None										
Chipset	<b>Intel Q77 Express Chipset</b>										
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)										
PCIe Mini Card	One PCI Express® Mini Card slot										
PCIe WLAN	None										
Bluetooth	None										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec										
Speaker	Internal speaker for business audio										
IEEE 1394	None										
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®										
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)										
Modem	None										
Security chip	Trusted Platform Module (TPM1.2-compliant)										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Floor Stand	System floor stand for vertical orientation										
VESA mount	None										
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU										
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 7.1" W X 7.2" D X 1.4" H</li> <li>• 179mm W X 182mm D X 34.5mm H</li> <li>• 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)</li> </ul>										
	<b>Preloaded operating system</b> Genuine Windows® 7 Professional 64  <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>										
	EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant										
	Supports ThinkVantage Technologies										
	For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet										
Limited Warranty	<b>1-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										

See footnotes for important warranty information  
US model announced June 5, 2012

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(MHTN1-2) June 2012

# ThinkCentre M92p Tiny (3238)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intr switch	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro Global	Win7 preload (mm/dd/yy)	Ann date (mm/dd/yy)
3238-A1U	i5-3470T	4GBx1	500G 5400	DVD±RW	HD 2500	None	None	None	None	Mount	ES52	vPro	Pro 64	06/05/12
3238-B5U	i5-3470T	4GBx1	500G 5400	None	HD 2500	None	None	None	None	None	ES52	vPro	Pro 64	06/05/12
3238-B6U	i5-3470T	4GBx1	320G 5400	None	HD 2500	None	None	None	Stand	None	ES52	vPro	Pro 64	06/05/12
3238-B7U	i5-3470T	4GBx1	500G 5400	None	HD 2500	None	None	None	Stand	None	ES52	vPro	Pro 32	06/05/12
3238-B8U	i5-3470T	2GBx1	320G 5400	None	HD 2500	None	None	None	Stand	Mount	ES52	vPro	Pro 32	06/05/12
3238-D9U	i5-3470T	4GBx1	500G 5400	None	HD 2500	None	USB	None	Stand	Mount	ES52	vPro	Pro 64	06/05/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>		
Processor	Intel® Core™ i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology											Some: Genuine Windows® 7 Professional 32		
Implementation	Processor in LGA1155 socket											Some: Genuine Windows 7 Professional 64		
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<b>Ready to install applications</b> (only some listed)		
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>		
DP dongle	None											<b>Preloaded applications</b> (only some listed)		
Disk	SATA 3.0Gb/s, 2.5" Wide, 5400 rpm											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>		
External optical	Some: Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in													
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset													
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar													
eSATA port	None													
Chipset	<b>Intel Q77 Express Chipset</b>													
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)													
PCIe Mini Card	One PCI Express® Mini Card slot													
PCIe WLAN	None													
Bluetooth	None													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®													
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)													
Modem	None													
Security chip	Trusted Platform Module (TPM1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Floor Stand	Some: System floor stand for vertical orientation													
VESA mount	Some: Supports VESA 75mm and 100mm mount standard													
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU													
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 7.1" W X 7.2" D X 1.4" H</li> <li>• 179mm W X 182mm D X 34.5mm H</li> <li>• 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)</li> </ul>											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>		
												EPEAT™ Gold rating		
												ENERGY STAR® 5.2-compliant		
												ULE Gold		
												Cisco EnergyWise compatible		
												GREENGUARD® certified		
												RoHS-compliant		
												Supports ThinkVantage Technologies		
												For compatible accessories, please go to O-M92 sheet;		
												For Lenovo service upgrade options, please go to S-TC sheet		
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													

See footnotes for important warranty information  
US models announced June 5, 2012

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# ThinkCentre M92p Tiny (3238) - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Security Cable	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload	Ann date (mm/dd/yy)
3238-F5U	i5-3470T	4GBx1	500G 7200	None	Intel 2230 + BT	None	None	None	None	Mount	ES52	vPro	None	Pro 64	06/19/12
3238-F6U	i5-3470T	4GBx1	500G 7200	None	Intel 105	None	None	None	None	Mount	ES52	vPro	None	Pro 64	06/19/12
3238-F7U	i5-3470T	4GBx1	500G 7200	None	Intel 105	None	None	None	Stand	Mount	ES52	vPro	None	Pro 64	06/19/12
3238-F8U	i5-3470T	4GBx1	500G 7200	DVD±RW	Intel 2230 + BT	None	None	None	None	Mount	ES52	vPro	None	Pro 64	06/19/12
3238-F9U	i5-3470T	4GBx1	500G 7200	None	Intel 2230 + BT	None	None	None	Stand	Mount	ES52	vPro	None	Pro 64	06/19/12
3238-K3U	i5-3470T	4GBx1	500G 7200	None	None	DP	None	None	Stand	Mount	ES52	vPro	None	Pro 64	06/19/12
3238-E5U	i5-3470T	4GBx1	500G 7200	None	None	None	None	None	None	Mount	ES52	vPro	None	Pro 64	07/10/12
3238-E8U	i5-3470T	4GBx1	320G 7200	DVD±RW	None	None	None	None	None	Mount	ES52	vPro	None	Pro 64	07/10/12
3238-E9U	i5-3470T	4GBx1	320G 7200	None	None	None	None	None	None	Mount	ES52	vPro	None	Pro 64	07/10/12
3238-F1U	i5-3470T	4GBx1	320G 7200	None	None	None	None	None	Stand	None	ES52	vPro	None	Pro 64	07/10/12
3238-F2U	i5-3470T	2GBx1	320G 7200	None	None	None	None	None	Stand	None	ES52	vPro	None	Pro 64	07/10/12
3238-P6U	i5-3470T	4GBx2	180G SSD	DVD±RW	Intel 2230 + BT	None	Switch	Cable	None	Mount	ES52	vPro	None	Pro 64	11/06/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>	<b>Preloaded operating system</b> Genuine Windows® 7 Professional 64  <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo AppShop</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>
Processor	<b>Intel® Core™ i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>	
Implementation	Processor in LGA1155 socket	
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>	
DP dongle	None	
Disk	<i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide <i>Some:</i> Hard Disk Drive / SATA 3.0Gb/s, 2.5" Wide	
External optical	<i>Some:</i> Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in	
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset	
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar	
eSATA port	None	
Chipset	<b>Intel Q77 Express Chipset</b>	
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
IEEE 1394	None	
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®	
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)	
Modem	None	
Security chip	Trusted Platform Module (TPM1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Floor Stand	<i>Some:</i> System floor stand for vertical orientation	
VESA mount	<i>Some:</i> Supports VESA 75mm and 100mm mount standard	
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU	
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 7.1" W X 7.2" D X 1.4" H</li> <li>● 179mm W X 182mm D X 34.5mm H</li> <li>● 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)</li> </ul>	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	
	<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>	
	EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant	
	Supports ThinkVantage Technologies	
	For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet	

See footnotes for important warranty information  
 US models announced June 19, July 10, or November 6, 2012

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 (MHTN1-17) November 2012

# ThinkCentre M92p Tiny (3238) - Windows 8

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date (mm/dd/yy)
3238-K1U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 2230 + BT	None	None	None	Mount	USB	vPro	None	Win8 Pro64	10/23/12
3238-K2U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	None	Stand	None	USB	vPro	None	Win8 Pro64	10/23/12
3238-L1U	i5-3470T	4GBx1	320G 7200	DVD±RW	HD 2500	Intel 105	DP	None	None	Mount	USB	vPro	None	Win8 Pro64	10/23/12
3238-L2U	i5-3470T	4GBx1	320G 7200	None	HD 2500	None	DP	None	None	Mount	USB	vPro	None	Win8 Pro64	10/23/12
3238-L4U	i5-3470T	4GBx1	320G 5400	None	HD 2500	None	None	None	None	Mount	USB	vPro	None	Win7 Pro64	10/23/12
3238-L5U	i5-3470T	4GBx1	320G 5400	DVD±RW	HD 2500	None	None	None	Stand	Mount	USB	vPro	None	Win7 Pro64	10/23/12
3238-L6U	i5-3470T	2GBx1	500G 5400	None	HD 2500	None	None	None	Stand	None	USB	vPro	None	Win7 Pro64	10/23/12
3238-L7U	i5-3470T	4GBx1	500G 7200	None	HD 2500	None	None	None	None	Mount	USB	vPro	None	Win7 Pro64	10/23/12
3238-L3U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	None	Stand	None	USB	vPro	None	Win7 Pro64	10/23/12
3238-M4U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 105	None	None	Stand	None	USB	vPro	None	Win7 Pro64	10/23/12
3238-M5U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 105	None	None	None	None	USB	vPro	None	Win7 Pro64	10/23/12
3238-M6U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 2230 + BT	None	None	Stand	Mount	USB	vPro	None	Win7 Pro64	10/23/12
3238-M7U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	None	None	None	USB	vPro	None	Win7 Pro64	10/23/12
3238-M8U	i5-3470T	4GBx1	500G 7200	None	HD 2500	None	None	None	Stand	None	USB	vPro	None	Win7 Pro64	10/23/12
3238-M9U	i5-3470T	4GBx1	500G 5400	None	HD 2500	None	None	None	Stand	None	USB	vPro	None	Win7 Pro64	10/23/12
3238-Q2U	i5-3470T	4GBx1	180G SSD	None	HD 2500	Intel 105	DP	None	None	Mount	USB	vPro	None	Win7 Pro64	11/20/12
3238-Q3U	i5-3470T	4GBx1	180G SSD	DVD±RW	HD 2500	Intel 105	DP	None	None	Mount	USB	vPro	None	Win7 Pro64	11/20/12
3238-S9U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 105	None	None	None	Mount	2.4G	vPro	None	Win8 Pro64	05/28/13

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>	<b>Preloaded operating system</b> <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 8 Pro 64-bit
Processor	<b>Intel® Core™ i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>	
Implementation	Processor in LGA1155 socket	<b>Preloaded applications (only some listed) - Windows 7 models</b> <ul style="list-style-type: none"><li>• ThinkVantage® Product Recovery</li><li>• ThinkVantage Communication Utility</li><li>• Adobe® Reader®</li><li>• Corel® Burn.Now™ (DVD±RW)</li><li>• Corel DVD MovieFactory® (DVD±RW)</li></ul> <b>- Windows 8 models</b> <ul style="list-style-type: none"><li>• Lenovo® Support</li><li>• Lenovo Companion</li><li>• Lenovo Cloud Storage</li><li>• AccuWeather</li><li>• Evernote®</li><li>• Cyberlink Power2Go (DVD±RW)</li><li>• Cyberlink PowerProducer (DVD±RW)</li></ul> <b>- All models</b> <ul style="list-style-type: none"><li>• ThinkVantage System Update</li><li>• Lenovo Solution Center</li><li>• View Management Utility</li><li>• Norton™ Internet Security (30 days of virus definitions)</li><li>• Microsoft® Office preloaded; purchase a product key to activate</li><li>• Skype™</li></ul>
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>	
DP dongle	None	
Disk	<i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide <i>Some:</i> Hard Disk Drive / SATA 3.0Gb/s, 2.5" Wide	
External optical	<i>Some:</i> Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in	
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset	
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar	
eSATA port	None	
Chipset	<b>Intel Q77 Express Chipset</b>	
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
IEEE 1394	None	
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®	
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)	
Modem	None	
Security chip	Trusted Platform Module (TPM1.2-compliant)	
Keyboard	<i>Some:</i> Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo <i>Some:</i> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black	
Mouse	<i>Some:</i> Enhanced Optical USB Mouse, black, Lenovo logo <i>Some:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black	
Floor Stand	<i>Some:</i> System floor stand for vertical orientation	
VESA mount	<i>Some:</i> Supports VESA 75mm and 100mm mount standard	
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU	
Machine	<ul style="list-style-type: none"><li>• Business black color; metal case</li><li>• 7.1" W X 7.2" D X 1.4" H</li><li>• 179mm W X 182mm D X 34.5mm H</li><li>• 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)</li></ul>	
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<b>Security</b> <ul style="list-style-type: none"><li>• Security chip (see information on left)</li><li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li><li>• Power-on password</li><li>• Administrator password</li><li>• Hard disk password</li><li>• Boot sequence control</li><li>• Boot without keyboard and mouse</li><li>• Individual USB port disablement</li><li>• Chassis intrusion switch on selected model(s)</li></ul> <b>EPEAT™ Gold rating</b> <b>ENERGY STAR® 5.2-compliant</b> <b>ULE Gold</b> Cisco EnergyWise compatible <b>GREENGUARD® certified</b> RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US models announced October 23, 2012, November 20, 2012, or May 28, 2013

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(MHTN1-25) June 2013

# ThinkCentre M92p Tiny (3237) - GMP (Thin Client)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intr switch	Floor stand	VESA mount	ENERGY STAR	Intel vPro	Global (G) GMP (P)	Win7 preload(mm/dd/yy)	Ann date
3237-A3U	i5-3470T	2GBx1	8G SSD	None	HD 2500	None	Serial	None	None	None	ES52	vPro	G P	Emb 32	07/10/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>			
Processor	Intel® Core™ i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											Genuine Windows® 7 Embedded 32			
Implementation												<b>Preloaded applications</b> (only some listed)			
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>• Adobe® Reader®</li> <li>• Adobe Flash® Player</li> <li>• Citrix® Receiver</li> <li>• IIS Web Server</li> <li>• Microsoft® Management Console</li> <li>• Microsoft Silverlight</li> <li>• Remote Desktop Protocol</li> <li>• ThinPrint .print Client</li> <li>• TightVNC Viewer</li> <li>• VMware® View Client</li> <li>• vWorkspace</li> <li>• Windows Media Player</li> </ul>			
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>														
DP dongle	None														
Disk	Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide														
External optical	None														
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset														
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar														
eSATA port	None														
Chipset	<b>Intel Q77 Express Chipset</b>														
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)														
PCIe Mini Card	One PCI Express® Mini Card slot														
PCIe WLAN	None														
Bluetooth	None														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)														
Keyboard	None														
Mouse	None														
Floor Stand	None														
VESA mount	None														
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU														
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 7.1" W X 7.2" D X 1.4" H</li> <li>• 179mm W X 182mm D X 34.5mm H</li> <li>• 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)</li> </ul>											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
												EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant			
												Supports ThinkVantage Technologies			
												For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

See footnotes for important warranty information  
US model announced July 10, 2012

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# ThinkCentre M92p Tiny (3237) - GMP

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intr switch	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro	Global (G) GMP (P)	Win7 preload(mm/dd/yy)	Ann date
3237-A1U	i5-3470T	4GBx1	320G 5400	DVD±RW	HD 2500	None	None	None	None	Mount	ES52	vPro	G P	Pro 64	06/05/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>			
Processor	Intel® Core™ i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology											Genuine Windows® 7 Professional 64			
Implementation	Processor in LGA1155 socket											<b>Ready to install applications</b> (only some listed)			
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>			
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>											<b>Preloaded applications</b> (only some listed)			
DP dongle	None											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Disk	SATA 3.0Gb/s, 2.5" Wide, 5400 rpm														
External optical	Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in														
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset														
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar														
eSATA port	None														
Chipset	<b>Intel Q77 Express Chipset</b>														
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)														
PCIe Mini Card	One PCI Express® Mini Card slot														
PCIe WLAN	None														
Bluetooth	None														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Floor Stand	None														
VESA mount	Supports VESA 75mm and 100mm mount standard														
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU														
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 7.1" W X 7.2" D X 1.4" H</li> <li>• 179mm W X 182mm D X 34.5mm H</li> <li>• 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)</li> </ul>											<b>Security</b>			
												<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
												EPEAT™ Gold rating			
												ENERGY STAR® 5.2-compliant			
												ULE Gold			
												Cisco EnergyWise compatible			
												GREENGUARD® certified			
												RoHS-compliant			
												Supports ThinkVantage Technologies			
												For compatible accessories, please go to O-M92 sheet;			
												For Lenovo service upgrade options, please go to S-TC sheet			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

See footnotes for important warranty information  
US model announced June 5, 2012

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# ThinkCentre M92p Tiny (3237) - GMP (Win 8)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intr switch	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro GMP (P)	Global (G) Preload	Ann date (mm/dd/yy)
3237-A4U	i5-3470T	4GBx1	320G 5400	DVD±RW	HD 2500	None	None	None	None	Mount	ES52	vPro	G P Win8 Pro64	10/23/12
3237-A5U	i5-3470T	4GBx1	320G 5400	DVD±RW	HD 2500	None	None	None	None	Mount	ES52	vPro	G P Win7 Pro64	10/23/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>		
Processor	Intel® Core™ i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit		
Implementation	Processor in LGA1155 socket											Some: Windows 8 Pro 64-bit		
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<b>Preloaded applications</b> (only some listed)		
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>											<b>- Windows 7 models</b>		
DP dongle	None											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• Lenovo® AppShop</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Windows Live™ Essentials</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>		
Disk	SATA 3.0Gb/s, 2.5" Wide, 5400 rpm											<b>- Windows 8 models</b>		
External optical	Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in											<ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul>		
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset											<b>- All models</b>		
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar											<ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>		
eSATA port	None													
Chipset	<b>Intel Q77 Express Chipset</b>													
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)													
PCIe Mini Card	One PCI Express® Mini Card slot													
PCIe WLAN	None													
Bluetooth	None													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®													
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)													
Modem	None													
Security chip	Trusted Platform Module (TPM1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Floor Stand	None													
VESA mount	Supports VESA 75mm and 100mm mount standard													
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU													
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 7.1" W X 7.2" D X 1.4" H</li> <li>• 179mm W X 182mm D X 34.5mm H</li> <li>• 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)</li> </ul>											<b>Security</b>		
												<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>		
												EPEAT™ Gold rating		
												ENERGY STAR® 5.2-compliant		
												ULE Gold		
												Cisco EnergyWise compatible		
												GREENGUARD® certified		
												RoHS-compliant		
												Supports ThinkVantage Technologies		
												For compatible accessories, please go to O-M92 sheet;		
												For Lenovo service upgrade options, please go to S-TC sheet		
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													

See footnotes for important warranty information  
US models announced October 23, 2012

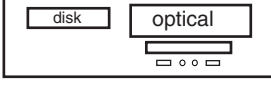
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(MHTN1-26) October 2012

# ThinkCentre M92p Small (3209)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Intel vPro Global	Win7 preload (mm/dd/yy)	Ann date (mm/dd/yy)
3209-A2U	4x3	i5-3550	4GBx1	1600MHz 500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 64 06/05/12
3209-A4U	4x3	i5-3550	4GBx1	1600MHz 500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 64 06/05/12
3209-C5U	4x3	i7-3770	4GBx1	1600MHz 500G 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	vPro	None	Pro 32 06/05/12
3209-C8U	4x3	i5-3550	4GBx1	1600MHz 250G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 64 06/05/12
3209-E4U	4x3	i5-3470	4GBx1	1600MHz 500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 32 06/05/12
3209-E5U	4x3	i5-3550	4GBx1	1600MHz 500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 32 06/05/12
3209-E6U	4x3	i5-3470	2GBx1	1600MHz 250G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 32 06/05/12
3209-E7U	4x3	i5-3470	2GBx1	1600MHz 500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 64 06/05/12
3209-D7U	4x3	i5-3470	4GBx1	1600MHz 500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 64 07/10/12
3209-D9U	4x3	i5-3570	4GBx1	1600MHz 500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 64 07/10/12
3209-F8U	4x3	i5-3570	4GBx1	1600MHz 1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 64 07/10/12
3209-F9U	4x3	i7-3770	4GBx1	1600MHz 1TB 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	vPro	None	Pro 64 07/10/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

Positioning Processor	<p><i>Ultimate security, stability, and manageability for the enterprise</i></p> <p><b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b></p> <p><b>Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b></p> <p><b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b></p> <p><b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b></p> <p>Processor in LGA1155 socket</p>	<p><b>Preloaded operating system</b></p> <p><i>Some:</i> Genuine Windows® 7 Professional 32</p> <p><i>Some:</i> Genuine Windows 7 Professional 64</p> <p><b>Ready to install applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <p><b>Preloaded applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo Simple Tap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>
Implementation	Processor in LGA1155 socket	
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets	
Graphics	<b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>	
DP dongle	None	
Disk	SATA 6.0Gb/s 7200 rpm	
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support	
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector	
eSATA port	None	
Media reader	None	
Chipset	<b>Intel Q77 Express Chipset</b>	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
IEEE 1394	None	
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®	
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)	
Modem	None	
Security chip	Trusted Platform Module (TPM1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Floor Stand	System floor stand for vertical orientation	
Power supply	240 watts, autosensing, 85% PSU	
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.3" W X 15.2" D X 3.9" H</li> <li>• 338mm W X 385mm D X 100mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless adapter retention</li> </ul>	
Bay	<p>Bay 1: 5.25", 1.6" high, access, std optical</p> <p>Bay 2: 3.5", 1" high, no access, std disk</p> <p>Bay 3: 3.5", .5" high, access, opt reader</p>	
Slot	<p>Slot 1: Low Profile, PCI Express 2.0 x16 (45w max)</p> <p>Slot 2: Low Profile, PCIe 2.0 x1</p> <p>Slot 3: Low Profile, 32-bit PCI 2.3</p> <p>Slot 4: Low Profile, 32-bit PCI 2.3</p>	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul> <p>EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet</p>

See footnotes for important warranty information  
US models announced June 5 or July 10, 2012

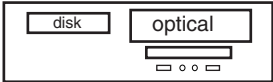
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# ThinkCentre M92p Small (3209) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Intel vPro Global	Win7 preload (mm/dd/yy)	Ann date (mm/dd/yy)	
3209-D4U	4x3	i7-3770	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 7350	None	None	Stand	ES52	vPro	None	Pro 64	06/05/12
3209-D5U	4x3	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 7350	None	None	Stand	ES52	vPro	None	Pro 64	06/05/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>		
Processor	<b>Intel® Core™ i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> Processor in LGA1155 socket											Genuine Windows® 7 Professional 64  <b>Ready to install applications (only some listed)</b> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>		
Implementation	Processor in LGA1155 socket											<b>Preloaded applications (only some listed)</b> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>		
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets													
Graphics	<b>AMD Radeon™ HD 7350</b> , DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA adapter), one DisplayPort™, 30 watts; <i>Maximum resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz</i> ; works along with Intel HD Graphics to support up to four independent monitors											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul> EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant  Supports ThinkVantage Technologies		
DP dongle	None													
Disk	SATA 6.0Gb/s 7200 rpm													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support													
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector													
eSATA port	None													
Media reader	None													
Chipset	<b>Intel Q77 Express Chipset</b>													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)													
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®													
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)													
Modem	None													
Security chip	Trusted Platform Module (TPM1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Floor Stand	System floor stand for vertical orientation													
Power supply	240 watts, autosensing, 85% PSU													
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.3" W X 15.2" D X 3.9" H</li> <li>• 338mm W X 385mm D X 100mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless adapter retention</li> </ul>											For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader													
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3													
														
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													

See footnotes for important warranty information  
 US models announced June 5, 2012

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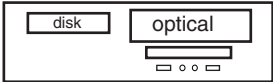


# ThinkCentre M92p Small (3209) - Windows 8

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Intel vPro	Global	Preload	Ann date (mm/dd/yy)
3209-K2U	4x3	i7-3770	4GBx1	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	vPro	None	Win8 Pro64	10/23/12
3209-K9U	4x3	i5-3470	4GBx1	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win8 Pro64	10/23/12
3209-L1U	4x3	i5-3570	4GBx1	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win8 Pro64	10/23/12
3209-L2U	4x3	i7-3770	4GBx1	500G 7200	DVD±RW	None	HD 7450	None	None	Stand	ES52	vPro	None	Win8 Pro64	10/23/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										<b>Preloaded operating system</b>									
Processor	<p><b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b></p> <p><b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b></p> <p><b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b></p> <p>Processor in LGA1155 socket</p>										Windows® 8 Pro 64-bit					<b>Preloaded applications</b> (only some listed)				
Implementation											<ul style="list-style-type: none"> <li>• ThinkVantage® System Update</li> <li>• View Management Utility</li> <li>• Lenovo® Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Lenovo QuickLaunch</li> <li>• Lenovo Solution Center</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Norton Studio</li> <li>• Intel AppUp®</li> <li>• AccuWeather</li> <li>• PC Device Stage</li> <li>• Evernote™</li> <li>• Skype™</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul>									
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets																			
Graphics	<p><i>Some:</i> <b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @60Hz</p> <p><i>Some:</i> <b>AMD Radeon™ HD 7450</b>, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I) @60Hz; works along with Intel HD Graphics to support up to four independent monitors</p>																			
DP dongle	None																			
Disk	SATA 6.0Gb/s 7200 rpm																			
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																			
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support																			
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector																			
eSATA port	None																			
Media reader	None																			
Chipset	<b>Intel Q77 Express Chipset</b>																			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																			
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort																			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																			
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector																			
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																			
Speaker	Internal speaker for business audio																			
IEEE 1394	None																			
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®																			
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)																			
Modem	None																			
Security chip	Trusted Platform Module (TPM1.2-compliant)																			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																			
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo																			
Floor Stand	System floor stand for vertical orientation																			
Power supply	240 watts, autosensing, 85% PSU																			
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.3" W X 15.2" D X 3.9" H</li> <li>• 338mm W X 385mm D X 100mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless adapter retention</li> </ul>																			
Bay	<p>Bay 1: 5.25", 1.6" high, access, std optical</p> <p>Bay 2: 3.5", 1" high, no access, std disk</p> <p>Bay 3: 3.5", .5" high, access, opt reader</p>																			
Slot	<p>Slot 1: Low Profile, PCI Express 2.0 x16 (45w max)</p> <p>Slot 2: Low Profile, PCIe 2.0 x1</p> <p>Slot 3: Low Profile, 32-bit PCI 2.3</p> <p>Slot 4: Low Profile, 32-bit PCI 2.3</p>																			
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										<p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 5.2-compliant</p> <p>ULE Gold</p> <p>Cisco EnergyWise compatible</p> <p>GREENGUARD® certified</p> <p>RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to O-M92 sheet;</p> <p>For Lenovo service upgrade options, please go to S-TC sheet</p>									

See footnotes for important warranty information  
US models announced October 23, 2012

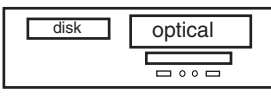
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(MHTN1-28) October 2012



# ThinkCentre M92p Small (3209) - Windows 8 - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Intel vPro	Global	Preload	Ann date (mm/dd/yy)
3209-L3U	4x3	i5-3470	4GBx1	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
3209-L4U	4x3	i5-3570	4GBx1	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
3209-L5U	4x3	i7-3770	4GBx1	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
3209-L7U	4x3	i5-3470	2GBx1	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
3209-L8U	4x3	i5-3570	4GBx1	250G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
3209-M1U	4x3	i7-3770	4GBx1	500G 7200	DVD±RW	None	HD 7450	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
3209-M2U	4x3	i7-3770	4GBx1	500G 7200	DVD±RW	None	HD 7350	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
3209-M3U	4x3	i7-3770	4GBx1	1TB 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
3209-M4U	4x3	i5-3570	4GBx1	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
3209-M5U	4x3	i5-3570	4GBx1	500G 7200	DVD±RW	None	HD 7350	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12

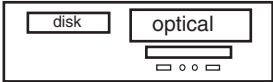
Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										<b>Preloaded operating system</b>				
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit				
Implementation	Processor in LGA1155 socket										<b>Ready to install applications</b> (only some listed)				
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul>				
Graphics	<i>Some:</i> <b>Intel HD Graphics 2500 / 4000</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @60Hz <i>Some:</i> <b>AMD Radeon™ HD 7350</b> , DirectX 11, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I) @60Hz; works along with Intel HD Graphics to support up to four independent monitors <i>Some:</i> <b>AMD Radeon HD 7450</b> , DirectX 11, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I) @60Hz; works along with Intel HD Graphics to support up to four independent monitors										<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo® AppShop</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
DP dongle	None														
Disk	SATA 6.0Gb/s 7200 rpm														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support														
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel Q77 Express Chipset</b>														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)										<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Floor Stand	System floor stand for vertical orientation														
Power supply	240 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 13.3" W X 15.2" D X 3.9" H</li> <li>● 338mm W X 385mm D X 100mm H</li> <li>● 16.5 lb (7.5 kg) in maximum configuration</li> <li>● Toolless cover flips up and tilts backward on rear hinges</li> <li>● Toolless disk and optical drive removal</li> <li>● Toolless adapter retention</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader														
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3										EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies				
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet				

# ThinkCentre M92p Small (3209) - Windows 8 - III

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Intel vPro Global	Preload	Ann date (mm/dd/yy)
3209-R5U	4x3	i5-3475S	4GBx2	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	ES52	vPro	None	Win7 Pro64 03/12/13

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-3475S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>										Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit			
Implementation	Processor in LGA1155 socket										<b>Ready to install applications</b> (only some listed)			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>			
Graphics	<b>AMD Radeon™ HD 7450</b> , DirectX 11, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Maximum resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz</i> ; works along with Intel HD Graphics to support up to four independent monitors										<b>Preloaded applications</b> (only some listed)			
DP dongle	None										<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo® AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Disk	SATA 6.0Gb/s 7200 rpm													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support													
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector													
eSATA port	None													
Media reader	None													
Chipset	<b>Intel Q77 Express Chipset</b>													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)													
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®													
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)													
Modem	None													
Security chip	Trusted Platform Module (TPM1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Floor Stand	System floor stand for vertical orientation													
Power supply	240 watts, autosensing, 85% PSU													
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.3" W X 15.2" D X 3.9" H</li> <li>• 338mm W X 385mm D X 100mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless adapter retention</li> </ul>										<b>Security</b>			
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader										<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3										EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
														
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													

See footnotes for important warranty information  
US model announced March 12, 2013

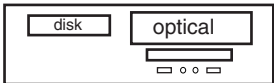
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# ThinkCentre M92p Small (3227) - GMP

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Intel vPro	Global (G) GMP (P)	Win7 preload	Ann date (mm/dd/yy)
3227-A1U	4x3	i7-3770	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	vPro	G P	Pro 64	06/05/12
3227-A2U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	G P	Pro 64	06/19/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> Processor in LGA1155 socket											Genuine Windows® 7 Professional 64  <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>			
Implementation	Processor in LGA1155 socket											<b>Preloaded applications</b> (only some listed)			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Graphics	<b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>														
DP dongle	None														
Disk	SATA 6.0Gb/s 7200 rpm														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support														
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel Q77 Express Chipset</b>														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Floor Stand	System floor stand for vertical orientation														
Power supply	240 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.3" W X 15.2" D X 3.9" H</li> <li>• 338mm W X 385mm D X 100mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless adapter retention</li> </ul>											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader														
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3														
												EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
												Supports ThinkVantage Technologies			
												For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet			
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

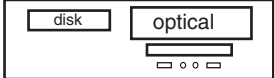


# ThinkCentre M92p Small (3227) - GMP (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr	Floor switch	ENERGY STAR	Intel vPro	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
3227-A3U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	G P	Win8 Pro64	10/23/12
3227-A4U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	G P	Win7 Pro64	10/23/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>											Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit			
Implementation	Processor in LGA1155 socket											Some: Windows 8 Pro 64-bit			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<b>Preloaded applications</b> (only some listed)			
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>											<b>- Windows 7 models</b>			
DP dongle	None											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• Lenovo® AppShop</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Windows Live™ Essentials</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Disk	SATA 6.0Gb/s 7200 rpm											<b>- Windows 8 models</b>			
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											<ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul>			
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support											<b>- All models</b>			
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector											<ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>			
eSATA port	None														
Media reader	None														
Chipset	<b>Intel Q77 Express Chipset</b>														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Floor Stand	System floor stand for vertical orientation														
Power supply	240 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.3" W X 15.2" D X 3.9" H</li> <li>• 338mm W X 385mm D X 100mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless adapter retention</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader														
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3														
															
												<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
												EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
												<b>Supports ThinkVantage Technologies</b>			
												For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet			
Limited Warranty	<b>3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available</b>														



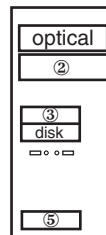
# ThinkCentre M92p Tower (3212)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro Global	Win7 preload (mm/dd/yy)	Ann date (mm/dd/yy)
3212-A3U	4x5	i5-3550	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	Pro 64	06/05/12
3212-A9U	4x5	i5-3550	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	Pro 32	06/05/12
3212-C1U	4x5	i5-3550	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	Pro 64	06/05/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>		
Processor	Intel® Core™ i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											Some: Genuine Windows® 7 Professional 32 Some: Genuine Windows 7 Professional 64		
Implementation	Processor in LGA1155 socket											<b>Ready to install applications</b> (only some listed)		
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul>		
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>											<ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo AppShop</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Lenovo Simple Tap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>		
DP dongle	None													
Disk	SATA 6.0Gb/s 7200 rpm													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support													
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector													
eSATA port	None													
Media reader	None													
Chipset	<b>Intel Q77 Express Chipset</b>													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)													
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®													
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)													
Modem	None													
Security chip	Trusted Platform Module (TPM1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	280 watts, autosensing, 85% PSU													
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 6.9" W X 17.4" D X 16.3" H</li> <li>● 175mm W X 442mm D X 414mm H</li> <li>● 24.2 lb (11.0 kg) in maximum configuration</li> <li>● Toolless cover removal, toolless adapter retention</li> <li>● Toolless disk, optical drive removal</li> </ul>											<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Serial port I/O control</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected mode(s)</li> </ul>		
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant		
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3											<b>Supports ThinkVantage Technologies</b> For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													



See footnotes for important warranty information  
US models announced June 5, 2012

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(MHTN1-14) June 2012

# ThinkCentre M92p Tower (3212) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload (mm/dd/yy)	Ann date (mm/dd/yy)
3212-C6U	4x5	i7-3770	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Pro 64	06/05/12
3212-C7U	4x5	i5-3550	4GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Pro 64	06/05/12
3212-C9U	4x5	i7-3770	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 7350	None	None	ES52	vPro	None	Pro 64	06/05/12
3212-D1U	4x5	i7-3770	4GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Pro 64	06/05/12
3212-E4U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Pro 32	06/05/12
3212-E5U	4x5	i7-3770	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Pro 32	06/05/12
3212-E6U	4x5	i5-3470	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Pro 32	06/05/12
3212-E7U	4x5	i5-3470	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Pro 64	06/05/12
3212-K1U	4x5	i7-3770	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Pro 64	06/19/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										<b>Preloaded operating system</b>				
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										Some: Genuine Windows® 7 Professional 32 Some: Genuine Windows 7 Professional 64				
Implementation	Processor in LGA1155 socket										<b>Ready to install applications</b> (only some listed)				
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<b>Preloaded applications</b> (only some listed)				
Graphics	Some: <b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i> Some: <b>AMD Radeon™ HD 7350</b> , DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; <i>Maximum resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz;</i> works along with Intel HD Graphics to support up to four independent monitors										<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
DP dongle	None										<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul> EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet				
Disk	SATA 6.0Gb/s 7200 rpm														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support														
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel Q77 Express Chipset</b>														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	280 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 24.2 lb (11.0 kg) in maximum configuration</li> <li>• Toolless cover removal, toolless adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk														
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3														
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

See footnotes for important warranty information  
 US models announced June 5 or June 19, 2012

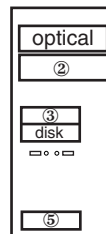
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 (MHTN1-15) June 2012

# ThinkCentre M92p Tower (3212) - III

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	PCIe Mini Card WLAN / BT	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload (mm/dd/yy)	Ann date (mm/dd/yy)
3212-D8U	4x5	i5-3470	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Pro 64	07/10/12
3212-D9U	4x5	i7-3770	4GBx1	1TB 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Pro 64	07/10/12
3212-E2U	4x5	i5-3570	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Pro 64	07/10/12
3212-F7U	4x5	i5-3470	4GBx1	500G 7200	Bay	DVD±RW	None	HD 7350	None	None	ES52	vPro	None	Pro 64	07/10/12
3212-F8U	4x5	i5-3570	4GBx1	1TB 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Pro 64	07/10/12
3212-M2U	4x5	i7-3770	4GBx2	1TB 7200	Bay	DVD±RW	Media	HD 4000	Intel 2230 + BT	Switch	ES52	vPro	None	Pro 64	11/06/12

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										<b>Preloaded operating system</b>				
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										Genuine Windows® 7 Professional 64				
Implementation	Processor in LGA1155 socket										<b>Ready to install applications</b> (only some listed) ● Rescue and Recovery™ ● Password Manager <b>Preloaded applications</b> (only some listed) ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Power Manager ● View Management Utility ● Lenovo AppShop ● Lenovo Solution Center ● Lenovo Message Center Plus ● Lenovo Simple Tap ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ for Windows ● Windows Live™ Essentials ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now™ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW)				
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets														
Graphics	<i>Some:</i> <b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @60Hz <i>Some:</i> <b>AMD Radeon™ HD 7350</b> , DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I) @60Hz; works along with Intel HD Graphics to support up to four independent monitors														
DP dongle	None														
Disk	SATA 6.0Gb/s 7200 rpm														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support														
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector														
eSATA port	None														
Media reader	<i>Some:</i> 29-in-1 media reader, internal USB 2.0														
Chipset	<b>Intel Q77 Express Chipset</b>														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector														
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2														
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	280 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 6.9" W X 17.4" D X 16.3" H</li> <li>● 175mm W X 442mm D X 414mm H</li> <li>● 24.2 lb (11.0 kg) in maximum configuration</li> <li>● Toolless cover removal, toolless adapter retention</li> <li>● Toolless disk, optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk														
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3														
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														



See footnotes for important warranty information  
 US models announced July 10 or November 6, 2012

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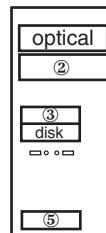
# ThinkCentre M92p Tower (3212) - Windows 8

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro	Global	Preload	Ann date (mm/dd/yy)
3212-H1U	4x5	i7-3770	4GBx1	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Win8 Pro64	10/23/12
3212-K3U	4x5	i5-3470	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win8 Pro64	10/23/12
3212-K4U	4x5	i5-3570	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win8 Pro64	10/23/12
3212-K5U	4x5	i7-3770	4GBx1	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	ES52	vPro	None	Win8 Pro64	10/23/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										<b>Preloaded operating system</b>				
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> Processor in LGA1155 socket										Windows® 8 Pro 64-bit <b>Preloaded applications</b> (only some listed)				
Implementation											<ul style="list-style-type: none"> <li>• ThinkVantage® System Update</li> <li>• View Management Utility</li> <li>• Lenovo® Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Lenovo QuickLaunch</li> <li>• Lenovo Solution Center</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Norton Studio</li> <li>• Intel AppUp®</li> <li>• AccuWeather</li> <li>• PC Device Stage</li> <li>• Evernote™</li> <li>• Skype™</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul>				
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets														
Graphics	<i>Some:</i> <b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @60Hz <i>Some:</i> <b>AMD Radeon™ HD 7450</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I) @60Hz; works along with Intel HD Graphics to support up to four independent monitors														
DP dongle	None														
Disk	SATA 6.0Gb/s 7200 rpm														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support														
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel Q77 Express Chipset</b>														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	280 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 24.2 lb (11.0 kg) in maximum configuration</li> <li>• Toolless cover removal, toolless adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk														
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3														
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														



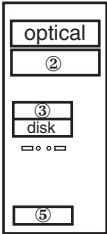
- Security**
- Security chip (see information on left)
  - One lock to secure both cover and entire system to fixed object:
    - Padlock loop (in rear for opt padlock)
    - Security slot (in rear for optional Kensington® MicroSaver® cable)
  - Cable lock
  - Power-on password
  - Hard disk password
  - Boot sequence control
  - Boot without keyboard and mouse
  - Serial port I/O control
  - Individual USB port disablement
  - Chassis intrusion switch on selected model(s)

EPEAT™ Gold rating  
 ENERGY STAR® 5.2-compliant  
 ULE Gold  
 Cisco EnergyWise compatible  
 GREENGUARD® certified  
 RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet



Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro	Global	Preload	Ann date (mm/dd/yy)
3212-K7U	4x5	i5-3470	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-K8U	4x5	i7-3770	4GBx1	1TB 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-K9U	4x5	i5-3570	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-L1U	4x5	i5-3570	4GBx1	1TB 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-L2U	4x5	i7-3770	4GBx1	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-L3U	4x5	i5-3570	4GBx1	250G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-L4U	4x5	i5-3470	2GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-L5U	4x5	i7-3770	4GBx1	500G 7200	Bay	DVD±RW	None	HD 7350	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-L6U	4x5	i7-3770	4GBx1	250G 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-L7U	4x5	i5-3470	4GBx1	500G 7200	Bay	DVD±RW	None	HD 7350	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-L8U	4x5	i5-3470	4GBx1	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-L9U	4x5	i7-3770	4GBx1	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology											Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <b>Ready to install applications</b> (only some listed) • Rescue and Recovery™ • Password Manager			
Implementation	Processor in LGA1155 socket											<b>Preloaded applications</b> (only some listed)			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets														
Graphics	<i>Some: Intel HD Graphics 2500 / 4000</i> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i> <i>Some: AMD Radeon™ HD 7350</i> , DirectX 11, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; <i>Maximum resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz;</i> works along with Intel HD Graphics to support up to four independent monitors <i>Some: AMD Radeon HD 7450</i> , DirectX 11, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Maximum resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz;</i> works along with Intel HD Graphics to support up to four independent monitors														
DP dongle	None														
Disk	SATA 6.0Gb/s 7200 rpm														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support														
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel Q77 Express Chipset</b>														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 2.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Modem	None														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	280 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 24.2 lb (11.0 kg) in maximum configuration</li> <li>• Toolless cover removal, toolless adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk														
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3														
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

**Security**

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
  - Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

EPEAT™ Gold rating  
 ENERGY STAR® 5.2-compliant  
 ULE Gold  
 Cisco EnergyWise compatible  
 GREENGUARD® certified  
 RoHS-compliant

Supports ThinkVantage Technologies

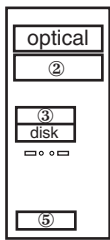
For compatible accessories, please go to O-M92 sheet;  
 For Lenovo service upgrade options, please go to S-TC sheet

# ThinkCentre M92p Tower (3212) - Windows 8 - III

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB	2nd Disk rpm	Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro	Global	Preload	Ann date (mm/dd/yy)
3212-N4U	4x5	i5-3475S	4GBx1	500G	7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Win7 Pro64	03/12/13

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>				
Processor	Intel® Core™ i5-3475S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology											Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit				
Implementation	Processor in LGA1155 socket											<b>Ready to install applications</b> (only some listed)				
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>				
Graphics	Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>											<b>Preloaded applications</b> (only some listed)				
DP dongle	None											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo® AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
Disk	SATA 6.0Gb/s 7200 rpm															
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive															
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support															
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector															
eSATA port	None															
Media reader	None															
Chipset	<b>Intel Q77 Express Chipset</b>															
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort															
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)															
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector															
Audio	High Definition (HD) Audio, Realtek® ALC662 codec															
Speaker	Internal speaker for business audio															
IEEE 1394	None															
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®															
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)															
Modem	None															
Security chip	Trusted Platform Module (TPM1.2-compliant)															
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo															
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo															
Power supply	280 watts, autosensing, 85% PSU															
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 24.2 lb (11.0 kg) in maximum configuration</li> <li>• Toolless cover removal, toolless adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>											<b>Security</b>				
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk											<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>				
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant				
Diagram												Supports ThinkVantage Technologies				
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available															

See footnotes for important warranty information  
US model announced March 12, 2013

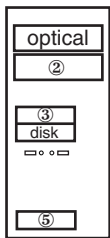
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(MHTN1-36) March 2013

# ThinkCentre M92p Tower (3228) - GMP

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro	Global (G) GMP (P)	Win7 preload (mm/dd/yy)	Ann date
3228-A1U	4x5	i7-3770	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	G P	Pro 64	06/05/12
3228-A2U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	G P	Pro 64	06/19/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>											Genuine Windows® 7 Professional 64  <b>Ready to install applications (only some listed)</b>			
Implementation	Processor in LGA1155 socket											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<b>Preloaded applications (only some listed)</b>			
Graphics	<b>Intel HD Graphics 2500 or Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo AppShop</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
DP dongle	None														
Disk	SATA 6.0Gb/s 7200 rpm														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support														
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel Q77 Express Chipset</b>														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	280 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 24.2 lb (11.0 kg) in maximum configuration</li> <li>• Toolless cover removal</li> <li>• Toolless disk, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk														
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3														
Limited Warranty	<b>3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available</b>														
See footnotes for important warranty information												©Lenovo			
US models announced June 5 or Jun 19, 2012												(MHTN1-16) June 2012			

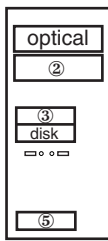


# ThinkCentre M92p Tower (3228) - GMP (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Intel Global (G) vPro GMP (P)	Preload	Ann date (mm/dd/yy)
3228-A3U	4x5	i5-3470	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro G P	Win8 Pro64	10/23/12
3228-A4U	4x5	i5-3470	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro G P	Win7 Pro64	10/23/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>										Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit			
Implementation	Processor in LGA1155 socket										Some: Windows 8 Pro 64-bit			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<b>Preloaded applications (only some listed)</b>			
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>										<b>- Windows 7 models</b>			
DP dongle	None										<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• Lenovo® AppShop</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Windows Live™ Essentials</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Disk	SATA 6.0Gb/s 7200 rpm										<b>- Windows 8 models</b>			
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										<ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul>			
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support										<b>- All models</b>			
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector										<ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>			
eSATA port	None													
Media reader	None													
Chipset	<b>Intel Q77 Express Chipset</b>													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)													
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®													
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)													
Modem	None													
Security chip	Trusted Platform Module (TPM1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	280 watts, autosensing, 85% PSU													
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 24.2 lb (11.0 kg) in maximum configuration</li> <li>• Toolless cover removal</li> <li>• Toolless disk, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>													
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk													
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3													
											<b>Security</b>			
											<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant			
											Supports ThinkVantage Technologies			
											For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													

See footnotes for important warranty information  
US models announced October 23, 2012

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(MHTN1-32) October 2012



## Memory

*Tiny 3234/3243/3238/3237 use notebook memory:*

2GB PC3-12800 DDR3 SODIMM	0A65722	ann	06/05/12
4GB PC3-12800 DDR3 SODIMM	0A65723	ann	06/05/12
8GB PC3-12800 DDR3 SODIMM	0A65724	ann	06/05/12

*Small 3207/2988/3209/3227, and*

*Tower 3208/2992/3212/3228 use desktop memory:*

2GB PC3-12800 DDR3 UDIMM	0A65728	ann	06/05/12
4GB PC3-12800 DDR3 UDIMM	0A65729	ann	06/05/12
8GB PC3-12800 DDR3 UDIMM	0A65730	ann	06/05/12

More information at

[www.lenovo.com/support/desktopmemorycompatibility](http://www.lenovo.com/support/desktopmemorycompatibility)

## Optical

*Small and Tower support:*

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max <sup>4</sup>	41N5618	ann	09/26/06
Lenovo® Super Multi-Burner SATA Drive	0A65618	ann	08/23/11

## Storage and removable storage

*Small and Tower support:*

500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	ann	11/06/07
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	ann	08/19/08
180GB Solid State Drive	0B47308	ann	01/29/13

*All:*

USB 2.0 Portable 500GB Hard Disk	45K1690	ann	05/26/09
USB 3.0 Secure 500GB Hard Drive	0A65619	ann	11/29/11
USB 3.0 Secure 750GB Hard Drive	0A65616	ann	11/29/11
USB 3.0 Secure 1TB Hard Drive	0A65621	ann	08/28/12
Slim USB Portable DVD Burner	0A33988	ann	06/14/11

## Graphics

*Small 3207/2988/3209/3227 support Low Profile:*

NVIDIA NVS 510 2GB Graphics Card by Lenovo <sup>67</sup>	0B47077	ann	01/29/13
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*Tower 3208/2992/3212/3228 support:*

NVIDIA NVS 510 2GB Graphics Card by Lenovo <sup>67</sup>	0B47077	ann	01/29/13
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<sup>67</sup> Simultaneously use the graphic card monitor ports along with the systems integrated monitor ports when Multi-Monitor Support is enabled in BIOS Setup.

More information at [www.lenovo.com/support/graphiccards](http://www.lenovo.com/support/graphiccards)

## Keyboard

Preferred Pro USB Keyboard	73P5220	ann	06/21/05
Enhanced Performance USB Keyboard	73P2620	ann	03/23/04
Ultraslim Plus Wireless Keyboard and Mouse <sup>52</sup>	0A34032	ann	04/05/11
ThinkPad® USB Keyboard with TrackPoint	55Y9003	ann	08/18/09
Lenovo USB Fingerprint Keyboard	73P4730	ann	02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann	03/24/09

<sup>52</sup> Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at [www.lenovo.com/support/keyboards](http://www.lenovo.com/support/keyboards)

## Mouse

Lenovo Optical Mouse (USB)	06P4069	ann	05/21/03
Lenovo ScrollPoint® Mouse(USB, Optical)	31P7405	ann	08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann	06/04/02
Lenovo Laser Mouse (USB)	41U3074	ann	01/23/07
Lenovo Wireless Laser Mouse <sup>62</sup>	0A36188	ann	12/20/11
ThinkPad USB Laser Mouse	57Y4635	ann	12/15/09

More information at [www.lenovo.com/support/mice](http://www.lenovo.com/support/mice)

## Modem

USB 2.0 Lenovo Modem	43R1814	ann	02/26/08
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## Multimedia

ThinkPad In-Ear Headphones with mic <sup>60</sup>	57Y4488	ann	01/07/10
Lenovo Mini Speakers M220	55Y2033	ann	01/07/10
Lenovo Speakers M0520 (black)	57Y6360	ann	02/08/11
Lenovo Speakers M0520 (red)	57Y6361	ann	02/08/11
Lenovo Headset P550	55Y2065		
Lenovo Headset P950 (black)	57Y6605	ann	02/08/11

<sup>60</sup> Has a 1.2 meter (3.9-foot) cable. Best when systems are in close proximity. Example: SFF placed on a desk.

## Security

Kensington® MicroSaver® Cable Lock <sup>56</sup>	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock <sup>56</sup>	45K1620	ann	09/30/08
Lenovo Security Cable Lock <sup>56</sup>	57Y4303	ann	08/24/10
USB Gemplus GemPC Smart Card Reader	41N3040	ann	02/21/06

<sup>56</sup> Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

## Under Desk Mount

*Tiny support:*

ThinkCentre Tiny Under Desk Mount Bracket	0B47097	ann	08/07/12
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## Monitors

ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D) <sup>69</sup>	2448MB6	ann	09/13/11
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	ann	10/20/09
ThinkVision LT2323p Wide 23" (VGA, DP, DVI-D) <sup>69</sup>	3024HC1	ann	05/01/12

<sup>69</sup> DisplayPort cable is not included; use optional DisplayPort to DisplayPort Monitor Cable (0A36537).

More information at [www.lenovo.com/support/monitors](http://www.lenovo.com/support/monitors)

## Monitor Accessories<sup>46</sup>

Lenovo USB 3.0 to DVI/VGA Monitor Adapter	0B47072	ann	08/14/12
DisplayPort™ to Single-link DVI-D Cable	45J7915	ann	08/05/08
DisplayPort to Dual-DisplayPort Monitor Cable	0B47092	ann	06/05/12
DisplayPort to VGA Monitor Cable	57Y4393	ann	08/04/09
DisplayPort to DisplayPort Monitor Cable	0A36537	ann	09/13/11
Lenovo USB Soundbar	0A36190	ann	05/01/12
Kensington MicroSaver Cable Lock <sup>56</sup>	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock <sup>56</sup>	45K1620	ann	09/30/08
Lenovo Security Cable Lock <sup>56</sup>	57Y4303	ann	08/24/10
ThinkCentre Extend Arm	57Y4352	ann	07/06/10

<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

For more information on accessories:

[www.lenovo.com/accessories](http://www.lenovo.com/accessories)

Purchase Lenovo accessories

[www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)

Product specifications on Lenovo Support

[www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)

Option Compatibility Matrix (OCM) and accessory brochures

[www.lenovoquickpick.com](http://www.lenovoquickpick.com)

An Options Compatibility Configurator for Lenovo systems



Lenovo ThinkCentre M92z with Frame Stand



Lenovo ThinkCentre M92z with Monitor Stand



Toolless Back Cover Removal



Toolless Stand Removal



Dual Independent Display with Optional Lenovo ThinkVision Monitor

# ThinkCentre M92z (3280) - 20" (TopSeller) - Win 8 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro Global	Preload	Ann date (mm/dd/yy)	
3280-A1U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	vPro	None	Win8 Pro64	10/23/12
3280-A2U	i5-3470S	4GBx2	2.0M	1TB 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	vPro	None	Win8 Pro64	10/23/12
3280-A5U	i3-3220	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Frame	USB	None	None	Win7 Pro64	11/20/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system<sup>20</sup></b>			
Processor	<b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit			
Implementation	Processor in LGA1155 socket											<b>Preloaded applications (only some listed)</b>			
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<b>- Windows 7 models</b>			
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo® SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
DP dongle	None											<b>- Windows 8 models</b>			
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, work as standalone monitor via DisplayPort-in connector											<ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Settings</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Lenovo QuickLaunch</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul>			
Light sensor	None											<b>- All models</b>			
Multi-touch	None											<ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>			
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off											<b>Security</b>			
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons											<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm											EPEAT™ Gold rating			
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable											ENERGY STAR® 5.2-compliant			
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar											TCO Certified Edge			
Media reader	None											TUV Green Mark			
Chipset	<b>Intel Q77 Express Chipset</b>											ULE Gold			
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)											EuP 2013			
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											Cisco EnergyWise compatible			
ExpressCard	None											GREENGUARD® certified			
mSATA	One mSATA slot											RoHS-compliant			
PCIe Mini Card	One PCI Express® Mini Card slot											Supports ThinkVantage Technologies			
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2											For compatible accessories, please go to O-M92Z sheet;			
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter											For Lenovo service upgrade options, please go to S-TC sheet			
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®														
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	150 watts, autosensing, 85% PSU														
Machine	<i>All:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• Toolless back cover, stand removal</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul> <i>Model(s) with 20" Non multi-touch, Frame stand:</i> <ul style="list-style-type: none"> <li>• 19.8" W X 3.6" D X 16.1" H,</li> <li>• 503mm W X 92.5mm D X 408mm H (including stand)</li> <li>• 18.5 lb (8.4 kg) in maximum configuration</li> </ul> <i>Model(s) with 20" Non multi-touch, Monitor stand:</i> <ul style="list-style-type: none"> <li>• 19.8" W X 5.6" D X 17.6" H,</li> <li>• 503mm W X 143mm D X 448mm H (including stand)</li> <li>• 23.0 lb (10.5 kg) in maximum configuration</li> <li>• Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>														
Limited Warranty	<b>1-year, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

See footnotes for important warranty information  
 US models announced October 23 or November 20, 2012  
 US model(s) withdrawn effective December 2013

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 (MTRL1-19) January 2014

# ThinkCentre M92z (3291) - 20" (TopSeller) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Win7 preload	Ann date (mm/dd/yy)
3291-A8U	G630	4GBx1	2.0M	250G 7200	Intel HD	11b/g/n	None	None	S P	None	Frame	USB	None	None	Pro 64	06/05/12
3291-B9U	i3-2120	4GBx1	2.0M	500G 7200	HD 2000	11b/g/n	None	None	None	None	Monitor	USB	None	None	Pro 64	06/05/12
3291-C1U	i3-2120	4GBx1	2.0M	500G 7200	HD 2000	11b/g/n	None	None	None	None	Monitor	USB	None	None	Prem 32	06/05/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning Processor	<i>Premium All-In-One PC for the enterprise</i> <b>Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket	<b>Preloaded operating system<sup>20</sup></b> <i>Some:</i> Genuine Windows® 7 Home Premium 32 <i>Some:</i> Genuine Windows 7 Professional 64  <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> <li>• Business-in-a-Box</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>
Implementation		
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 2000</b> in processor, uses main memory, HDCP, DirectX® 10.1, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>	
DP dongle	None	
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, work as standalone monitor via DisplayPort-in connector	
Light sensor	None	
Multi-touch	None	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off	
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons	
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm	
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable	
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar	
Media reader	None	
Chipset	<b>Intel Q77 Express Chipset</b>	
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)	
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
ExpressCard	None	
mSATA	One mSATA slot	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®	
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified	
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	150 watts, autosensing, 85% PSU	
Machine	<i>All:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• Toolless back cover, stand removal</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul> <i>Model(s) with 20" Non multi-touch, Frame stand:</i> <ul style="list-style-type: none"> <li>• 19.8" W X 3.6" D X 16.1" H,</li> <li>• 503mm W X 92.5mm D X 408mm H (including stand)</li> <li>• 18.5 lb (8.4 kg) in maximum configuration</li> </ul> <i>Model(s) with 20" Non multi-touch, Monitor stand:</i> <ul style="list-style-type: none"> <li>• 19.8" W X 5.6" D X 17.6" H,</li> <li>• 503mm W X 143mm D X 448mm H (including stand)</li> <li>• 23.0 lb (10.5 kg) in maximum configuration</li> <li>• Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>	<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul> EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	For compatible accessories, please go to O-M92Z sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
 US models announced June 5, 2012  
 US model(s) withdrawn effective May 2013 or November 2013

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 (MTRL1-1) November 2013



# ThinkCentre M92z (3291) - 20" (TopSeller) - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/Mouse	Intel vPro	Global	Win7 preload	Ann date (mm/dd/yy)
3291-A4U	i5-3470T	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	S P	None	Frame	USB	vPro	None	Pro 64	06/05/12
3291-A6U	i7-3770S	4GBx1	2.0M	1TB 7200	HD 4000	11b/g/n	None	None	S P	None	Frame	USB	vPro	None	Pro 64	06/05/12
3291-A7U	i5-3550S	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	S P	None	Frame	USB	vPro	None	Pro 64	06/05/12
3291-A9U	i5-3470T	4GBx1	2.0M	250G 7200	HD 2500	11b/g/n	None	None	S P	None	Frame	2.4G	vPro	None	Pro 64	06/05/12
3291-B1U	i5-3470T	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	S P	None	Frame	2.4G	vPro	None	Pro 64	06/05/12
3291-B2U	i7-3770S	4GBx2	2.0M	1TB 7200	HD 4000	11b/g/n	None	None	S P	None	Frame	2.4G	vPro	None	Pro 64	06/05/12
3291-B6U	i5-3470T	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Frame	USB	vPro	None	Pro 64	06/05/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system<sup>20</sup></b>				
Processor	<b>Intel® Core™ i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3550S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											Genuine Windows® 7 Professional 64				
Implementation												<b>Ready to install applications</b> (only some listed)				
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> <li>• Business-in-a-Box</li> </ul>				
Graphics	<b>Intel HD Graphics 2500 / 4000</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>											<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
DP dongle	None											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>				
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, work as standalone monitor via DisplayPort-in connector															
Light sensor	None															
Multi-touch	None															
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off											<b>ENERGY STAR® 5.2-compliant</b> TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M92Z sheet; For Lenovo service upgrade options, please go to S-TC sheet				
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons															
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm															
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable															
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar															
Media reader	None															
Chipset	<b>Intel Q77 Express Chipset</b>															
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)															
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
ExpressCard	None															
mSATA	One mSATA slot															
PCIe Mini Card	One PCI Express® Mini Card slot															
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2															
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter															
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®															
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified															
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)															
Security chip	Trusted Platform Module (TPM 1.2-compliant)															
Keyboard	<i>Some:</i> Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo <i>Some:</i> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black <i>Some:</i> Enhanced Optical USB Mouse, black, Lenovo logo <i>Some:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M92Z sheet; For Lenovo service upgrade options, please go to S-TC sheet				
Mouse																
Power supply	150 watts, autosensing, 85% PSU															
Machine	<i>Model(s) with 20" Non multi-touch, Frame stand:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 19.8" W X 3.6" D X 16.1" H</li> <li>• 503mm W X 92.5mm D X 408mm H (including stand)</li> <li>• 18.5 lb (8.4 kg) in maximum configuration</li> <li>• Toolless back cover, stand removal</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul>															
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available															

See footnotes for important warranty information  
 US models announced June 5, 2012  
 US model(s) withdrawn effective December 2013

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 (MTRL1-2) January 2014

# ThinkCentre M92z (3291) - 20" (TopSeller) - III - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Win7 Global preload	Ann date (mm/dd/yy)	
3291-B7U	i7-3770S	4GBx2	2.0M	1TB 7200	HD 4000	11b/g/n	Media	None	None	None	Monitor	USB	vPro	None	Pro 64	06/05/12
3291-B8U	i5-3470T	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	vPro	None	Pro 64	06/05/12
3291-C7U	i3-3220	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	None	Pro 64	09/04/12
3291-C9U	i3-3220	2GBx1	2.0M	250G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	None	Pro 64	09/04/12
3291-D1U	i3-3240	2GBx1	2.0M	250G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	None	Pro 64	09/04/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system<sup>20</sup></b>			
Processor	<b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500 integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											Genuine Windows® 7 Professional 64  <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> <li>• Business-in-a-Box</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Implementation	Processor in LGA1155 socket														
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)														
Graphics	<b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>														
DP dongle	None														
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, work as standalone monitor via DisplayPort-in connector														
Light sensor	None														
Multi-touch	None														
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off														
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons														
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm														
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable														
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar														
Media reader	<i>Some:</i> 11-in-1 Single Slot SD media reader														
Chipset	<b>Intel Q77 Express Chipset</b>														
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)														
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
ExpressCard	None														
mSATA	One mSATA slot														
PCIe Mini Card	One PCI Express® Mini Card slot														
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter														
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®														
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											EPEAT™ Gold rating			
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											ENERGY STAR® 5.2-compliant			
Power supply	150 watts, autosensing, 85% PSU											TCO Certified Edge			
Machine	<i>Model(s) with 20" Non multi-touch, Monitor stand:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 19.8" W X 5.6" D X 17.6" H</li> <li>• 503mm W X 143mm D X 448mm H (including stand)</li> <li>• 23.0 lb (10.5 kg) in maximum configuration</li> <li>• Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> <li>• Toolless back cover, stand removal</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul>											TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies For compatible accessories, please go to O-M92Z sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information  
 US models announced June 5 or September 4, 2012  
 US model(s) withdrawn effective December 2013

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 (MTRL1-3) January 2014

# ThinkCentre M92z (3291) - 20" (TopSeller) - Win 8 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date (mm/dd/yy)
3291-C5U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	vPro	None	Win8 Pro64	10/23/12
3291-C8U	i3-3220	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	None	Win8 Pro64	10/23/12
3291-D2U	i3-3220	2GBx1	2.0M	250G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	None	Win8 Pro64	10/23/12
3291-D3U	i3-3240	2GBx1	2.0M	250G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	None	Win8 Pro64	10/23/12
3291-D6U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64	10/23/12
3291-D7U	i3-3220	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	None	Win7 Pro64	10/23/12
3291-E1U	i3-3220	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Frame	USB	None	None	Win7 Pro64	12/04/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system<sup>20</sup></b>				
Processor	<b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit				
Implementation												<b>Preloaded applications</b> (only some listed) <b>- Windows 7 models</b>				
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo® SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort) @60Hz</i>											<b>- Windows 8 models</b>				
DP dongle	None											<ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Settings</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Lenovo QuickLaunch</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul>				
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, work as standalone monitor via DisplayPort-in connector															
Light sensor	None															
Multi-touch	None															
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off															
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons															
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm															
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable															
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar															
Media reader	None											<b>- All models</b>				
Chipset	<b>Intel Q77 Express Chipset</b>											<ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>				
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)															
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
ExpressCard	None															
mSATA	One mSATA slot															
PCIe Mini Card	One PCI Express® Mini Card slot															
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2															
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter											<b>Security</b>				
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®											<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>				
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified															
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)															
Security chip	Trusted Platform Module (TPM 1.2-compliant)															
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo															
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo															
Power supply	150 watts, autosensing, 85% PSU															
Machine	<i>All:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• Toolless back cover, stand removal</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul> <i>Model(s) with 20" Non multi-touch, Frame stand:</i> <ul style="list-style-type: none"> <li>• 19.8" W X 3.6" D X 16.1" H,</li> <li>• 503mm W X 92.5mm D X 408mm H (including stand)</li> <li>• 18.5 lb (8.4 kg) in maximum configuration</li> </ul> <i>Model(s) with 20" Non multi-touch, Monitor stand:</i> <ul style="list-style-type: none"> <li>• 19.8" W X 5.6" D X 17.6" H,</li> <li>• 503mm W X 143mm D X 448mm H (including stand)</li> <li>• 23.0 lb (10.5 kg) in maximum configuration</li> <li>• Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant				
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies For compatible accessories, please go to O-M92Z sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information  
 US models announced October 23 or December 4, 2012  
 US model(s) withdrawn effective December 2013

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 (MTRL1-20) January 2014



# ThinkCentre M92z (3296) - 20" - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Win7 Global pre-load	Ann date (mm/dd/yy)
3296-B1U	i3-2130	4GBx1	2.0M	500G 7200	HD 2000	11b/g/n	None	None	S P	None	Frame	USB	None	None	Pro 64 06/05/12
3296-B6U	G630	4GBx1	None	250G 7200	Intel HD	None	None	None	S P	None	Frame	USB	None	None	Pro 64 06/05/12
3296-B7U	G630	4GBx1	2.0M	250G 7200	Intel HD	11b/g/n	None	None	S P	None	Frame	USB	None	None	Pro 64 06/05/12

●3-year limited warranty

Positioning Processor	<i>Premium All-In-One PC for the enterprise</i> <b>Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core™ i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache)</b> , integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										<b>Preloaded operating system<sup>20</sup></b> Genuine Windows® 7 Professional 64 <b>Ready to install applications</b> (only some listed) ● Rescue and Recovery™ ● Password Manager ● Business-in-a-Box				
Implementation											<b>Preloaded applications</b> (only some listed) ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Automatic Lock Utility ● ThinkVantage Power Manager ● View Management Utility ● Lenovo Solution Center ● Lenovo Message Center Plus ● RapidBoot HDD Accelerator ● Lenovo SimpleTap ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ for Windows ● Windows Live™ Essentials ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now™ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW)				
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)														
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 2000</b> in processor, uses main memory, HDCP, DirectX® 10.1, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>														
DP dongle Display	None <b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, work as standalone monitor via DisplayPort-in connector														
Light sensor	None														
Multi-touch	None														
Camera	<i>Some:</i> Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off														
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons														
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm														
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable														
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar														
Media reader	None														
Chipset	<b>Intel Q77 Express Chipset</b>														
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)														
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
ExpressCard	None														
mSATA	One mSATA slot														
PCIe Mini Card	One PCI Express® Mini Card slot														
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2														
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter														
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®														
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	150 watts, autosensing, 85% PSU														
Machine	<i>Model(s) with 20" Non multi-touch, Frame stand:</i> ● Business black color ● 19.8" W X 3.6" D X 16.1" H ● 503mm W X 92.5mm D X 408mm H (including stand) ● 18.5 lb (8.4 kg) in maximum configuration ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm)										<b>Security</b> ● Security chip (see information on left) ● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis) ● Power-on password ● Hard disk password ● Boot sequence control ● Boot without keyboard and mouse ● USB port disablement ● <i>Chassis intrusion switch on selected model(s)</i>				
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M92Z sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information  
US models announced June 5, 2012  
US model(s) withdrawn effective May or December 2013

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(MTRL1-4) January 2014



# ThinkCentre M92z (3296) - 20" - III - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Win7 Global preload	Ann date (mm/dd/yy)
3296-E4U	i5-3470T	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	vPro	None	Pro 64 06/05/12
3296-E7U	i7-3770S	4GBx2	2.0M	1TB 7200	HD 4000	11b/g/n	Media	None	None	None	Monitor	USB	vPro	None	Pro 64 06/05/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- These models have a 3-year limited warranty

Positioning Processor	<i>Premium All-In-One PC for the enterprise</i> <b>Intel® Core™ i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> Processor in LGA1155 socket											<b>Preloaded operating system<sup>20</sup></b> Genuine Windows® 7 Professional 64 <b>Ready to install applications (only some listed)</b> ● Rescue and Recovery™ ● Password Manager ● Business-in-a-Box			
Implementation	Processor in LGA1155 socket											<b>Preloaded applications (only some listed)</b> ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Automatic Lock Utility ● ThinkVantage Power Manager ● View Management Utility ● Lenovo Solution Center ● Lenovo Message Center Plus ● RapidBoot HDD Accelerator ● Lenovo SimpleTap ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ for Windows ● Windows Live™ Essentials ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now™ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW)			
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)														
Graphics	<b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>														
DP dongle	None														
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, work as standalone monitor via DisplayPort-in connector														
Light sensor	None														
Multi-touch	None														
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off														
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons														
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm														
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable														
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar														
Media reader	<i>Some:</i> 11-in-1 Single Slot SD media reader														
Chipset	<b>Intel Q77 Express Chipset</b>														
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)														
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
ExpressCard	None														
mSATA	One mSATA slot														
PCIe Mini Card	One PCI Express® Mini Card slot														
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2														
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter														
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®														
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	150 watts, autosensing, 85% PSU														
Machine	<i>Model(s) with 20" Non multi-touch, Monitor stand:</i> ● Business black color ● 19.8" W X 5.6" D X 17.6" H ● 503mm W X 143mm D X 448mm H (including stand) ● 23.0 lb (10.5 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45° ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm)											<b>Security</b> ● Security chip (see information on left) ● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis) ● Power-on password ● Hard disk password ● Boot sequence control ● Boot without keyboard and mouse ● USB port disablement ● Chassis intrusion switch on selected model(s)			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M92Z sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information  
 US models announced June 5, 2012  
 US model(s) withdrawn effective December 2013

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 (MTRL1-6) January 2014

# ThinkCentre M92z (3296) - 20" - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Win7 Global preload	Ann date (mm/dd/yy)
3296-B2U	i5-3470T	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	S P	None	Frame	USB	vPro	None	Pro 64 06/05/12
3296-B3U	i5-3550S	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	S P	None	Frame	USB	vPro	None	Pro 64 06/05/12
3296-B5U	i7-3770S	4GBx2	2.0M	1TB 7200	HD 4000	11b/g/n	None	None	S P	None	Frame	USB	vPro	None	Pro 64 06/05/12
3296-E5U	i5-3470T	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Frame	USB	vPro	None	Pro 64 06/05/12
3296-E6U	i7-3770S	4GBx2	2.0M	1TB 7200	HD 4000	11b/g/n	Media	None	None	None	Frame	USB	vPro	None	Pro 64 06/05/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

Positioning Processor	<i>Premium All-In-One PC for the enterprise</i> <b>Intel® Core™ i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i5-3550S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> Processor in LGA1155 socket	<b>Preloaded operating system<sup>20</sup></b> Genuine Windows® 7 Professional 64 <b>Ready to install applications (only some listed)</b> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> <li>• Business-in-a-Box</li> </ul> <b>Preloaded applications (only some listed)</b> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>
Implementation		
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	
Graphics	<b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>	
DP dongle	None	
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, work as standalone monitor via DisplayPort-in connector	
Light sensor	None	
Multi-touch	None	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off	
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons	
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm	
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable	
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar	
Media reader	<i>Some:</i> 11-in-1 Single Slot SD media reader	
Chipset	<b>Intel Q77 Express Chipset</b>	
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)	
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
ExpressCard	None	
mSATA	One mSATA slot	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®	
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified	
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	150 watts, autosensing, 85% PSU	
Machine	<i>Model(s) with 20" Non multi-touch, Frame stand:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 19.8" W X 3.6" D X 16.1" H</li> <li>• 503mm W X 92.5mm D X 408mm H (including stand)</li> <li>• 18.5 lb (8.4 kg) in maximum configuration</li> <li>• Toolless back cover, stand removal</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul>	<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M92Z sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US models announced June 5, 2012  
US model(s) withdrawn effective December 2013

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(MTRL1-5) January 2014

# ThinkCentre M92z (3296) - 20" (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Intel Mouse vPro	Global	Preload	Ann date (mm/dd/yy)	
3296-F6U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Frame	USB	vPro	None	Win8 Pro64	10/23/12
3296-G6U	i3-3220	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Frame	USB	None	None	Win8 Pro64	10/23/12
3296-G7U	i3-3240	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Frame	USB	None	None	Win8 Pro64	10/23/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

Positioning Processor	<i>Premium All-In-One PC for the enterprise</i> <b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											<b>Preloaded operating system<sup>20</sup></b> Windows® 8 Pro 64-bit <b>Preloaded applications (only some listed)</b> <ul style="list-style-type: none"> <li>• ThinkVantage® System Update</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• View Management Utility</li> <li>• Lenovo® Support</li> <li>• Lenovo Settings</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Lenovo QuickLaunch</li> <li>• Lenovo Solution Center</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Norton Studio</li> <li>• Intel AppUp®</li> <li>• AccuWeather</li> <li>• PC Device Stage</li> <li>• Evernote™</li> <li>• Skype™</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul>
Implementation	Processor in LGA1155 socket											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>											
DP dongle	None											
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, work as standalone monitor via DisplayPort-in connector											
Light sensor	None											
Multi-touch	None											
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off											
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons											
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm											
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable											
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar											
Media reader	None											
Chipset	<b>Intel Q77 Express Chipset</b>											
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)											
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
ExpressCard	None											
mSATA	One mSATA slot											
PCIe Mini Card	One PCI Express® Mini Card slot											
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2											
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter											
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®											
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified											
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)											
Security chip	Trusted Platform Module (TPM 1.2-compliant)											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Power supply	150 watts, autosensing, 85% PSU											
Machine	<i>Model(s) with 20" Non multi-touch, Frame stand:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 19.8" W X 3.6" D X 16.1" H</li> <li>• 503mm W X 92.5mm D X 408mm H (including stand)</li> <li>• 18.5 lb (8.4 kg) in maximum configuration</li> <li>• Toolless back cover, stand removal</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul>											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies For compatible accessories, please go to O-M92Z sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US models announced October 23, 2012  
US model(s) withdrawn effective December 2013

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(MTRL1-21) January 2014



# ThinkCentre M92z (3296) - 20" (Win 8) - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date (mm/dd/yy)
3296-F4U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	vPro	None	Win8 Pro64	10/23/12
3296-F5U	i5-3470S	4GBx2	2.0M	1TB 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	vPro	None	Win8 Pro64	10/23/12
3296-G8U	i3-3240	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	None	Win8 Pro64	10/23/12
3296-G9U	i3-3220	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	None	Win8 Pro64	10/23/12
3296-H1U	i5-3470T	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	vPro	None	Win8 Pro64	10/23/12
3296-H2U	i5-3570S	4GBx1	2.0M	1TB 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	vPro	None	Win8 Pro64	10/23/12
3296-H3U	i5-3570S	4GBx2	2.0M	1TB 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	vPro	None	Win8 Pro64	10/23/12
3296-H7U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64	10/23/12
3296-J8U	i5-3470S	4GBx1	2.0M	180G SSD	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64	11/20/12

Positioning Processor	<i>Premium All-In-One PC for the enterprise</i> <b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache)</b> , integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache)</b> , Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache)</b> , Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3570S Processor (4 cores / 4 threads, 3.1GHz, 6MB cache)</b> , Turbo Boost 2.0 (3.8GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											<b>Preloaded operating system<sup>20</sup></b> <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 8 Pro 64-bit <b>Preloaded applications (only some listed)</b> <b>- Windows 7 models</b> <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>RapidBoot HDD Accelerator</li> <li>Lenovo® SimpleTap</li> <li>Adobe® Reader®</li> <li>Corel® Burn.Now™ (DVD±RW)</li> <li>Corel DVD MovieFactory® (DVD±RW)</li> </ul> <b>- Windows 8 models</b> <ul style="list-style-type: none"> <li>Lenovo Support</li> <li>Lenovo Settings</li> <li>Lenovo Companion</li> <li>Lenovo Cloud Storage</li> <li>Lenovo QuickLaunch</li> <li>Norton™ Studio</li> <li>AccuWeather</li> <li>Evernote®</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> </ul> <b>- All models</b> <ul style="list-style-type: none"> <li>ThinkVantage System Update</li> <li>ThinkVantage Automatic Lock Utility</li> <li>Lenovo Solution Center</li> <li>View Management Utility</li> <li>Norton Internet Security (30 days of virus definitions)</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Skype™</li> </ul>				
Implementation	Processor in LGA1155 socket															
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)															
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>															
DP dongle	None															
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, work as standalone monitor via DisplayPort-in connector															
Light sensor	None															
Multi-touch	None															
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off															
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons															
Disk	<i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide <i>Some:</i> Hard Disk Drive / SATA 6.0Gb/s, 3.5" Wide, 7200 rpm															
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable															
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar															
Media reader	<i>Some:</i> 11-in-1 Single Slot SD media reader															
Chipset	<b>Intel Q77 Express Chipset</b>															
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)															
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
ExpressCard	None															
mSATA	One mSATA slot															
PCIe Mini Card	One PCI Express® Mini Card slot															
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2															
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter															
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®															
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified															
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)															
Security chip	Trusted Platform Module (TPM 1.2-compliant)															
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo															
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo															
Power supply	150 watts, autosensing, 85% PSU															
Machine	<i>Model(s) with 20" Non multi-touch, Monitor stand:</i> <ul style="list-style-type: none"> <li>Business black color</li> <li>19.8" W X 5.6" D X 17.6" H</li> <li>503mm W X 143mm D X 448mm H (including stand)</li> <li>23.0 lb (10.5 kg) in maximum configuration</li> <li>Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> <li>Toolless back cover, stand removal</li> <li>Toolless disk, optical drive, memory removal</li> <li>Support VESA mount (100mm)</li> </ul>											<b>EPEAT™ Gold rating</b> <b>ENERGY STAR® 5.2-compliant</b> TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible <b>GREENGUARD® certified</b> RoHS-compliant				
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies For compatible accessories, please go to O-M92Z sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information  
US models announced October 23 or November 20, 2012  
US model(s) withdrawn effective December 2013

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# ThinkCentre M92z (3298) - 20" (GMP) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel Global (G) vPro G P	Win7 preload (mm/dd/yy)	Ann date	
3298-A2U	i7-3770S	4GBx1	2.0M	500G 7200	HD 4000	11b/g/n	Media	Sensor	None	Switch	Frame	USB	vPro	G P	Pro 64	06/05/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system<sup>20</sup></b>			
Processor	<b>Intel® Core™ i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket</b>											Genuine Windows® 7 Professional 64			
Implementation	Processor in LGA1155 socket											<b>Ready to install applications</b> (only some listed)			
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> <li>• Business-in-a-Box</li> </ul>			
Graphics	<b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>											<b>Preloaded applications</b> (only some listed)			
DP dongle	None											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, work as standalone monitor via DisplayPort-in connector														
Light sensor	Ambient Light Sensor														
Multi-touch	None														
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off														
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons														
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm														
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable														
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar														
Media reader	11-in-1 Single Slot SD media reader														
Chipset	<b>Intel Q77 Express Chipset</b>														
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)														
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
ExpressCard	None														
mSATA	One mSATA slot														
PCIe Mini Card	One PCI Express® Mini Card slot														
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2														
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter														
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®														
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Security chip	Trusted Platform Module (TPM 1.2-compliant)											<b>Security</b>			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo											<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	150 watts, autosensing, 85% PSU														
Machine	<i>Model(s) with 20" Non multi-touch, Frame stand:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 19.8" W X 3.6" D X 16.1" H,</li> <li>• 503mm W X 92.5mm D X 408mm H (including stand)</li> <li>• 18.5 lb (8.4 kg) in maximum configuration</li> <li>• Toolless back cover, stand removal</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul>											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to O-M92Z sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information  
 US model announced June 5, 2012  
 US model(s) withdrawn effective December 2013

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 (MTRL1-7) January 2014

# ThinkCentre M92z (3298) - 20" (GMP) - Win 8 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
3298-A4U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	Media	Sensor	None	Switch	Frame	USB	vPro	G P	Win8 Pro64	10/23/12
3298-A6U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	Media	Sensor	None	None	Frame	USB	vPro	G P	Win7 Pro64	10/23/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system<sup>20</sup></b>				
Processor	<b>Intel® Core™ i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>											Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit				
Implementation	Processor in LGA1155 socket											Some: Windows 8 Pro 64-bit				
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<b>Preloaded applications</b> (only some listed)				
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>											<b>- Windows 7 models</b>				
DP dongle	None											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo® SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, work as standalone monitor via DisplayPort-in connector											<b>- Windows 8 models</b>				
Light sensor	Ambient Light Sensor											<ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Settings</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Lenovo QuickLaunch</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul>				
Multi-touch	None											<b>- All models</b>				
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off											<ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>				
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons											<b>Security</b>				
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm											<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>				
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable											EPEAT™ Gold rating				
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar											ENERGY STAR® 5.2-compliant				
Media reader	11-in-1 Single Slot SD media reader											TCO Certified Edge				
Chipset	<b>Intel Q77 Express Chipset</b>											TUV Green Mark				
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)											ULE Gold				
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											EuP 2013				
ExpressCard	None											Cisco EnergyWise compatible				
mSATA	One mSATA slot											GREENGUARD® certified				
PCIe Mini Card	One PCI Express® Mini Card slot											RoHS-compliant				
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2											Supports ThinkVantage Technologies				
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter											For compatible accessories, please go to O-M92Z sheet;				
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®											For Lenovo service upgrade options, please go to S-TC sheet				
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified															
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)															
Security chip	Trusted Platform Module (TPM 1.2-compliant)															
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo															
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo															
Power supply	150 watts, autosensing, 85% PSU															
Machine	<i>Model(s) with 20" Non multi-touch, Frame stand:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 19.8" W X 3.6" D X 16.1" H,</li> <li>• 503mm W X 92.5mm D X 408mm H (including stand)</li> <li>• 18.5 lb (8.4 kg) in maximum configuration</li> <li>• Toolless back cover, stand removal</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul>															
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available															

See footnotes for important warranty information  
 US models announced October 23, 2012  
 US model(s) withdrawn effective December 2013

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 (MTRL1-23) January 2014

# ThinkCentre M92z (3315) - 23" (TopSeller) - Win 8 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCle Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse vPro Global	Preload	Ann date (mm/dd/yy)
3315-A3U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB vPro	None	Win8 Pro64 10/23/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system<sup>20</sup></b>
Processor	<b>Intel® Core™ i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>											Windows® 8 Pro 64-bit
Implementation	Processor in LGA1155 socket											<b>Preloaded applications (only some listed)</b>
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>● ThinkVantage® System Update</li> <li>● ThinkVantage Automatic Lock Utility</li> <li>● View Management Utility</li> <li>● Lenovo® Support</li> <li>● Lenovo Settings</li> <li>● Lenovo Companion</li> <li>● Lenovo Cloud Storage</li> <li>● Lenovo QuickLaunch</li> <li>● Lenovo Solution Center</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Norton Studio</li> <li>● Intel AppUp®</li> <li>● AccuWeather</li> <li>● PC Device Stage</li> <li>● Evernote®</li> <li>● Skype™</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> </ul>
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>											
DP dongle	None											
Display	<b>23.0"</b> (580.4mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector											
Light sensor	None											
Multi-touch	None											
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off											
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons											
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm											
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable											
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar											
Media reader	11-in-1 Single Slot SD media reader											
Chipset	<b>Intel Q77 Express Chipset</b>											
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)											
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
ExpressCard	None											
mSATA	One mSATA slot											
PCle Mini Card	One PCI Express® Mini Card slot											
PCle WLAN	11b/g/n wireless, PCle Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2											
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter											
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®											
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified											
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)											
Security chip	Trusted Platform Module (TPM 1.2-compliant)											<b>Security</b>
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo											<ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>● Power-on password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Power supply	150 watts, autosensing, 85% PSU											
Machine	<i>Model(s) with 23" Non multi-touch, Monitor stand:</i> <ul style="list-style-type: none"> <li>● Business black color</li> <li>● 22.4" W X 9.7" D X 17.8" H</li> <li>● 568mm W X 247mm D X 452mm H (including stand)</li> <li>● 25.7 lb (11.7 kg) in maximum configuration</li> <li>● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> <li>● Toolless back cover, stand removal</li> <li>● Toolless disk, optical drive, memory removal</li> <li>● Support VESA mount (100mm)</li> </ul>											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant
Limited Warranty	<b>1-year, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies For compatible accessories, please go to O-M92Z sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US model announced October 23, 2012  
US model(s) withdrawn effective December 2013

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(MTRL1-24) January 2014

# ThinkCentre M92z (3318) - 23" (TopSeller) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/Mouse	Intel vPro	Global	Win7 preload	Ann date (mm/dd/yy)
3318-C2U	i3-2120	4GBx1	2.0M	500G 7200	HD 2000	11b/g/n	None	None	None	None	Monitor	USB	None	None	Pro 64	06/05/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system<sup>20</sup></b>			
Processor	Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											Genuine Windows® 7 Professional 64			
Implementation	Processor in LGA1155 socket											<b>Ready to install applications</b> (only some listed)			
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> <li>• Business-in-a-Box</li> </ul>			
Graphics	Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX® 10.1, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>											<b>Preloaded applications</b> (only some listed)			
DP dongle	None											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Display	<b>23.0"</b> (580.4mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector														
Light sensor	None														
Multi-touch	None														
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off														
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons														
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm														
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable														
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar														
Media reader	None														
Chipset	<b>Intel Q77 Express Chipset</b>														
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)														
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
ExpressCard	None														
mSATA	One mSATA slot														
PCIe Mini Card	One PCI Express® Mini Card slot														
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2														
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter														
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®														
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	150 watts, autosensing, 85% PSU														
Machine	<i>Model(s) with 23" Non multi-touch, Monitor stand:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 22.4" W X 9.7" D X 17.8" H</li> <li>• 568mm W X 247mm D X 452mm H (including stand)</li> <li>• 25.7 lb (11.7 kg) in maximum configuration</li> <li>• Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> <li>• Toolless back cover, stand removal</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul>											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M92Z sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information  
US models announced June 5, 2012  
US model(s) withdrawn effective November 2013

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(MTRL1-8) November 2013



# ThinkCentre M92z (3318) - 23" (TopSeller) - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Win7 preload	Ann date (mm/dd/yy)
3318-A4U	i5-3470T	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	S P	None	Frame	USB	vPro	None	Pro 64	06/05/12
3318-A5U	i5-3550S	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	S P	None	Frame	USB	vPro	None	Pro 64	06/05/12
3318-A6U	i7-3770S	4GBx2	2.0M	500G 7200	HD 4000	11b/g/n	None	None	S P	None	Frame	USB	vPro	None	Pro 64	06/05/12
3318-B7U	i5-3470T	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	S P	None	Frame	USB	vPro	None	Pro 64	06/05/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning Processor	<i>Premium All-In-One PC for the enterprise</i> <b>Intel® Core™ i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3550S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket	<b>Preloaded operating system<sup>20</sup></b> Genuine Windows® 7 Professional 64 <b>Ready to install applications</b> (only some listed) ● Rescue and Recovery™ ● Password Manager ● Business-in-a-Box <b>Preloaded applications</b> (only some listed) ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Automatic Lock Utility ● ThinkVantage Power Manager ● View Management Utility ● Lenovo Solution Center ● Lenovo Message Center Plus ● RapidBoot HDD Accelerator ● Lenovo SimpleTap ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ for Windows ● Windows Live™ Essentials ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now™ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW)
Implementation		
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	
Graphics	<b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>	
DP dongle	None	
Display	<b>23.0"</b> (580.4mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector	
Light sensor	None	
Multi-touch	None	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off	
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons	
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm	
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable	
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar	
Media reader	None	
Chipset	<b>Intel Q77 Express Chipset</b>	
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)	
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
ExpressCard	None	
mSATA	One mSATA slot	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®	
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified	
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	<b>Security</b> ● Security chip (see information on left) ● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis) ● Power-on password ● Hard disk password ● Boot sequence control ● Boot without keyboard and mouse ● USB port disablement ● Chassis intrusion switch on selected model(s)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	EPEAT™ Gold rating
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	ENERGY STAR® 5.2-compliant
Power supply	150 watts, autosensing, 85% PSU	TCO Certified Edge
Machine	<i>Model(s) with 23" Non multi-touch, Frame stand:</i> ● Business black color ● 22.4" W X 3.7" D X 17.6" H ● 568mm W X 93mm D X 447mm H (including stand) ● 21.5 lb (9.8 kg) in maximum configuration ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm)	TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	Supports ThinkVantage Technologies For compatible accessories, please go to O-M92Z sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US models announced June 5, 2012  
US model(s) withdrawn effective December 2013

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(MTRL1-9) January 2014

# ThinkCentre M92z (3318) - 23" (TopSeller) - III - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro Global	Win7 preload	Ann date (mm/dd/yy)
3318-B6U	i5-3470T	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	vPro None	Pro 64	06/05/12
3318-B8U	i7-3770S	4GBx1	2.0M	500G 7200	HD 4000	11b/g/n	Media	None	None	None	Monitor	USB	vPro None	Pro 64	06/05/12
3318-B9U	i7-3770S	4GBx1	2.0M	500G 7200	HD 4000	11b/g/n	None	None	None	None	Monitor	2.4G	vPro None	Pro 64	06/05/12
3318-C1U	i7-3770S	4GBx2	2.0M	1TB 7200	HD 4000	11b/g/n	None	None	None	None	Monitor	2.4G	vPro None	Pro 64	06/05/12
3318-E3U	i3-3220	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	Pro 64	09/04/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>	<b>Preloaded operating system<sup>20</sup></b> Genuine Windows® 7 Professional 64 <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> <li>• Business-in-a-Box</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>
Processor	Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller	
Implementation	Intel Core i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology	
Memory	Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket	
Graphics	16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)	
DP dongle	Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort)@60Hz	
Display	None	
Light sensor	23.0" (580.4mm) Full HD 1080p (1920x1080) TFT color, IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector	
Multi-touch	None	
Camera	None	
Controls	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off	
Disk	Front: Microphone mute, speaker mute, monitor mode, OSD menu, and power button Side: Volume up and down buttons	
Optical	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm	
Onboard SATA	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable	
Media reader	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar Some: 11-in-1 Single Slot SD media reader	
Chipset	Intel Q77 Express Chipset	
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)	
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
ExpressCard	None	
mSATA	One mSATA slot	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®	
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified	
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Some: Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Some: Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black	
Mouse	Some: Enhanced Optical USB Mouse, black, Lenovo logo Some: Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black	
Power supply	150 watts, autosensing, 85% PSU	
Machine	Model(s) with 23" Non multi-touch, Monitor stand: <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 22.4" W X 9.7" D X 17.8" H</li> <li>• 568mm W X 247mm D X 452mm H (including stand)</li> <li>• 25.7 lb (11.7 kg) in maximum configuration</li> <li>• Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> <li>• Toolless back cover, stand removal</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul>	
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	
		<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>
		EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies
		For compatible accessories, please go to O-M92Z sheet; For Lenovo service upgrade options, please go to S-TC sheet

# ThinkCentre M92z (3318) - 23" (TopSeller) - Win 8 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial PS/2 port	Chassis intrusion switch	Stand type	Key-board/Mouse	Intel vPro Global	Preload	Ann date (mm/dd/yy)
3318-E5U	i5-3470T	4GBx1	2.0M	1TB 7200	HD 2500	Intel 2230 + BT	Media	None	None	None	Frame	USB	vPro	None	Win8 Pro64 10/23/12
3318-E6U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	Intel 2230 + BT	Media	None	None	None	Frame	USB	vPro	None	Win8 Pro64 10/23/12
3318-E7U	i5-3570S	4GBx1	2.0M	500G 7200	HD 2500	Intel 2230 + BT	Media	None	None	None	Frame	USB	vPro	None	Win8 Pro64 10/23/12
3318-H5U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	Intel 2230 + BT	None	None	None	None	Frame	USB	vPro	None	Win7 Pro64 11/20/12
3318-H7U	i3-3220	4GBx1	2.0M	180G SSD	HD 2500	Intel 2230 + BT	None	None	None	None	Frame	USB	None	None	Win7 Pro64 11/20/12
3318-J1U	i3-3220	4GBx1	2.0M	500G 7200	HD 2500	Intel 2230 + BT	None	None	None	None	Frame	USB	None	None	Win7 Pro64 12/04/12
3318-J5U	G870	4GBx1	2.0M	500G 7200	Intel HD	Intel 2230 + BT	None	None	None	None	Frame	USB	None	None	Win7 Pro64 01/22/13
3318-J8U	i5-3330S	4GBx1	2.0M	1TB 7200	HD 2500	Intel 2230 + BT	None	None	None	None	Frame	USB	None	None	Win7 Pro64 03/12/13

Positioning Processor	<p><i>Premium All-In-One PC for the enterprise</i></p> <p><b>Intel® Pentium® G870 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache)</b>, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b>, integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller</p> <p><b>Intel Core i5-3330S Processor (4 cores / 4 threads, 2.7GHz, 6MB cache)</b>, Turbo Boost 2.0 (3.2GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache)</b>, Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache)</b>, Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i5-3570S Processor (4 cores / 4 threads, 3.1GHz, 6MB cache)</b>, Turbo Boost 2.0 (3.8GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Processor in LGA1155 socket</p>	<p><b>Preloaded operating system<sup>20</sup></b></p> <p><i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</p> <p><i>Some:</i> Windows 8 Pro 64-bit</p> <p><b>Preloaded applications (only some listed)</b></p> <p><b>- Windows 7 models</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo® SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul> <p><b>- Windows 8 models</b></p> <ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Settings</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Lenovo QuickLaunch</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul> <p><b>- All models</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>
Implementation	Processor in LGA1155 socket	
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 2500</b> in processor, uses main memory, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort)@60Hz	
DP dongle	None	
Display	<b>23.0"</b> (580.4mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector	
Light sensor	None	
Multi-touch	None	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off	
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons	
Disk	<i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide <i>Some:</i> Hard Disk Drive / SATA 6.0Gb/s, 3.5" Wide, 7200 rpm	
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable	
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar	
Media reader	<i>Some:</i> 11-in-1 Single Slot SD media reader	
Chipset	<b>Intel Q77 Express Chipset</b>	
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)	
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
ExpressCard	None	
mSATA	One mSATA slot	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®	
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified	
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	150 watts, autosensing, 85% PSU	
Machine	<p><i>Model(s) with 23" Non multi-touch, Frame stand:</i></p> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 22.4" W X 3.7" D X 17.6" H</li> <li>• 568mm W X 93mm D X 447mm H (including stand)</li> <li>• 21.5 lb (9.8 kg) in maximum configuration</li> <li>• Toolless back cover, stand removal</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul>	<p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 5.2-compliant</p> <p>TCO Certified Edge</p> <p>TUV Green Mark</p> <p>ULE Gold</p> <p>EuP 2013</p> <p>Cisco EnergyWise compatible</p> <p>GREENGUARD® certified</p> <p>RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to O-M92Z sheet;</p> <p>For Lenovo service upgrade options, please go to S-TC sheet</p>
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	

See footnotes for important warranty information

US models announced Oct 23, 2012, Nov 20, 2012, Dec 4, 2012, Jan 22, 2013, or Mar 12, 2013

US model(s) withdrawn effective November or December 2013

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(MTRL1-25) January 2014



# ThinkCentre M92z (3318) - 23" (TopSeller) - Win 8 - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date (mm/dd/yy)
3318-E2U	i3-3220	4GBx1 2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	None	Monitor	USB	None	None	Win8 Pro64	10/23/12
3318-F5U	i3-3220	4GBx1 2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	None	Monitor	USB	None	None	Win8 Pro64	10/23/12
3318-F6U	i3-3240	4GBx1 2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	None	Monitor	USB	None	None	Win8 Pro64	10/23/12
3318-F3U	i3-3240	4GBx1 2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	None	Monitor	USB	None	None	Win8 Pro64	10/23/12
3318-F4U	G870	4GBx1 2.0M	500G 7200	Intel HD	11b/g/n	None	None	None	None	None	Monitor	USB	None	None	Win8 Pro64	10/23/12
3318-F9U	i3-3220	4GBx1 2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	None	Monitor	USB	None	None	Win7 Pro64	10/23/12
3318-J3U	G2120	4GBx1 2.0M	500G 7200	Intel HD	11b/g/n	None	None	None	None	None	Monitor	USB	None	None	Win7 Pro64	12/04/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning Processor	<i>Premium All-In-One PC for the enterprise</i> <b>Intel® Pentium® G870 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Pentium G2120 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache)</b> , integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller	<b>Preloaded operating system<sup>20</sup></b> <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 8 Pro 64-bit
Implementation	Processor in LGA1155 socket	<b>Preloaded applications (only some listed) - Windows 7 models</b> <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Power Manager</li> <li>● Lenovo® SimpleTap</li> <li>● Adobe® Reader®</li> <li>● Core!® Burn.Now™ (DVD±RW)</li> <li>● Core! DVD MovieFactory® (DVD±RW)</li> </ul> <b>- Windows 8 models</b> <ul style="list-style-type: none"> <li>● Lenovo Support</li> <li>● Lenovo Settings</li> <li>● Lenovo Companion</li> <li>● Lenovo Cloud Storage</li> <li>● Norton™ Studio</li> <li>● AccuWeather</li> <li>● Evernote®</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> </ul> <b>- All models</b> <ul style="list-style-type: none"> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Automatic Lock Utility</li> <li>● Lenovo Solution Center</li> <li>● View Management Utility</li> <li>● Norton Internet Security (30 days of virus definitions)</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Skype™</li> </ul>
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook) <i>System automatically clocks down for processors with 1333MHz DDR3 memory controller</i>	
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 2500</b> in processor, uses main memory, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>	
DP dongle	None	
Display	<b>23.0"</b> (580.4mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector	
Light sensor	None	
Multi-touch	None	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off	
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons	
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm	
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable	
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar	
Media reader	<i>Some:</i> 11-in-1 Single Slot SD media reader	
Chipset	<b>Intel Q77 Express Chipset</b>	
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)	
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
ExpressCard	None	
mSATA	One mSATA slot	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®	
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified	
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	150 watts, autosensing, 85% PSU	
Machine	<i>Model(s) with 23" Non multi-touch, Monitor stand:</i> <ul style="list-style-type: none"> <li>● Business black color</li> <li>● 22.4" W X 9.7" D X 17.8" H</li> <li>● 568mm W X 247mm D X 452mm H (including stand)</li> <li>● 25.7 lb (11.7 kg) in maximum configuration</li> <li>● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> <li>● Toolless back cover, stand removal</li> <li>● Toolless disk, optical drive, memory removal</li> <li>● Support VESA mount (100mm)</li> </ul>	<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>● Power-on password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<b>EPEAT™ Gold rating</b> <b>ENERGY STAR® 5.2-compliant</b> TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible <b>GREENGUARD® certified</b> RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M92Z sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
 US models announced October 23 or December 4, 2012  
 US model(s) withdrawn effective November or December 2013



# ThinkCentre M92z (3318) - 23" (TopSeller) - Win 8 - III - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse vPro	Intel Global	Preload	Ann date (mm/dd/yy)	
3318-D2U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	Intel 2230 + BT	None	None	None	None	Monitor	USB	vPro	None	Win8 Pro64	10/23/12
3318-E1U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	Intel 2230 + BT	Media	None	None	None	Monitor	USB	vPro	None	Win8 Pro64	10/23/12
3318-E8U	i7-3770S	4GBx2	2.0M	1TB 7200	HD 4000	Intel 2230 + BT	Media	None	None	None	Monitor	USB	vPro	None	Win8 Pro64	10/23/12
3318-E9U	i5-3570S	4GBx1	2.0M	1TB 7200	HD 2500	Intel 2230 + BT	Media	None	None	None	Monitor	USB	vPro	None	Win8 Pro64	10/23/12
3318-F1U	i5-3570S	4GBx1	2.0M	500G 7200	HD 2500	Intel 2230 + BT	Media	None	None	None	Monitor	USB	vPro	None	Win8 Pro64	10/23/12
3318-F2U	i5-3470T	4GBx1	2.0M	500G 7200	HD 2500	Intel 2230 + BT	Media	None	None	None	Monitor	USB	vPro	None	Win8 Pro64	10/23/12
3318-G1U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	Intel 2230 + BT	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64	10/23/12
3318-J4U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	Intel 6205	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64	01/22/13
3318-J6U	i7-3770S	4GBx1	2.0M	1TB 7200	HD 4000	Intel 2230 + BT	None	None	None	None	Monitor	2.4G	vPro	None	Win7 Pro64	03/05/13
Positioning Processor	<p><i>Premium All-In-One PC for the enterprise</i></p> <p><b>Intel® Core™ i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b></p> <p><b>Intel Core i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b></p> <p><b>Intel Core i5-3570S Processor (4 cores / 4 threads, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b></p> <p><b>Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b></p> <p>Processor in LGA1155 socket</p>											<p><b>Preloaded operating system<sup>20</sup></b></p> <p>Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</p> <p>Some: Windows 8 Pro 64-bit</p> <p><b>Preloaded applications (only some listed)</b></p> <p><b>- Windows 7 models</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• Lenovo® Message Center Plus</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul> <p><b>- Windows 8 models</b></p> <ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Settings</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul> <p><b>- All models</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>				
Implementation																
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)															
Graphics	<p><b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i></p>															
DP dongle	None															
Display	<p><b>23.0"</b> (580.4mm) <b>Full HD 1080p (1920x1080) TFT color</b>, IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector</p>															
Light sensor	None															
Multi-touch	None															
Camera	<p>Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off</p>															
Controls	<p><i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button</p> <p><i>Side:</i> Volume up and down buttons</p>															
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm															
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable															
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar															
Media reader	Some: 11-in-1 Single Slot SD media reader															
Chipset	<b>Intel Q77 Express Chipset</b>															
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)															
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
ExpressCard	None															
mSATA	One mSATA slot															
PCIe Mini Card	One PCI Express® Mini Card slot															
PCIe WLAN	<p>Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2</p> <p>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2</p>															
Bluetooth	Some: Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter															
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®															
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified															
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)															
Security chip	Trusted Platform Module (TPM 1.2-compliant)															
Keyboard	<p>Some: Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo</p> <p>Some: Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black</p>															
Mouse	<p>Some: Enhanced Optical USB Mouse, black, Lenovo logo</p> <p>Some: Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black</p>															
Power supply	150 watts, autosensing, 85% PSU															
Machine	<p><i>Model(s) with 23" Non multi-touch, Monitor stand:</i></p> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 22.4" W X 9.7" D X 17.8" H</li> <li>• 568mm W X 247mm D X 452mm H (including stand)</li> <li>• 25.7 lb (11.7 kg) in maximum configuration</li> <li>• Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> <li>• Toolless back cover, stand removal</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul>											<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>				
Limited Warranty	<p><b>3-years, limited onsite service</b>, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available</p>											<p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 5.2-compliant</p> <p>TCO Certified Edge</p> <p>TUV Green Mark</p> <p>ULE Gold</p> <p>EuP 2013</p> <p>Cisco EnergyWise compatible</p> <p>GREENGUARD® certified</p> <p>RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to O-M92Z sheet;</p> <p>For Lenovo service upgrade options, please go to S-TC sheet</p>				

See footnotes for important warranty information  
 US models announced October 23, 2012, January 22, 2013 or March 5, 2013  
 US model(s) withdrawn effective December 2013

# ThinkCentre M92z (3325) - 23" - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/Mouse	Intel vPro Global	Win7 preload	Ann date (mm/dd/yy)	
3325-A1U	i3-2130	4GBx1	2.0M	500G 7200	HD 2000	11b/g/n	None	None	S P	None	Frame	USB	None	None	Pro 64	06/05/12

●3-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system<sup>20</sup></b>			
Processor	Intel® Core™ i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD 2000 Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											Genuine Windows® 7 Professional 64			
Implementation	Processor in LGA1155 socket											<b>Ready to install applications</b> (only some listed)			
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> <li>● Business-in-a-Box</li> </ul>			
Graphics	Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX® 10.1, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort) @60Hz</i>											<b>Preloaded applications</b> (only some listed)			
DP dongle	None											<ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Automatic Lock Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● RapidBoot HDD Accelerator</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Display	<b>23.0"</b> (580.4mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector														
Light sensor	None														
Multi-touch	None														
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off														
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons														
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm														
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable														
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar														
Media reader	None														
Chipset	<b>Intel Q77 Express Chipset</b>														
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)														
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
ExpressCard	None														
mSATA	One mSATA slot														
PCIe Mini Card	One PCI Express® Mini Card slot														
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2														
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter														
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®											<b>Security</b>			
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified											<ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>● Power-on password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>			
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)											EPEAT™ Gold rating			
Security chip	Trusted Platform Module (TPM 1.2-compliant)											ENERGY STAR® 5.2-compliant			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											TCO Certified Edge			
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											TUV Green Mark			
Power supply	150 watts, autosensing, 85% PSU											ULE Gold			
Machine	<i>Model(s) with 23" Non multi-touch, Frame stand:</i> <ul style="list-style-type: none"> <li>● Business black color</li> <li>● 22.4" W X 3.7" D X 17.6" H</li> <li>● 568mm W X 93mm D X 447mm H (including stand)</li> <li>● 21.5 lb (9.8 kg) in maximum configuration</li> <li>● Toolless back cover, stand removal ,</li> <li>● Toolless disk, optical drive, memory removal</li> <li>● Support VESA mount (100mm)</li> </ul>											EuP 2013			
												Cisco EnergyWise compatible			
												GREENGUARD® certified			
												RoHS-compliant			
												Supports ThinkVantage Technologies			
												For compatible accessories, please go to O-M92Z sheet;			
												For Lenovo service upgrade options, please go to S-TC sheet			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

See footnotes for important warranty information  
US model announced June 5, 2012  
US model(s) withdrawn effective December 2013

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(MTRL1-11) January 2014

# ThinkCentre M92z (3325) - 23" - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro Global	Win7 preload	Ann date (mm/dd/yy)
3325-B3U	i5-3470T	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	S P	None	Frame	USB	vPro	None	Pro 64 06/05/12
3325-B4U	i5-3550S	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	S P	None	Frame	USB	vPro	None	Pro 64 06/05/12
3325-E2U	i5-3470T	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Frame	USB	vPro	None	Pro 64 06/05/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>										<b>Preloaded operating system<sup>20</sup></b>				
Processor	<b>Intel® Core™ i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3550S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										Genuine Windows® 7 Professional 64 <b>Ready to install applications (only some listed)</b> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> <li>• Business-in-a-Box</li> </ul>				
Implementation	Processor in LGA1155 socket										<b>Preloaded applications (only some listed)</b> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)														
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort) @60Hz</i>														
DP dongle	None														
Display	<b>23.0"</b> (580.4mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector														
Light sensor	None														
Multi-touch	None														
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off														
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons														
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm														
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable														
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar														
Media reader	None														
Chipset	<b>Intel Q77 Express Chipset</b>														
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)														
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
ExpressCard	None														
mSATA	One mSATA slot														
PCIe Mini Card	One PCI Express® Mini Card slot														
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2														
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter														
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®														
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	150 watts, autosensing, 85% PSU														
Machine	<i>Model(s) with 23" Non multi-touch, Frame stand:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 22.4" W X 3.7" D X 17.6" H</li> <li>• 568mm W X 93mm D X 447mm H (including stand)</li> <li>• 21.5 lb (9.8 kg) in maximum configuration</li> <li>• Toolless back cover, stand removal ,</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul>										<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>				
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M92Z sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information  
 US models announced June 5, 2012  
 US model(s) withdrawn effective December 2013

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 (MTRL1-12) January 2014



# ThinkCentre M92z (3325) - 23" - III - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Intel Mouse vPro	Win7 Global preload	Ann date (mm/dd/yy)
3325-E1U	i5-3470T	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB vPro	None	Pro 64 06/05/12
3325-D9U	i7-3770S	4GBx1	2.0M	500G 7200	HD 4000	11b/g/n	None	None	None	None	Monitor	USB vPro	None	Pro 64 06/05/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

Positioning Processor	<p><i>Premium All-In-One PC for the enterprise</i>  <b>Intel® Core™ i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache),</b>                      Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics,                      integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology  <b>Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache),</b>                      Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics,                      integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology                      Processor in LGA1155 socket</p>											<p><b>Preloaded operating system<sup>20</sup></b>                      Genuine Windows® 7 Professional 64  <b>Ready to install applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> <li>● Business-in-a-Box</li> </ul>
Implementation												<p><b>Preloaded applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Automatic Lock Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● RapidBoot HDD Accelerator</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											
Graphics	<p><b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i></p>											
DP dongle	None											
Display	<p><b>23.0"</b> (580.4mm) <b>Full HD 1080p (1920x1080) TFT color</b>, IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector</p>											
Light sensor	None											
Multi-touch	None											
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off											
Controls	<p><i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button  <i>Side:</i> Volume up and down buttons</p>											
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm											
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable											
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar											
Media reader	None											
Chipset	<b>Intel Q77 Express Chipset</b>											
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)											
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
ExpressCard	None											
mSATA	One mSATA slot											
PCIe Mini Card	One PCI Express® Mini Card slot											
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2											
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter											
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®											
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified											
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)											
Security chip	Trusted Platform Module (TPM 1.2-compliant)											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, 1000dpi, black, Lenovo logo											
Power supply	150 watts, autosensing, 85% PSU											
Machine	<p><i>Model(s) with 23" Non multi-touch, Monitor stand:</i></p> <ul style="list-style-type: none"> <li>● Business black color</li> <li>● 22.4" W X 9.7" D X 17.8" H</li> <li>● 568mm W X 247mm D X 452mm H (including stand)</li> <li>● 25.7 lb (11.7 kg) in maximum configuration</li> <li>● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> <li>● Toolless back cover, stand removal</li> <li>● Toolless disk, optical drive, memory removal</li> <li>● Support VESA mount (100mm)</li> </ul>											<p><b>EPEAT™ Gold rating</b>  <b>ENERGY STAR® 6.0-compliant</b>                      TCO Certified Edge                      TUV Green Mark                      ULE Gold                      EuP 2013                      Cisco EnergyWise compatible                      GREENGUARD® certified                      RoHS-compliant</p>
Limited Warranty	<p><b>3-years, limited onsite service</b>, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available</p>											<p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to O-M92Z sheet;                      For Lenovo service upgrade options, please go to S-TC sheet</p>



# ThinkCentre M92z (3325) - 23" (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date (mm/dd/yy)
3325-F6U i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	None	Frame	USB	vPro	None	Win8 Pro64	10/23/12
3325-G7U i3-3220	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	None	Frame	USB	None	None	Win8 Pro64	10/23/12
3325-G8U i3-3240	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	None	Frame	USB	None	None	Win8 Pro64	10/23/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system<sup>20</sup></b> Windows® 8 Pro 64-bit				
Processor	<b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											<b>Preloaded applications (only some listed)</b> <ul style="list-style-type: none"> <li>• ThinkVantage® System Update</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• View Management Utility</li> <li>• Lenovo® Support</li> <li>• Lenovo Settings</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Lenovo QuickLaunch</li> <li>• Lenovo Solution Center</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Norton Studio</li> <li>• Intel AppUp®</li> <li>• AccuWeather</li> <li>• PC Device Stage</li> <li>• Evernote™</li> <li>• Skype™</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul>				
Implementation	Processor in LGA1155 socket											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>				
Memory	16GB max, <b>PC3-12800 1600MHZ DDR3</b> , two 204-pin SODIMM sockets (notebook)															
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort) @60Hz</i>															
DP dongle	None															
Display	<b>23.0"</b> (580.4mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector															
Light sensor	None															
Multi-touch	None															
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off															
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons															
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm															
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable															
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar															
Media reader	None															
Chipset	<b>Intel Q77 Express Chipset</b>															
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)															
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
ExpressCard	None															
mSATA	One mSATA slot															
PCIe Mini Card	One PCI Express® Mini Card slot															
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2															
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter															
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®															
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified															
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)															
Security chip	Trusted Platform Module (TPM 1.2-compliant)															
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo															
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo															
Power supply	150 watts, autosensing, 85% PSU															
Machine	<i>Model(s) with 23" Non multi-touch, Frame stand:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 22.4" W X 3.7" D X 17.6" H</li> <li>• 568mm W X 93mm D X 447mm H (including stand)</li> <li>• 21.5 lb (9.8 kg) in maximum configuration</li> <li>• Toolless back cover, stand removal ,</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul>											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant				
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies For compatible accessories, please go to O-M92Z sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information  
 US models announced October 23, 2012  
 US model(s) withdrawn effective December 2013

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 (MTRL1-28) January 2014

# ThinkCentre M92z (3325) - 23" (Win 8) - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>6</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse vPro	Intel Global	Preload	Ann date (mm/dd/yy)
3325-G9U	i3-3220	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	None	Win8 Pro64 10/23/12
3325-H1U	i3-3240	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	None	Win8 Pro64 10/23/12
3325-H2U	i5-3470T	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	vPro	None	Win8 Pro64 10/23/12
3325-H3U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	vPro	None	Win8 Pro64 10/23/12
3325-H4U	i5-3570S	4GBx1	2.0M	1TB 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	vPro	None	Win8 Pro64 10/23/12
3325-H5U	i7-3770S	4GBx2	2.0M	1TB 7200	HD 4000	11b/g/n	Media	None	None	None	Monitor	USB	vPro	None	Win8 Pro64 10/23/12
3325-H8U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 10/23/12
3325-K4U	i5-3470S	4GBx1	2.0M	180G SSD	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 11/20/12
3325-L2U	i3-3220	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	None	Win7 Pro64 06/25/13
Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system<sup>20</sup></b>			
Processor	<b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz) <b>Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz) <b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3570S Processor (4 cores / 4 threads, 3.1GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology											Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit			
Implementation	Processor in LGA1155 socket											<b>Preloaded applications (only some listed) - Windows 7 models</b>			
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>Lenovo® Message Center Plus</li> <li>RapidBoot HDD Accelerator</li> <li>Lenovo SimpleTap</li> <li>Adobe® Reader®</li> <li>Corel® Burn.Now™ (DVD±RW)</li> <li>Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Graphics	<b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>											<ul style="list-style-type: none"> <li>Lenovo Support</li> <li>Lenovo Settings</li> <li>Lenovo Companion</li> <li>Lenovo Cloud Storage</li> <li>Lenovo QuickLaunch</li> <li>Norton™ Studio</li> <li>AccuWeather</li> <li>Evernote®</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> </ul>			
DP dongle	None											<b>- Windows 8 models</b>			
Display	<b>23.0"</b> (580.4mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector											<ul style="list-style-type: none"> <li>ThinkVantage System Update</li> <li>ThinkVantage Automatic Lock Utility</li> <li>Lenovo Solution Center</li> <li>View Management Utility</li> <li>Norton Internet Security (30 days of virus definitions)</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Skype™</li> </ul>			
Light sensor	None											<b>Security</b>			
Multi-touch	None											<ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>Power-on password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>			
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off											<ul style="list-style-type: none"> <li>ENERGY STAR® 6.0-compliant</li> <li>TCO Certified Edge</li> <li>TUV Green Mark</li> <li>ULE Gold</li> <li>EuP 2013</li> <li>Cisco EnergyWise compatible</li> <li>GREENGUARD® certified</li> <li>RoHS-compliant</li> </ul>			
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons											Supports ThinkVantage Technologies			
Disk	<i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide <i>Some:</i> Hard Disk Drive / SATA 6.0Gb/s, 3.5" Wide, 7200 rpm											For compatible accessories, please go to O-M92Z sheet; For Lenovo service upgrade options, please go to S-TC sheet			
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable														
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar														
Media reader	<i>Some:</i> 11-in-1 Single Slot SD media reader														
Chipset	<b>Intel Q77 Express Chipset</b>														
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)														
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
ExpressCard	None														
mSATA	One mSATA slot														
PCIe Mini Card	One PCI Express® Mini Card slot														
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2														
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter														
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®														
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, 1000dpi, black, Lenovo logo														
Power supply	150 watts, autosensing, 85% PSU														
Machine	<i>Model(s) with 23" Non multi-touch, Monitor stand:</i> <ul style="list-style-type: none"> <li>Business black color</li> <li>22.4" W X 9.7" D X 17.8" H</li> <li>568mm W X 247mm D X 452mm H (including stand)</li> <li>25.7 lb (11.7 kg) in maximum configuration</li> <li>Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> <li>Toolless back cover, stand removal</li> <li>Toolless disk, optical drive, memory removal</li> <li>Support VESA mount (100mm)</li> </ul>														
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

See footnotes for important warranty information  
 US models announced October 23 or November 20, 2012 or June 25, 2013  
 US model(s) withdrawn effective December 2013

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 (MTRL1-29) January 2014

# ThinkCentre M92z (3327) - 23" (GMP) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse vPro	Intel Global (G) GMP (P)	Win7 preload (mm/dd/yy)	Ann date (mm/dd/yy)
3327-A4U	i7-3770S	4GBx1	2.0M	500G 7200	HD 4000	11b/g/n	Media	Sensor	None	Switch	Frame	USB vPro	G P	Pro 64	06/05/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system<sup>20</sup></b>		
Processor	Intel® Core™ i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											Genuine Windows® 7 Professional 64		
Implementation												<b>Ready to install applications</b> (only some listed)		
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> <li>● Business-in-a-Box</li> </ul>		
Graphics	Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>											<b>Preloaded applications</b> (only some listed)		
DP dongle	None											<ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Automatic Lock Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● RapidBoot HDD Accelerator</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>		
Display	23.0" (584.4mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector													
Light sensor	Ambient Light Sensor													
Multi-touch	None													
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off													
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons													
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm													
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable													
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar													
Media reader	11-in-1 Single Slot SD media reader													
Chipset	<b>Intel Q77 Express Chipset</b>													
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)													
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
ExpressCard	None													
mSATA	One mSATA slot													
PCIe Mini Card	One PCI Express® Mini Card slot													
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2													
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter											<b>Security</b>		
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®											<ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>● Power-on password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>		
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified													
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	150 watts, autosensing, 85% PSU													
Machine	<i>Model(s) with 23" Non multi-touch, Frame stand:</i> <ul style="list-style-type: none"> <li>● Business black color</li> <li>● 22.4" W X 3.7" D X 17.6" H,</li> <li>● 568mm W X 93mm D X 447mm H (including stand)</li> <li>● 21.5 lb (9.8 kg) in maximum configuration</li> <li>● Toolless back cover, stand removal</li> <li>● Toolless disk, optical drive, memory removal</li> <li>● Support VESA mount (100mm)</li> </ul>											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies		
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to O-M92Z sheet; For Lenovo service upgrade options, please go to S-TC sheet		

See footnotes for important warranty information  
 US model announced June 5, 2012  
 US model(s) withdrawn effective December 2013

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# ThinkCentre M92z (3327) - 23" (GMP) - Win 8 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse vPro	Intel Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
3327-A8U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	Media	Sensor	None	Switch	Frame	USB vPro	G P	Win8 Pro64	10/23/12
3327-B2U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	Media	Sensor	None	None	Frame	USB vPro	G P	Win7 Pro64	10/23/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system<sup>20</sup></b>			
Processor	<b>Intel® Core™ i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket</b>											Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit			
Implementation	None											Some: Windows 8 Pro 64-bit			
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<b>Preloaded applications (only some listed)</b>			
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>											<b>- Windows 7 models</b>			
DP dongle	None											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• Lenovo® Message Center Plus</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Display	<b>23.0"</b> (580.4mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector											<b>- Windows 8 models</b>			
Light sensor	Ambient Light Sensor											<ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Settings</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul>			
Multi-touch	None											<b>- All models</b>			
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off											<ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Skype™</li> </ul>			
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons											<b>Security</b>			
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm											<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable											EPEAT™ Gold rating			
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar											ENERGY STAR® 5.2-compliant			
Media reader	11-in-1 Single Slot SD media reader											TCO Certified Edge			
Chipset	<b>Intel Q77 Express Chipset</b>											TUV Green Mark			
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)											ULE Gold			
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											EuP 2013			
ExpressCard	None											Cisco EnergyWise compatible			
mSATA	One mSATA slot											GREENGUARD® certified			
PCIe Mini Card	One PCI Express® Mini Card slot											RoHS-compliant			
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2											Supports ThinkVantage Technologies			
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter											For compatible accessories, please go to O-M92Z sheet;			
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®											For Lenovo service upgrade options, please go to S-TC sheet			
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	150 watts, autosensing, 85% PSU														
Machine	<i>Model(s) with 23" Non multi-touch, Frame stand:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 22.4" W X 3.7" D X 17.6" H,</li> <li>• 568mm W X 93mm D X 447mm H (including stand)</li> <li>• 21.5 lb (9.8 kg) in maximum configuration</li> <li>• Toolless back cover, stand removal</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul>														
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

See footnotes for important warranty information  
 US models announced October 23, 2012  
 US model(s) withdrawn effective December 2013

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 (MTRL1-30) January 2014



# ThinkCentre M92z (3311) - 23" (Multi-touch) - TS - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/Mouse	Intel vPro Global	Win7 preload	Ann date (mm/dd/yy)
3311-A4U	i5-3470T	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Frame	2.4G vPro	None	Pro 64	06/05/12
3311-C2U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Frame	USB vPro	None	Pro 64	11/20/12
3311-C3U	i3-3220	4GBx1	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Frame	USB	None	Pro 64	12/11/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>										<b>Preloaded operating system<sup>20</sup></b>				
Processor	<p><b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller</p> <p><b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p>										Genuine Windows® 7 Professional 64				
Implementation	Processor in LGA1155 socket										<b>Ready to install applications</b> (only some listed)				
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)										<ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> <li>● Business-in-a-Box</li> </ul>				
Graphics	<b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>										<b>Preloaded applications</b> (only some listed)				
DP dongle	None										<ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Automatic Lock Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● Microsoft Touch Pack</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● RapidBoot HDD Accelerator</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
Display	<b>23.0"</b> (580.4mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS wide viewing angle, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector														
Light sensor	None														
Multi-touch	Multi-touch, 2-point support														
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off														
Controls	<p><i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button</p> <p><i>Side:</i> Volume up and down buttons</p>														
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm														
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable														
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar														
Media reader	None														
Chipset	<b>Intel Q77 Express Chipset</b>														
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)														
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
ExpressCard	None														
mSATA	One mSATA slot														
PCIe Mini Card	One PCI Express® Mini Card slot														
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2										<b>Security</b>				
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter										<ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>● Power-on password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>				
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®														
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	<p><i>Some:</i> Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo</p> <p><i>Some:</i> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black</p>														
Mouse	<p><i>Some:</i> Enhanced Optical USB Mouse, black, Lenovo logo</p> <p><i>Some:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black</p>														
Power supply	150 watts, autosensing, 85% PSU														
Machine	<p><i>Model(s) with 23" multi-touch, Frame stand:</i></p> <ul style="list-style-type: none"> <li>● Business black color</li> <li>● 22.4" W X 3.9" D X 17.6" H,</li> <li>● 568mm W X 100mm D X 447mm H (including stand)</li> <li>● 23.9 lb (10.9 kg) in maximum configuration</li> <li>● Toolless back cover, stand removal</li> <li>● Toolless disk, optical drive, memory removal</li> <li>● Support VESA mount (100mm)</li> </ul>										<p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 5.2-compliant</p> <p>TCO Certified Edge</p> <p>TUV Green Mark</p> <p>ULE Gold</p> <p>EuP 2013</p> <p>Cisco EnergyWise compatible</p> <p>GREENGUARD® certified</p> <p>RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p>				
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										<p>For compatible accessories, please go to O-M92Z sheet;</p> <p>For Lenovo service upgrade options, please go to S-TC sheet</p>				

See footnotes for important warranty information  
 US models announced June 5, November 20, or December 11, 2012  
 US model(s) withdrawn effective December 2013

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 (MTRL1-15) January 2014

# ThinkCentre M92z (3311) - 23" (Multi-touch) - TS - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN / BT	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/Mouse	Intel vPro	Win7 Global preload (mm/dd/yy)	Ann date	
3311-B1U	i5-3470T	4GBx1	2.0M	500G 7200	HD 2500	Intel 2230 + BT	None	None	None	None	Monitor	USB	vPro	None	Pro 64	06/05/12
3311-B2U	i7-3770S	4GBx2	2.0M	1TB 7200	HD 4000	Intel 2230 + BT	Media	None	None	None	Monitor	USB	vPro	None	Pro 64	06/05/12
3311-B3U	i7-3770S	4GBx2	2.0M	1TB 7200	HD 4000	Intel 2230 + BT	Media	None	None	None	Monitor	2.4G	vPro	None	Pro 64	06/05/12
3311-B9U	i3-3220	4GBx1	2.0M	500G 7200	HD 2500	Intel 2230 + BT	None	None	None	None	Monitor	USB	None	None	Pro 64	09/04/12
3311-C1U	i5-3470S	4GBx1	2.0M	180G SSD	HD 2500	Intel 2230 + BT	None	None	None	None	Monitor	USB	vPro	None	Pro 64	11/20/12
3311-C4U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	Intel 6205	None	None	None	None	Monitor	USB	vPro	None	Pro 64	01/22/13

Positioning Processor	<i>Premium All-In-One PC for the enterprise</i> <b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller</b> <b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>	<b>Preloaded operating system<sup>20</sup></b> Genuine Windows® 7 Professional 64 <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> <li>Business-in-a-Box</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Automatic Lock Utility</li> <li>ThinkVantage Power Manager</li> <li>View Management Utility</li> <li>Microsoft Touch Pack</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>RapidBoot HDD Accelerator</li> <li>Lenovo SimpleTap</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™ for Windows</li> <li>Windows Live™ Essentials</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Corel® Burn.Now™ (DVD±RW)</li> <li>Corel DVD MovieFactory® (DVD±RW)</li> </ul>
Implementation	Processor in LGA1155 socket	<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>Power-on password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	
Graphics	<b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort) @60Hz</i>	
DP dongle	None	
Display	<b>23.0"</b> (580.4mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS wide viewing angle, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector	
Light sensor	None	
Multi-touch	Multi-touch, 2-point support	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off	
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons	
Disk	<i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide <i>Some:</i> Hard Disk Drive / SATA 6.0Gb/s, 3.5" Wide, 7200 rpm	
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable	
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar	
Media reader	<i>Some:</i> 11-in-1 Single Slot SD media reader	
Chipset	<b>Intel Q77 Express Chipset</b>	
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)	
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
ExpressCard	None	
mSATA	One mSATA slot	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	<i>Some:</i> 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®	
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified	
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	<i>Some:</i> Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo <i>Some:</i> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black	
Mouse	<i>Some:</i> Enhanced Optical USB Mouse, black, Lenovo logo <i>Some:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black	
Power supply	150 watts, autosensing, 85% PSU	
Machine	<i>Model(s) with 23" multi-touch, Monitor stand:</i> <ul style="list-style-type: none"> <li>Business black color</li> <li>22.4" W X 10.0" D X 17.8" H</li> <li>568mm W X 254mm D X 452mm H (including stand)</li> <li>28.2 lb (12.8 kg) in maximum configuration</li> <li>Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> <li>Toolless back cover, stand removal</li> <li>Toolless disk, optical drive, memory removal</li> <li>Support VESA mount (100mm)</li> </ul>	
Limited Warranty <sup>12</sup>	<b>3-years, limited onsite service<sup>24</sup></b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades <sup>22</sup> available	EPEAT™ Gold rating ENERGY STAR® 5.2-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M92Z sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US models announced June 5, 2012, Sep 4, 2012, Nov 20, 2012, or Jan 22, 2013  
US model(s) withdrawn effective December 2013

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(MTRL1-16) January 2014

# ThinkCentre M92z (3314) - 23" (Multi-touch) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Win7 Global preload	Ann date (mm/dd/yy)
3314-D8U	i7-3770S	4GBx2	2.0M	1TB 7200	HD 4000	Intel 2230 + BT	None	None	None	None	Monitor	USB	vPro	None	Pro 64 06/05/12
3314-D9U	i5-3470T	4GBx1	2.0M	500G 7200	HD 2500	Intel 2230 + BT	None	None	None	None	Monitor	USB	vPro	None	Pro 64 06/05/12
3314-E7U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	Intel 2230 + BT	None	None	None	None	Monitor	USB	vPro	None	Pro 64 08/14/12
3314-E6U	i3-3220	4GBx1	2.0M	500G 7200	HD 2500	Intel 2230 + BT	None	None	None	None	Monitor	USB	None	None	Pro 64 09/04/12
3314-F1U	i5-3470S	4GBx1	2.0M	180G SSD	HD 2500	Intel 2230 + BT	None	None	None	None	Monitor	USB	vPro	None	Pro 64 11/20/12
3314-F2U	i7-3770S	8GBx1	2.0M	1TB 7200	HD 4000	Intel 2230 + BT	None	None	None	None	Monitor	USB	vPro	None	Pro 64 12/11/12
3314-F3U	i5-3470S	4GBx1	2.0M	500G 7200	HD 2500	Intel 6205	None	None	None	None	Monitor	USB	vPro	None	Pro 64 01/22/13

Positioning Processor	<i>Premium All-In-One PC for the enterprise</i>										<b>Preloaded operating system<sup>20</sup></b>				
Implementation	<p><b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller</p> <p><b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i5-3470T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Processor in LGA1155 socket</p>										<p>Genuine Windows® 7 Professional 64</p> <p><b>Ready to install applications (only some listed)</b></p> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> <li>• Business-in-a-Box</li> </ul> <p><b>Preloaded applications (only some listed)</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Microsoft® Touch Pack</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)														
Graphics	<p><b>Intel HD Graphics 2500</b> or <b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort) @60Hz</i></p>														
DP dongle Display	None														
Light sensor	None														
Multi-touch	Multi-touch, 2-point support														
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off														
Controls	<p><i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button</p> <p><i>Side:</i> Volume up and down buttons</p>														
Disk	<i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide														
Optical	<i>Some:</i> Hard Disk Drive / SATA 6.0Gb/s, 3.5" Wide, 7200 rpm														
Onboard SATA	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable														
Media reader	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar														
Chipset	None														
Chipset	<b>Intel Q77 Express Chipset</b>														
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)										<b>Security</b>				
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>				
ExpressCard mSATA	None														
PCle Mini Card	One mSATA slot														
PCle WLAN	One PCI Express® Mini Card slot														
Bluetooth	<i>Some:</i> 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2														
Ethernet	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2														
Audio support	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter														
Intel AMT	One gigabit ethernet port, Intel 82579LM, Wake on LAN®														
Security chip	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified														
Keyboard	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Mouse	Trusted Platform Module (TPM 1.2-compliant)														
Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo										EPEAT™ Gold rating				
Machine	Enhanced Optical USB Mouse, black, Lenovo logo										ENERGY STAR® 5.2-compliant				
	150 watts, autosensing, 85% PSU										TCO Certified Edge				
	<p><i>Model(s) with 23" multi-touch, Monitor stand:</i></p> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 22.4" W X 10.0" D X 17.8" H</li> <li>• 568mm W X 254mm D X 452mm H (including stand)</li> <li>• 28.2 lb (12.8 kg) in maximum configuration</li> <li>• Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> <li>• Toolless back cover, stand removal</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul>										TUV Green Mark				
Limited Warranty <sup>12</sup>	<p><b>3-years, limited onsite service<sup>24</sup></b>, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades<sup>22</sup> available</p>										ULE Gold				
											EuP 2013				
											Cisco EnergyWise compatible				
											GREENGUARD® certified				
											RoHS-compliant				
											Supports ThinkVantage Technologies				
											For compatible accessories, please go to O-M92Z sheet;				
											For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information  
 US models announced Jun 5, Aug 14, Sep 4, No 20, Dec 11, 2012, or Jan 22, 2013  
 US model(s) withdrawn effective December 2013

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# ThinkCentre M92z (3329) - 23" (Multi-touch) - GMP - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Intel vPro	Global (G) GMP (P)	Win7 preload (mm/dd/yy)	Ann date
3329-A4U	i7-3770S	4GBx1	2.0M	500G 7200	HD 4000	11b/g/n	Media	Sensor	None	Switch	Frame	USB vPro	G P	Pro 64	06/05/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system<sup>20</sup></b>			
Processor	<b>Intel® Core™ i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket</b>											Genuine Windows® 7 Professional 64			
Implementation	Processor in LGA1155 socket											<b>Ready to install applications</b> (only some listed)			
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> <li>● Business-in-a-Box</li> </ul>			
Graphics	<b>Intel HD Graphics 4000</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>											<b>Preloaded applications</b> (only some listed)			
DP dongle	None											<ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Automatic Lock Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● Microsoft Touch Pack</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● RapidBoot HDD Accelerator</li> <li>● Lenovo SimpleTap</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™ for Windows</li> <li>● Windows Live™ Essentials</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Corel® Burn.Now™ (DVD±RW)</li> <li>● Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Display	<b>23.0"</b> (580.4mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS wide viewing angle, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector														
Light sensor	Ambient Light Sensor														
Multi-touch	Multi-touch, 2-point support														
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off														
Controls	<i>Front:</i> Microphone mute, speaker mute, monitor mode, OSD menu, and power button <i>Side:</i> Volume up and down buttons														
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm														
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable														
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar														
Media reader	11-in-1 Single Slot SD media reader														
Chipset	<b>Intel Q77 Express Chipset</b>														
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)														
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
ExpressCard	None														
mSATA	One mSATA slot														
PCIe Mini Card	One PCI Express® Mini Card slot														
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2														
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter														
Ethernet	One gigabit ethernet port, Intel 82579LM, Wake on LAN®														
Audio support	High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified														
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	150 watts, autosensing, 85% PSU														
Machine	<i>Model(s) with 23" multi-touch, Frame stand:</i> <ul style="list-style-type: none"> <li>● Business black color</li> <li>● 22.4" W X 3.9" D X 17.6" H,</li> <li>● 568mm W X 100mm D X 447mm H (including stand)</li> <li>● 23.9 lb (10.9 kg) in maximum configuration</li> <li>● Toolless back cover, stand removal</li> <li>● Toolless disk, optical drive, memory removal</li> <li>● Support VESA mount (100mm)</li> </ul>											<ul style="list-style-type: none"> <li>● <b>Security</b></li> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>● Power-on password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>			
												EPEAT™ Gold rating			
												ENERGY STAR® 5.2-compliant			
												TCO Certified Edge			
												TUV Green Mark			
												ULE Gold			
												EuP 2013			
												Cisco EnergyWise compatible			
												GREENGUARD® certified			
												RoHS-compliant			
												Supports ThinkVantage Technologies			
												For compatible accessories, please go to O-M92Z sheet;			
												For Lenovo service upgrade options, please go to S-TC sheet			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

See footnotes for important warranty information  
 US model announced June 5, 2012  
 US model(s) withdrawn effective December 2013

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 (MTRL1-18) January 2014

## Memory

2GB PC3-12800 DDR3 SODIMM	0A65722	ann 06/05/12
4GB PC3-12800 DDR3 SODIMM	0A65723	ann 06/05/12
8GB PC3-12800 DDR3 SODIMM	0A65724	ann 06/05/12

More information at

[www.lenovo.com/support/desktopmemorycompatibility](http://www.lenovo.com/support/desktopmemorycompatibility)

## Storage and removable storage

500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	ann 11/06/07
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	ann 08/19/08
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 3.0 Secure 500GB Hard Drive	0A65619	ann 11/29/11
USB 3.0 Secure 750GB Hard Drive	0A65616	ann 11/29/11
USB 3.0 Secure 1TB Hard Drive	0A65621	ann 08/28/12
Slim USB Portable DVD Burner	0A33988	ann 06/14/11

## Keyboard

Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Ultraslim Plus Wireless Keyboard and Mouse <sup>52</sup>	0A34032	ann 04/05/11
ThinkPad <sup>®</sup> USB Keyboard with TrackPoint	55Y9003	ann 08/18/09
Lenovo <sup>®</sup> USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09

<sup>52</sup> Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at [www.lenovo.com/support/keyboards](http://www.lenovo.com/support/keyboards)

## Mouse

Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo ScrollPoint <sup>®</sup> Mouse (USB, Optical)	31P7405	ann 08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann 06/04/02
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse <sup>52</sup>	0A36188	ann 12/20/11
ThinkPad USB Laser Mouse	57Y4635	ann 12/15/09

More information at [www.lenovo.com/support/mice](http://www.lenovo.com/support/mice)

## Modem

USB 2.0 Lenovo Modem	43R1814	ann 02/26/08
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## Multimedia

ThinkPad In-Ear Headphones with mic	57Y4488	ann 01/07/10
Lenovo Mini Speakers M220	55Y2033	ann 01/07/10
Lenovo Speakers M0520 (black)	57Y6360	ann 02/08/11
Lenovo Speakers M0520 (red)	57Y6361	ann 02/08/11
Lenovo Headset P550	55Y2065	
Lenovo Headset P950 (black)	57Y6605	ann 02/08/11

## Security

Kensington <sup>®</sup> MicroSaver <sup>®</sup> Cable Lock <sup>56</sup>	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock <sup>56</sup>	45K1620	ann 09/30/08
Lenovo Security Cable Lock <sup>56</sup>	57Y4303	ann 08/24/10
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06

<sup>56</sup> Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

## Monitors

ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D) <sup>69</sup>	2448MB6	ann 09/13/11
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	ann 10/20/09
ThinkVision LT2323p Wide 23" (VGA, DP, DVI-D) <sup>69</sup>	3024HC1	ann 05/01/12

<sup>69</sup> DisplayPort cable is not included; use optional DisplayPort to DisplayPort Monitor Cable (0A36537).

More information at [www.lenovo.com/support/monitors](http://www.lenovo.com/support/monitors)

## Monitor Accessories<sup>46</sup>

Lenovo USB 3.0 to DVI/VGA Monitor Adapter	0B47072	ann 08/14/12
DisplayPort <sup>™</sup> to Single-link DVI-D Cable	45J7915	ann 08/05/08
DisplayPort to VGA Monitor Cable	57Y4393	ann 08/04/09
DisplayPort to DisplayPort Monitor Cable	0A36537	ann 09/13/11
Kensington MicroSaver Cable Lock <sup>56</sup>	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock <sup>56</sup>	45K1620	ann 09/30/08
Lenovo Security Cable Lock <sup>56</sup>	57Y4303	ann 08/24/10

<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

For more information on accessories:

[www.lenovo.com/accessories](http://www.lenovo.com/accessories)

Purchase Lenovo accessories

[www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)

Product specifications on Lenovo Support

[www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)

Option Compatibility Matrix (OCM) and accessory brochures

[www.lenovoquickpick.com](http://www.lenovoquickpick.com)

An Options Compatibility Configurator for Lenovo systems



Lenovo ThinkCentre Edge 72 Small and  
Lenovo ThinkCentre Edge 72 Tower



Lenovo ThinkCentre Edge 72 Small  
with Dual Lenovo ThinkVision Monitors



Lenovo ThinkCentre Edge 72 Small



Lenovo ThinkCentre Edge 72 Small



Lenovo ThinkCentre Edge 72 Tower



Lenovo ThinkCentre Edge 72 Tower

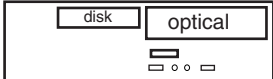


# ThinkCentre Edge 72 Small (3493) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Blue-tooth	Media reader	Parallel port	Serial port	Floor stand	Win7 Global preloaded	Ann date (mm/dd/yy)
3493-A7U	3x2	G630	2GBx1 1600MHz	250G 7200	DVD±RW	HD 7350	None	None	None	Parallel	Serial	Stand	None Pro 64	06/19/12
3493-A8U	3x2	i3-2120	4GBx1 1600MHz	500G 7200	DVD±RW	HD 7350	None	None	None	Parallel	Serial	Stand	None Pro 64	06/19/12
3493-EKU	3x2	G640	4GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	None	None	None	Serial	Stand	None Pro 64	07/10/12
3493-F8U	3x2	G640	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	None	None	None	Serial	Stand	None Pro 64	07/17/12
3493-BNU	3x2	G640	2GBx1 1600MHz	250G 7200	DVD±RW	Intel HD	None	None	None	Parallel	Serial	Stand	None Pro 64	08/14/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	Stylish design, reliability, and productivity for small/medium businesses											<b>Preloaded operating system</b>		
Processor	<b>Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Pentium G640 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											Genuine Windows® 7 Professional 64		
Implementation												<b>Ready to install applications</b> (only some listed)		
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>		
Graphics	Some: <b>Intel HD Graphics</b> in processor, uses main memory, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i> Some: <b>AMD Radeon™ HD 7350</b> , DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort™, 30 watts; <i>Maximum resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz;</i> works along with Intel HD Graphics to support up to four independent monitors											<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>		
DP dongle	None													
Disk	SATA 3.0Gb/s 7200 rpm													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset													
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar													
eSATA port	None													
Media reader	None													
Chipset	<b>Intel H61 Express Chipset</b>													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DVI-D													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)													
Internal connector	Three USB 2.0 planar conn (1 used; two open for additional USB devices)													
PCIe WLAN	None													
Bluetooth	None													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®													
Intel AMT	None													
Modem	None													
Security chip	None													
Keyboard	Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Floor Stand	System floor stand for vertical orientation													
Power supply	180 watts, universal, manual switch													
Machine	<ul style="list-style-type: none"> <li>• Glossy black bezel; metal case</li> <li>• 13.2" W X 15.0" D X 3.9" H</li> <li>• 336mm W X 382mm D X 101mm H</li> <li>• 13.2 lb (6.0 kg) in maximum configuration</li> <li>• Highlighted optical drive button for easy access</li> </ul>													
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 1.5", .35" high, access, opt reader* *bay only available on models with media reader installed													
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1													
Limited Warranty <sup>1</sup>	<b>1-year, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													
												<b>Security</b> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> </ul>		
												RoHS-compliant		
												Supports ThinkVantage Technologies		
												For compatible accessories, please go to O-Edge72 sheet; For Lenovo service upgrade options, please go to S-TC sheet		

See footnotes for important warranty information  
 US model(s) announced June 19, July 10, July 17, or August 14, 2012  
 US models withdrawn effective May 2014

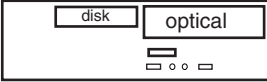
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# ThinkCentre Edge 72 Small (3493) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Blue-tooth	Media reader	Parallel port	Serial port	Floor stand	Win7 Global preload	Ann date (mm/dd/yy)
3493-A6U	3x2	i5-3550S	4GBx1 1600MHz	1TB 7200	DVD±RW	HD 7350	None	None	None	Parallel	Serial	Stand	None Pro 64	06/19/12
3493-B7U	3x2	i5-3470S	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	None	None	None	None	Stand	None Pro 64	06/19/12
3493-EJU	3x2	i5-3470S	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	None	None	None	Serial	Stand	None Pro 64	07/10/12
3493-BKU	3x2	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	None	None	Parallel	None	Stand	None Pro 64	09/04/12
3493-BPU	3x2	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	None	None	Parallel	Serial	Stand	None Pro 64	09/04/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	<i>Stylish design, reliability, and productivity for small/medium businesses</i>											<b>Preloaded operating system</b>		
Processor	<b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache)</b> , Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3550S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache)</b> , Turbo Boost 2.0 (3.7GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											Genuine Windows® 7 Professional 64		
Implementation	Processor in LGA1155 socket											<b>Ready to install applications</b> (only some listed)		
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>		
Graphics	<i>Some: Intel HD Graphics 2500</i> in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i> <i>Some: AMD Radeon™ HD 7350</i> , DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort™, 30 watts; <i>Maximum resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz;</i> works along with Intel HD Graphics to support up to four independent monitors											<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>		
DP dongle	None													
Disk	SATA 3.0Gb/s 7200 rpm													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset													
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar													
eSATA port	None													
Media reader	None													
Chipset	<b>Intel H61 Express Chipset</b>													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DVI-D													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)													
Internal connector	Three USB 2.0 planar conn (1 used; two open for additional USB devices)													
PCIe WLAN	None													
Bluetooth	None													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®													
Intel AMT	None													
Modem	None													
Security chip	None													
Keyboard	Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Floor Stand	System floor stand for vertical orientation													
Power supply	180 watts, universal, manual switch													
Machine	<ul style="list-style-type: none"> <li>• Glossy black bezel; metal case</li> <li>• 13.2" W X 15.0" D X 3.9" H</li> <li>• 336mm W X 382mm D X 101mm H</li> <li>• 13.2 lb (6.0 kg) in maximum configuration</li> <li>• Highlighted optical drive button for easy access</li> </ul>													
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 1.5", .35" high, access, opt reader* *bay only available on models with media reader installed													
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1													
Limited Warranty <sup>1</sup>	1-year, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											<b>Security</b> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> </ul> RoHS-compliant Supports ThinkVantage Technologies		
												For compatible accessories, please go to O-Edge72 sheet; For Lenovo service upgrade options, please go to S-TC sheet		

See footnotes for important warranty information  
 US model(s) announced June 19, July 10, or September 4, 2012  
 US models withdrawn effective May 2014


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# ThinkCentre Edge 72 Small (3493) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	Graphics	PCIe Mini Card	Blue-tooth	Media reader	Parallel port	Serial port	Floor stand	Global	Preload	Ann date (mm/dd/yy)
3493-DFU	3x2	G640	4GBx1 1600MHz	500G 7200	DVD	Intel HD	None	None	None	None	Serial	Stand	None	Win7 Pro64	10/23/12
3493-DGU	3x2	G640	4GBx1 1600MHz	500G 7200	DVD	Intel HD	None	None	None	Parallel	Serial	Stand	None	Win7 Pro64	10/23/12
3493-GPU	3x2	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	None	None	Parallel	Serial	Stand	None	Win7 Pro64	11/20/12
3493-GRU	3x2	G645	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	None	None	Parallel	Serial	Stand	None	Win7 Pro64	11/20/12
3493-H5U	3x2	G2120	4GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	None	None	Parallel	Serial	Stand	None	Win7 Pro64	12/25/12
3493-HAU	3x2	G2020	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	None	None	Parallel	Serial	Stand	None	Win7 Pro64	02/19/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	<i>Stylish design, reliability, and productivity for small/medium businesses</i>											<b>Preloaded operating system</b>			
Processor	<p><b>Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Pentium G645 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Pentium G2020 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Pentium G2120 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p><b>Intel Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller</p>											<p>Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</p> <p><b>Ready to install applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <p><b>Preloaded applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• View Management Utility</li> <li>• Lenovo® Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>			
Implementation	Processor in LGA1155 socket														
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets <i>System automatically clocks down for processors with 1066MHz DDR3 memory controller</i>														
Graphics	<b>Intel HD Graphics or Intel HD Graphics 2500</b> in processor, uses main memory, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>														
DP dongle	None														
Disk	SATA 3.0Gb/s 7200 rpm														
Optical	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive <i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset														
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel H61 Express Chipset</b>														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DVI-D														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)														
Internal connector	Three USB 2.0 planar conn (1 used; two open for additional USB devices)														
PCIe WLAN	None														
Bluetooth	None														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®														
Intel AMT	None														
Modem	None														
Security chip	None														
Keyboard	Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Floor Stand	System floor stand for vertical orientation														
Power supply	180 watts, universal, manual switch														
Machine	<ul style="list-style-type: none"> <li>• Glossy black bezel; metal case</li> <li>• 13.2" W X 15.0" D X 3.9" H</li> <li>• 336mm W X 382mm D X 101mm H</li> <li>• 13.2 lb (6.0 kg) in maximum configuration</li> <li>• Highlighted optical drive button for easy access</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 1.5", .35" high, access, opt reader* *bay only available on models with media reader installed														
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1											<b>Security</b> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> </ul>			
Limited Warranty <sup>1</sup>	<b>1-year, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											<b>RoHS-compliant</b> Supports ThinkVantage Technologies For compatible accessories, please go to O-Edge72 sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information  
 US model(s) announced Oct 23, 2012, Nov 20, 2012, Dec 25, 2012, or Feb 19, 2013  
 US models withdrawn effective May 2014

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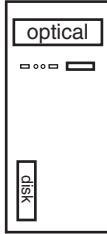


# ThinkCentre Edge 72 Tower (3484) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	PCIe Mini Card WLAN	Blue-tooth	Media reader	Parallel port	Serial port	Global	Win7 preload	Ann date (mm/dd/yy)
3484-A7U	3x2	i3-2130	4GBx1 1600MHz	500G 7200	None	DVD±RW	HD 7350	None	None	None	Parallel	Serial	None	Pro 64	06/19/12
3484-A8U	3x2	i3-2120	4GBx1 1600MHz	500G 7200	None	DVD±RW	HD 7350	None	None	None	Parallel	Serial	None	Pro 64	06/19/12
3484-A9U	3x2	G630	2GBx1 1600MHz	250G 7200	None	DVD±RW	HD 7350	None	None	None	Parallel	Serial	None	Pro 64	06/19/12
3484-FDU	3x2	G640	4GBx1 1600MHz	500G 7200	None	DVD±RW	Intel HD	None	None	None	None	Serial	None	Pro 64	07/10/12
3484-GAU	3x2	G640	2GBx1 1600MHz	500G 7200	None	DVD±RW	Intel HD	None	None	None	None	Serial	None	Pro 64	07/17/12
3484-BFU	3x2	G640	2GBx1 1600MHz	250G 7200	None	DVD±RW	Intel HD	None	None	None	Parallel	Serial	None	Pro 64	08/14/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	Stylish design, reliability, and productivity for small/medium businesses										<b>Preloaded operating system</b>				
Processor	<b>Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Pentium G640 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache)</b> , integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology										Genuine Windows® 7 Professional 64  <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
Implementation	Processor in LGA1155 socket														
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets														
Graphics	Some: <b>Intel HD Graphics</b> in processor, uses main memory, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display; Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz Some: <b>AMD Radeon™ HD 7350</b> , DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort™, 30 watts; Maximum resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors														
DP dongle	None														
Disk	SATA 3.0Gb/s 7200 rpm														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset														
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel H61 Express Chipset</b>														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DVI-D														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)														
Internal connector	Three USB 2.0 planar conn (1 used; two open for additional USB devices)														
PCIe WLAN	None														
Bluetooth	None														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®														
Intel AMT	None														
Modem	None														
Security chip	None														
Keyboard	Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	180 watts, universal, manual switch														
Machine	<ul style="list-style-type: none"> <li>• Glossy black bezel; metal case</li> <li>• 6.3" W X 15.7" D X 15.6" H (with handle)</li> <li>• 160mm W X 399mm D X 397mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Ergonomic rubberized handle</li> <li>• Highlighted optical drive button for easy access</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 1.5", .35" high, access, opt reader* Bay 3: 3.5", 1" high, no access, std disk *bay only available on models with media reader installed														
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1										<b>Security</b> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> </ul> RoHS-compliant Supports ThinkVantage Technologies				
Limited Warranty <sup>1</sup>	<b>1-year, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										For compatible accessories, please go to O-Edge72 sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information  
 US model(s) announced June 19, July 10, July 17, or August 14, 2012  
 US models withdrawn effective May 2014

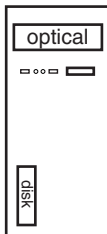
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 (TAPI1-3) May 2014

# ThinkCentre Edge 72 Tower (3484) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	PCIe Mini Card WLAN	Blue-tooth	Media reader	Parallel port	Serial port	Global	Win7 preload	Ann date (mm/dd/yy)
3484-A6U	3x2	i5-3550S	4GBx1 1600MHz	1TB 7200	None	DVD±RW	HD 7350	None	None	None	Parallel	Serial	None	Pro 64	06/19/12
3484-C1U	3x2	i5-3470S	4GBx1 1600MHz	500G 7200	None	DVD±RW	HD 2500	None	None	None	None	None	None	Pro 64	06/19/12
3484-FCU	3x2	i5-3470S	4GBx1 1600MHz	500G 7200	None	DVD±RW	HD 2500	None	None	None	None	Serial	None	Pro 64	07/10/12
3484-BGU	3x2	i3-3220	4GBx1 1600MHz	500G 7200	None	DVD±RW	HD 2500	None	None	None	Parallel	Serial	None	Pro 64	09/04/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	<i>Stylish design, reliability, and productivity for small/medium businesses</i>											<b>Preloaded operating system</b>		
Processor	<b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache)</b> , Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3550S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache)</b> , Turbo Boost 2.0 (3.7GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											Genuine Windows® 7 Professional 64  <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Communication Utility</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>		
Implementation														
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets													
Graphics	<i>Some:</i> <b>Intel HD Graphics 2500</b> in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz <i>Some:</i> <b>AMD Radeon™ HD 7350</b> , DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort™, 30 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors													
DP dongle	None													
Disk	SATA 3.0Gb/s 7200 rpm													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset													
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar													
eSATA port	None													
Media reader	None													
Chipset	<b>Intel H61 Express Chipset</b>													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DVI-D													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)													
Internal connector	Three USB 2.0 planar conn (1 used; two open for additional USB devices)													
PCIe WLAN	None													
Bluetooth	None													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®													
Intel AMT	None													
Modem	None													
Security chip	None													
Keyboard	Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	180 watts, universal, manual switch													
Machine	<ul style="list-style-type: none"> <li>• Glossy black bezel; metal case</li> <li>• 6.3" W X 15.7" D X 15.6" H (with handle)</li> <li>• 160mm W X 399mm D X 397mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Ergonomic rubberized handle</li> <li>• Highlighted optical drive button for easy access</li> </ul>													
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 1.5", .35" high, access, opt reader* Bay 3: 3.5", 1" high, no access, std disk *bay only available on models with media reader installed													
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1													
Limited Warranty <sup>1</sup>	<b>1-year, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											<b>Security</b> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> </ul> RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-Edge72 sheet; For Lenovo service upgrade options, please go to S-TC sheet		

See footnotes for important warranty information  
 US model(s) announced June 19, July 10, or September 4, 2012  
 US models withdrawn effective May 2014

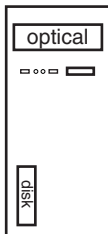
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 (TAPI1-4) May 2014

# ThinkCentre Edge 72 Tower (3484) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>®</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	PCIe Graphics	Mini Card WLAN	Blue-tooth	Media reader	Parallel port	Serial port	Global	Preload	Ann date (mm/dd/yy)
3484-DEU	3x2	G640	4GBx1 1600MHz	500G 7200	None	DVD	Intel HD	None	None	None	Parallel	Serial	None	Win7 Pro64	10/23/12
3484-DFU	3x2	i3-3220	4GBx1 1600MHz	500G 7200	None	DVD	HD 2500	None	None	None	Parallel	Serial	None	Win7 Pro64	10/23/12
3484-HNU	3x2	G645	2GBx1 1600MHz	500G 7200	None	DVD±RW	Intel HD	None	None	None	Parallel	Serial	None	Win7 Pro64	11/20/12
3484-HPU	3x2	i3-3220	4GBx1 1600MHz	500G 7200	None	DVD±RW	HD 2500	None	None	None	Parallel	Serial	None	Win7 Pro64	11/20/12
3484-JJU	3x2	G2120	4GBx1 1600MHz	500G 7200	None	DVD±RW	Intel HD	None	None	None	Parallel	Serial	None	Win7 Pro64	12/25/12
3484-JMU	3x2	G2020	2GBx1 1600MHz	500G 7200	None	DVD±RW	Intel HD	None	None	None	Parallel	Serial	None	Win7 Pro64	02/19/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	Stylish design, reliability, and productivity for small/medium businesses											<b>Preloaded operating system</b>		
Processor	<b>Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Pentium G645 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Pentium G2020 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Pentium G2120 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller											Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <b>Ready to install applications</b> (only some listed) • Rescue and Recovery™ • Password Manager <b>Preloaded applications</b> (only some listed) • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Communication Utility • View Management Utility • Lenovo® Solution Center • Lenovo Message Center Plus • Lenovo SimpleTap • Norton™ Internet Security (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Windows Live™ Essentials • Microsoft® Office preloaded; purchase a product key to activate • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)		
Implementation	Processor in LGA1155 socket													
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets <i>System automatically clocks down for processors with 1066MHz DDR3 memory controller</i>													
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 2500</b> in processor, uses main memory, one VGA, one DVI-D, supports dual independent display; <i>Maximum resolution: 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz</i>													
DP dongle	None													
Disk	SATA 3.0Gb/s 7200 rpm													
Optical	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive <i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset													
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar													
eSATA port	None													
Media reader	None													
Chipset	<b>Intel H61 Express Chipset</b>													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DVI-D													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)													
Internal connector	Three USB 2.0 planar conn (1 used; two open for additional USB devices)													
PCIe WLAN	None													
Bluetooth	None													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®													
Intel AMT	None													
Modem	None													
Security chip	None													
Keyboard	Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo											<b>Security</b>		
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											• One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement		
Power supply	180 watts, universal, manual switch													
Machine	<ul style="list-style-type: none"> <li>• Glossy black bezel; metal case</li> <li>• 6.3" W X 15.7" D X 15.6" H (with handle)</li> <li>• 160mm W X 399mm D X 397mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Ergonomic rubberized handle</li> <li>• Highlighted optical drive button for easy access</li> </ul>													
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 1.5", .35" high, access, opt reader* Bay 3: 3.5", 1" high, no access, std disk *bay only available on models with media reader installed													
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1											RoHS-compliant		
Limited Warranty <sup>1</sup>	<b>1-year, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies For compatible accessories, please go to O-Edge72 sheet; For Lenovo service upgrade options, please go to S-TC sheet		

See footnotes for important warranty information  
 US model(s) announced Oct 23, 2012, Nov 20, 2012, Dec 25, 2012, or Feb 19, 2013  
 US models withdrawn effective May 2014

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ThinkCentre Edge 92z with Frame Stand



ThinkCentre Edge 92z with Frame Stand



ThinkCentre Edge 92z with Frame Stand



Handle



ThinkCentre Edge 92z with Frame Stand



ThinkCentre Edge 92z with Frame Stand

# ThinkCentre Edge 92z (3396) - TopSeller - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Camera (mega-pixel)	Disk SATA GB rpm	mSATA SSD	SATA optical	Graphics	PCIe Mini Card WLAN / BT	Media reader	Key-board/Mouse	Global	Win7 preload	Ann date (mm/dd/yy)
3396-A3U	i5-3470S	4GBx1	2.0M	1TB 7200	None	DVD±RW	HD 2500	Intel 105	None	2.4G	None	Pro 64	07/03/12
3396-B2U	i5-3470S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 2500	Intel 2230 + BT	Media	USB	None	Pro 64	07/03/12
3396-B3U	i7-3770S	4GBx2	2.0M	1TB 7200	None	DVD±RW	HD 4000	Intel 2230 + BT	Media	USB	None	Pro 64	07/03/12
3396-B4U	i7-3770S	4GBx2	2.0M	1TB 7200	None	DVD±RW	HD 4000	Intel 2230 + BT	Media	2.4G	None	Pro 64	07/03/12
3396-B5U	i5-3470S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 2500	Intel 2230 + BT	Media	2.4G	None	Pro 64	07/03/12
3396-B6U	i5-3470S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 2500	Intel 2230 + BT	Media	2.4G	None	Prem 64	07/03/12
3396-BUJ	i3-3220	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 2500	Intel 2230 + BT	Media	USB	None	Pro 64	09/04/12
3396-C3U	G870	4GBx1	2.0M	500G 7200	None	DVD±RW	Intel HD	Intel 2230 + BT	None	USB	None	Pro 64	09/11/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	Stylish All-In-One PC for small/medium businesses										
Processor	<b>Intel® Pentium® G870 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache)</b> , Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache)</b> , Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										
Implementation	Processor in LGA1155 socket										
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)										
Graphics	<b>Intel HD Graphics, Intel HD Graphics 2500, or Intel HD Graphics 4000</b> in processor, use main memory, external digital monitor support via HDMI, supports dual independent display; Maximum resolution: 1920x1200 (HDMI)@60Hz										
Widescreen display	<b>21.5"</b> (545.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , infinity display, IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio; works as standalone monitor via HDMI-in connector										
Multi-touch	None										
Camera	Camera on top of screen, 2.0-megapixel, Full HD 1080p, fixed focus, integrated digital MIC array with stereo, LED indicator										
Controls	Front facing buttons for brightness up, brightness down, power on/off, and Video in										
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm										
mSATA™ SSD	None										
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable										
Media reader	Some: 7-in-1 Single Slot SD media reader										
Chipset	<b>Intel B75 Express Chipset</b>										
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in										
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
PCIe Mini Card	Two PCI Express® Mini Card slots										
PCIe WLAN <sup>†</sup>	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® wireless-N 105, 1x1 Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2										
Bluetooth	Some: Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter										
PCIe mSATA	One Mini PCIe mSATA slot										
Ethernet	One gigabit ethernet port, Intel 82579LM										
Audio support	High Definition (HD) Audio, Realtek® ALC662 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync® certified										
Intel AMT	None										
Security chip	None										
Keyboard	Some: Lenovo® Slim New F5 USB Keyboard (USB connector), black Some: Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black										
Mouse	Some: Enhanced Optical USB Mouse, black Some: Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black										
Power supply	150 watts, autosenesing, 85% PSU										
Machine	Model(s) with Frame stand: <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 21.5" W X 3.2" D X 16.3" H</li> <li>• 545mm W X 81mm D X 414mm H (with feet)</li> <li>• 18.5 lb (8.4 kg) in maximum configuration</li> <li>• Handle in rear, removable feet</li> <li>• Support VESA mount (100mm)</li> </ul>										
Limited Warranty <sup>1</sup>	<b>1-year, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										
	<b>Preloaded operating system</b> Some: Genuine Windows® 7 Professional 64 Some: Genuine Windows 7 Home Premium 64  <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> <li>• Business-in-a-Box</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Intel Small Business Advantage</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Evernote®</li> <li>• Symantec™ VIP</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> </ul>										
	ENERGY STAR® 5.2-compliant										
	RoHS-compliant										
	Supports ThinkVantage Technologies										
	For compatible accessories, please go to O-Edge92Z sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet										

See footnotes for important warranty information  
 US model(s) announced July 3, September 4, or September 11, 2012  
 US model(s) withdrawn effective November 2013 or January 2014

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 (TROY1-1) January 2014

# ThinkCentre Edge 92z (3396) - TopSeller (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Camera (mega-pixel)	Disk SATA GB rpm	mSATA SSD	SATA optical	Graphics	PCIe Mini Card WLAN / BT	Media reader	Key-board/Mouse	Global	Preload	Ann date (mm/dd/yy)
3396-BPU	i5-3470S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 2500	Intel 2230 + BT	None	USB	None	Win8 Pro64	10/23/12
3396-BQU	i7-3770S	4GBx2	2.0M	500G 7200	None	DVD±RW	HD 4000	Intel 2230 + BT	None	USB	None	Win8 Pro64	10/23/12
3396-BRU	i7-3770S	4GBx2	2.0M	1TB 7200	None	DVD±RW	HD 4000	Intel 2230 + BT	Media	2.4G	None	Win8 Pro64	10/23/12
3396-BVU	i3-3220	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 2500	Intel 2230 + BT	Media	USB	None	Win8 Pro64	10/23/12
3396-BTU	i5-3470S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 2500	Intel 2230 + BT	Media	2.4G	None	Win8 Pro64	10/23/12
3396-C6U	i5-3470S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 2500	Intel 2230 + BT	None	USB	None	Win7 Pro64	10/23/12
3396-C7U	i3-3220	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 2500	Intel 2230 + BT	None	USB	None	Win7 Pro64	10/23/12
3396-CMU	G2120	4GBx1	2.0M	500G 7200	None	DVD±RW	Intel HD	Intel 105	Media	USB	None	Win7 Pro64	12/04/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	<i>Stylish All-In-One PC for small/medium businesses</i>										
Processor	<b>Intel® Pentium® G2120 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache)</b> , Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache)</b> , Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										
Implementation											
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)										
Graphics	<b>Intel HD Graphics / 2500 / 4000</b> in processor, use main memory, external digital monitor support via HDMI, supports dual independent display; <i>Maximum resolution: 1920x1200 (HDMI)@60Hz</i> <b>21.5"</b> (545.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , infinity display, IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio; works as standalone monitor via HDMI-in connector										
Widescreen display											
Multi-touch	None										
Camera	Camera on top of screen, 2.0-megapixel, Full HD 1080p, fixed focus, integrated digital MIC array with stereo, LED indicator										
Controls	Front facing buttons for brightness up, brightness down, power on/off, and Video in										
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm										
mSATA™ SSD	None										
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable										
Media reader	<i>Some: 7-in-1 Single Slot SD media reader</i>										
Chipset	<b>Intel B75 Express Chipset</b>										
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in										
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
PCIe Mini Card	Two PCI Express® Mini Card slots										
PCIe WLAN <sup>†</sup>	<i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® wireless-N 105, 1x1</i> <i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2</i>										
Bluetooth	<i>Some: Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter</i>										
PCIe mSATA	One Mini PCIe mSATA slot										
Ethernet	One gigabit ethernet port, Intel 82579LM										
Audio support	High Definition (HD) Audio, Realtek® ALC662 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync® certified										
Intel AMT	None										
Security chip	None										
Keyboard	<i>Some: Lenovo® Slim New F5 USB Keyboard (USB connector), black</i>										
Mouse	<i>Some: Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black</i>										
Power supply	<i>Some: Enhanced Optical USB Mouse, black</i> <i>Some: Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black</i> 150 watts, autosensing, 85% PSU										
Machine	<b>Model(s) with Frame stand:</b> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 21.5" W X 3.2" D X 16.3" H</li> <li>• 545mm W X 81mm D X 414mm H (with feet)</li> <li>• 18.5 lb (8.4 kg) in maximum configuration</li> <li>• Handle in rear, removable feet</li> <li>• Support VESA mount (100mm)</li> </ul>										
Limited Warranty <sup>1</sup>	<b>1-year, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										
	<b>Preloaded operating system</b> <i>Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</i> <i>Some: Windows 8 Pro 64-bit</i> <b>Preloaded applications (only some listed) - Windows 7 models</b> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• Lenovo® Message Center Plus</li> <li>• Intel Small Business Advantage</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Symantec™ VIP</li> <li>• Windows Live™ Essentials</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul> <b>- Windows 8 models</b> <ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Settings</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Lenovo QuickLaunch</li> <li>• Norton™ Studio</li> <li>• Intel AppUp®</li> <li>• AccuWeather</li> <li>• PC Device Stage</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul> <b>- All models</b> <ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Automatic lock Utility</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Evernote®</li> <li>• Skype™</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> </ul>										
	ENERGY STAR® 5.2-compliant RoHS-compliant										
	Supports ThinkVantage Technologies										
	For compatible accessories, please go to O-Edge92Z sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet										

See footnotes for important warranty information  
 US model(s) announced October 23 or December 4, 2012  
 US model(s) withdrawn effective January 2014

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# ThinkCentre Edge 92z (3399) - TopSeller (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	mSATA SSD	SATA optical	Graphics	PCIe Mini Card WLAN / BT	Media reader	Key-board/Mouse	Global	Preload	Ann date (mm/dd/yy)
3399-GJU	i5-3470S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 2500	Intel 2230 + BT	Media	USB	None	Win7 Pro64	11/20/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Stylish All-In-One PC for small/medium businesses</i>										
Processor	<b>Intel® Core™ i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>										
Implementation	Processor in LGA1155 socket										
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)										
Graphics	<b>Intel HD Graphics 2500</b> in processor, use main memory, external digital monitor support via HDMI, supports dual independent display; <i>Maximum resolution: 1920x1200 (HDMI)@60Hz</i>										
Widescreen display	<b>21.5"</b> (545.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , infinity display, IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio; works as standalone monitor via HDMI-in connector										
Multi-touch	None										
Camera	Camera on top of screen, 2.0-megapixel, Full HD 1080p, fixed focus, integrated digital MIC array with stereo, LED indicator										
Controls	Front facing buttons for brightness up, brightness down, power on/off, and Video in										
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm										
mSATA™ SSD	None										
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable										
Media reader	7-in-1 Single Slot SD media reader										
Chipset	<b>Intel B75 Express Chipset</b>										
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in										
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
PCIe Mini Card	Two PCI Express® Mini Card slots										
PCIe WLAN <sup>4</sup>	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2										
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter										
PCIe mSATA	One Mini PCIe mSATA slot										
Ethernet	One gigabit ethernet port, Intel 82579LM										
Audio support	High Definition (HD) Audio, Realtek® ALC662 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync® certified										
Intel AMT	None										
Security chip	None										
Keyboard	Lenovo® Slim New F5 USB Keyboard (USB connector), black										
Mouse	Enhanced Optical USB Mouse, black										
Power supply	150 watts, autosensing, 85% PSU										
Machine	<p><i>Model(s) with Frame stand:</i></p> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 21.5" W X 3.2" D X 16.3" H</li> <li>• 545mm W X 81mm D X 414mm H (with feet)</li> <li>• 18.5 lb (8.4 kg) in maximum configuration</li> <li>• Handle in rear, removable feet</li> <li>• Support VESA mount (100mm)</li> </ul>										
	<p><b>Preloaded operating system</b></p> <p>Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</p> <p><b>Ready to install applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> <li>• Business-in-a-Box</li> </ul> <p><b>Preloaded applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Intel Small Business Advantage</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Evernote®</li> <li>• Symantec™ VIP</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>										
	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> </ul>										
	ENERGY STAR® 5.2-compliant										
	RoHS-compliant										
	Supports ThinkVantage Technologies										
	For compatible accessories, please go to O-Edge92Z sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet										
Limited Warranty <sup>1</sup>	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										

See footnotes for important warranty information  
 US model(s) announced November 20, 2012  
 US model(s) withdrawn effective January 2014

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# ThinkCentre Edge 92z (3418) - TopSeller - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	mSATA SSD	SATA optical	Graphics	PCIe Mini Card WLAN / BT	Media reader	Key-board/Mouse	Global	Win7 preload (mm/dd/yy)	Ann date (mm/dd/yy)
3418-A2U	i3-2120	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 105	None	2.4G	None	Pro 64	07/03/12
3418-B2U	i3-2120	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 105	None	USB	None	Pro 64	07/03/12
3418-B3U	G630	4GBx1	2.0M	250G 7200	None	DVD±RW	HD 7650A	Intel 105	None	USB	None	Pro 64	07/03/12
3418-B4U	G850	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 105	None	USB	None	Pro 64	07/03/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	<i>Stylish All-In-One PC for small/medium businesses</i>								<b>Preloaded operating system</b>				
Processor	<b>Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Pentium G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD 2000 Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket								Genuine Windows® 7 Professional 64  <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> <li>• Business-in-a-Box</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Intel Small Business Advantage</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Evernote®</li> <li>• Symantec™ VIP</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
Implementation	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)												
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)												
Graphics	<b>AMD Radeon™ HD 7650A</b> , 2GB memory, PCI Express® x16, 35 watts, DirectX® 11, external digital monitor support via HDMI, supports dual independent display; <i>Maximum resolution: 1920x1200(HDMI)@60Hz</i> <b>21.5"</b> (545.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , infinity display, IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio; works as standalone monitor via HDMI-in connector												
Widescreen display	<b>21.5"</b> (545.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , infinity display, IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio; works as standalone monitor via HDMI-in connector												
Multi-touch	None												
Camera	Camera on top of screen, 2.0-megapixel, Full HD 1080p, fixed focus, integrated digital MIC array with stereo, LED indicator												
Controls	Front facing buttons for brightness up, brightness down, power on/off, and Video in												
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm												
mSATA™ SSD	None												
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable												
Media reader	None												
Chipset	<b>Intel B75 Express Chipset</b>												
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in												
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
PCIe Mini Card	Two PCI Express® Mini Card slots												
PCIe WLAN <sup>1</sup>	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® wireless-N 105, 1x1												
Bluetooth	None												
PCIe mSATA	One Mini PCIe mSATA slot												
Ethernet	One gigabit ethernet port, Intel 82579LM												
Audio support	High Definition (HD) Audio, Realtek® ALC662 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync® certified												
Intel AMT	None												
Security chip	None												
Keyboard	<i>Some:</i> Lenovo® Slim New F5 USB Keyboard (USB connector), black <i>Some:</i> Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black <i>Some:</i> Enhanced Optical USB Mouse, black <i>Some:</i> Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black												
Mouse	<i>Some:</i> Enhanced Optical USB Mouse, black <i>Some:</i> Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black												
Power supply	180 watts, autosensing, 92% PSU												
Machine	<i>Model(s) with Frame stand:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 21.5" W X 3.2" D X 16.3" H</li> <li>• 545mm W X 81mm D X 414mm H (with feet)</li> <li>• 18.5 lb (8.4 kg) in maximum configuration</li> <li>• Handle in rear, removable feet</li> <li>• Support VESA mount (100mm)</li> </ul>								<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> </ul> ENERGY STAR® 5.2-compliant RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-Edge92Z sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet				
Limited Warranty <sup>1</sup>	<b>1-year, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available												

See footnotes for important warranty information

US model(s) announced July 3, 2012

US model(s) withdrawn effective May 2013 or November 2013

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(TROY1-2) January 2014

# ThinkCentre Edge 92z (3418) - TopSeller - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	mSATA SSD	SATA optical	Graphics	PCIe Mini Card WLAN / BT	Media reader	Key-board/Mouse	Global	Win7 preload	Ann date (mm/dd/yy)
3418-A8U	i7-3770S	4GBx2	2.0M	500G 7200	64GB	DVD±RW	HD 7650A	Intel 105	Media	2.4G	None	Pro 64	07/03/12
3418-A9U	i5-3550S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 105	None	2.4G	None	Pro 64	07/03/12
3418-B1U	i5-3470S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 105	None	2.4G	None	Pro 64	07/03/12
3418-C8U	i7-3770S	4GBx2	2.0M	1TB 7200	None	DVD±RW	HD 7650A	Intel 2230 + BT	Media	USB	None	Pro 64	07/03/12
3418-C7U	i5-3470S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 2230 + BT	Media	USB	None	Pro 64	07/03/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	<i>Stylish All-In-One PC for small/medium businesses</i>								<b>Preloaded operating system</b>				
Processor	<b>Intel® Core™ i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3550S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket								Genuine Windows® 7 Professional 64  <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> <li>• Business-in-a-Box</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Intel Small Business Advantage</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Evernote®</li> <li>• Symantec™ VIP</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
Implementation	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)												
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)												
Graphics	<b>AMD Radeon™ HD 7650A</b> , 2GB memory, PCI Express® x16, 35 watts, DirectX® 11, external digital monitor support via HDMI, supports dual independent display; <i>Maximum resolution: 1920x1200(HDMI)@60Hz</i> <b>21.5"</b> (545.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , infinity display, IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio; works as standalone monitor via HDMI-in connector												
Widescreen display	<b>21.5"</b> (545.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , infinity display, IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio; works as standalone monitor via HDMI-in connector												
Multi-touch	None												
Camera	Camera on top of screen, 2.0-megapixel, Full HD 1080p, fixed focus, integrated digital MIC array with stereo, LED indicator												
Controls	Front facing buttons for brightness up, brightness down, power on/off, and Video in												
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm												
mSATA™ SSD	<i>Some:</i> mSATA Solid State Drive (SSD), via PCIe Mini Card slot												
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable												
Media reader	<i>Some:</i> 7-in-1 Single Slot SD media reader												
Chipset	<b>Intel B75 Express Chipset</b>												
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in												
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
PCIe Mini Card	Two PCI Express® Mini Card slots												
PCIe WLAN <sup>1</sup>	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2												
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter												
PCIe mSATA	One Mini PCIe mSATA slot												
Ethernet	One gigabit ethernet port, Intel 82579LM												
Audio support	High Definition (HD) Audio, Realtek® ALC662 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync® certified												
Intel AMT	None												
Security chip	None												
Keyboard	<i>Some:</i> Lenovo® Slim New F5 USB Keyboard (USB connector), black <i>Some:</i> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black <i>Some:</i> Enhanced Optical USB Mouse, black <i>Some:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black												
Mouse	<i>Some:</i> Enhanced Optical USB Mouse, black <i>Some:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black												
Power supply	180 watts, autosensing, 92% PSU												
Machine	<i>Model(s) with Frame stand:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 21.5" W X 3.2" D X 16.3" H</li> <li>• 545mm W X 81mm D X 414mm H (with feet)</li> <li>• 18.5 lb (8.4 kg) in maximum configuration</li> <li>• Handle in rear, removable feet</li> <li>• Support VESA mount (100mm)</li> </ul>								<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> </ul> ENERGY STAR® 5.2-compliant RoHS-compliant Supports ThinkVantage Technologies				
Limited Warranty <sup>1</sup>	<b>1-year, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available								For compatible accessories, please go to O-Edge92Z sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information  
 US model(s) announced July 3, 2012  
 US model(s) withdrawn effective January 2014

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 (TROY1-3) January 2014



# ThinkCentre Edge 92z (3418) - TopSeller (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	mSATA SSD	SATA optical	Graphics	PCIe Mini Card WLAN / BT	Media reader	Key-board/ Mouse	Global	Preload	Ann date (mm/dd/yy)
3418-CAU	i5-3470S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 2230 + BT	None	USB	None	Win8 Pro64	10/23/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	<i>Stylish All-In-One PC for small/medium businesses</i>										<b>Preloaded operating system</b>
Processor	<b>Intel® Core™ i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>										Windows® 8 Pro 64-bit
Implementation	Processor in LGA1155 socket										<b>Preloaded applications</b> (only some listed)
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)										<ul style="list-style-type: none"> <li>• ThinkVantage® System Update</li> <li>• ThinkVantage Automatic lock Utility</li> <li>• View Management Utility</li> <li>• Lenovo® Support</li> <li>• Lenovo Settings</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Lenovo QuickLaunch</li> <li>• Lenovo Solution Center</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Norton Studio</li> <li>• Intel AppUp®</li> <li>• AccuWeather</li> <li>• PC Device Stage</li> <li>• Evernote®</li> <li>• Skype™</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul>
Graphics	<b>AMD Radeon™ HD 7650A</b> , 2GB memory, PCI Express® x16, 35 watts, DirectX® 11, external digital monitor support via HDMI, supports dual independent display; <i>Maximum resolution: 1920x1200(HDMI)@60Hz</i>										
Widescreen display	<b>21.5"</b> (545.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , infinity display, IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio; works as standalone monitor via HDMI-in connector										
Multi-touch	None										
Camera	Camera on top of screen, 2.0-megapixel, Full HD 1080p, fixed focus, integrated digital MIC array with stereo, LED indicator										
Controls	Front facing buttons for brightness up, brightness down, power on/off, and Video in										
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm										
mSATA™ SSD	None										
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable										
Media reader	None										
Chipset	<b>Intel B75 Express Chipset</b>										
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in										
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
PCIe Mini Card	Two PCI Express® Mini Card slots										
PCIe WLAN <sup>4</sup>	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2										
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter										
PCIe mSATA	One Mini PCIe mSATA slot										
Ethernet	One gigabit ethernet port, Intel 82579LM										
Audio support	High Definition (HD) Audio, Realtek® ALC662 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync® certified										
Intel AMT	None										
Security chip	None										
Keyboard	Lenovo® Slim New F5 USB Keyboard (USB connector), black										
Mouse	Enhanced Optical USB Mouse, black										
Power supply	180 watts, autosensing, 92% PSU										
Machine	<i>Model(s) with Frame stand:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 21.5" W X 3.2" D X 16.3" H</li> <li>• 545mm W X 81mm D X 414mm H (with feet)</li> <li>• 18.5 lb (8.4 kg) in maximum configuration</li> <li>• Handle in rear, removable feet</li> <li>• Support VESA mount (100mm)</li> </ul>										
Limited Warranty <sup>1</sup>	<b>1-year, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> </ul>
											ENERGY STAR® 5.2-compliant RoHS-compliant
											Supports ThinkVantage Technologies
											For compatible accessories, please go to O-Edge92Z sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
 US model(s) announced October 23, 2012  
 US model(s) withdrawn effective January 2014

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 (TROY1-6) January 2014

# ThinkCentre Edge 92z (3426) - TopSeller (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	mSATA SSD	SATA optical	Graphics	PCIe Mini Card WLAN / BT	Media reader	Key-board/Mouse	Global	Preload	Ann date (mm/dd/yy)
3426-HEU	i5-3470S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 2230 + BT	Media	USB	None	Win7 Pro64	11/20/12
3426-HFU	i3-3220	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 2230 + BT	Media	USB	None	Win7 Pro64	11/20/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Stylish All-In-One PC for small/medium businesses</i>										
Processor	<b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),</b> integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										
Implementation	Processor in LGA1155 socket										
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)										
Graphics	<b>AMD Radeon™ HD 7650A</b> , 2GB memory, PCI Express® x16, 35 watts, DirectX® 11, external digital monitor support via HDMI, supports dual independent display; <i>Maximum resolution: 1920x1200(HDMI)@60Hz</i> <b>21.5"</b> (545.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , infinity display, IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio; works as standalone monitor via HDMI-in connector										
Widescreen display	IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio; works as standalone monitor via HDMI-in connector										
Multi-touch	None										
Camera	Camera on top of screen, 2.0-megapixel, Full HD 1080p, fixed focus, integrated digital MIC array with stereo, LED indicator										
Controls	Front facing buttons for brightness up, brightness down, power on/off, and Video in										
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm										
mSATA™ SSD	None										
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable										
Media reader	7-in-1 Single Slot SD media reader										
Chipset	<b>Intel B75 Express Chipset</b>										
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in										
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
PCIe Mini Card	Two PCI Express® Mini Card slots										
PCIe WLAN <sup>4</sup>	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2										
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter										
PCIe mSATA	One Mini PCIe mSATA slot										
Ethernet	One gigabit ethernet port, Intel 82579LM										
Audio support	High Definition (HD) Audio, Realtek® ALC662 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync® certified										
Intel AMT	None										
Security chip	None										
Keyboard	Lenovo® Slim New F5 USB Keyboard (USB connector), black										
Mouse	Enhanced Optical USB Mouse, black										
Power supply	180 watts, autosensing, 92% PSU										
Machine	<i>Model(s) with Frame stand:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 21.5" W X 3.2" D X 16.3" H</li> <li>• 545mm W X 81mm D X 414mm H (with feet)</li> <li>• 18.5 lb (8.4 kg) in maximum configuration</li> <li>• Handle in rear, removable feet</li> <li>• Support VESA mount (100mm)</li> </ul>										
Limited Warranty <sup>1</sup>	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										
	<b>Preloaded operating system</b> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> <li>• Business-in-a-Box</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Intel Small Business Advantage</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Evernote®</li> <li>• Symantec™ VIP</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> </ul>										
	ENERGY STAR® 5.2-compliant RoHS-compliant										
	Supports ThinkVantage Technologies										
	For compatible accessories, please go to O-Edge92Z sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet										

See footnotes for important warranty information  
 US model(s) announced November 20, 2012  
 US model(s) withdrawn effective January 2014

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 (TROY1-9) January 2014

# ThinkCentre Edge 92z (3414) - Multi-touch (TopSeller) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	mSATA SSD	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Key-board/ Mouse	Global	Win7 preload	Ann date (mm/dd/yy)
3414-A7U	i5-3470S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 105	None	2.4G	None	Pro 64	07/03/12
3414-A8U	i5-3570S	4GBx1	2.0M	1TB 7200	None	DVD±RW	HD 7650A	Intel 105	None	2.4G	None	Pro 64	07/03/12
3414-A9U	i7-3770S	4GBx2	2.0M	1TB 7200	64GB	DVD±RW	HD 7650A	Intel 105	None	2.4G	None	Pro 64	07/03/12
3414-B3U	i3-2120	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 105	None	USB	None	Pro 64	07/03/12
3414-B4U	i5-3470S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 105	None	USB	None	Pro 64	07/03/12
3414-B5U	i7-3770S	4GBx2	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 105	None	2.4G	None	Pro 64	07/03/12
3414-C7U	i5-3470S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 2230 + BT	Media	USB	None	Pro 64	07/03/12
3414-C8U	i7-3770S	4GBx1	2.0M	1TB 7200	None	DVD±RW	HD 7650A	Intel 2230 + BT	Media	USB	None	Pro 64	07/03/12
3414-C9U	i7-3770S	4GBx1	2.0M	1TB 7200	None	DVD±RW	HD 7650A	Intel 2230 + BT	Media	2.4G	None	Pro 64	07/03/12
3414-CAU	i7-3770S	4GBx2	2.0M	1TB 7200	None	DVD±RW	HD 7650A	Intel 2230 + BT	Media	2.4G	None	Pro 64	07/03/12
3414-CPU	i5-3470S	4GBx1	2.0M	1TB 7200	None	DVD±RW	HD 7650A	Intel 2230 + BT	Media	2.4G	None	Pro 64	07/10/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	<i>Stylish All-In-One PC for small/medium businesses</i>	<b>Preloaded operating system</b> Genuine Windows® 7 Professional 64  <b>Ready to install applications</b> (only some listed) ● Rescue and Recovery™ ● Password Manager ● Business-in-a-Box  <b>Preloaded applications</b> (only some listed) ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Automatic Lock Utility ● ThinkVantage Power Manager ● View Management Utility ● Microsoft Touch Pack ● Lenovo Solution Center ● Lenovo Message Center Plus ● Intel Small Business Advantage ● RapidBoot HDD Accelerator ● Lenovo SimpleTap ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Evernote® ● Symantec™ VIP ● Skype™ for Windows ● Windows Live™ Essentials ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now™ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW)
Processor	<b>Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD 2000 Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache)</b> , Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-3570S Processor (4 cores / 4 threads, 3.1GHz, 6MB cache)</b> , Turbo Boost 2.0 (3.8GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache)</b> , Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket	
Implementation		
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	
Graphics	<b>AMD Radeon™ HD 7650A</b> , 2GB memory, PCI Express® x16, 35 watts, DirectX® 11, external digital monitor support via HDMI, supports dual independent display; <i>Maximum resolution: 1920x1200(HDMI)@60Hz</i> <b>21.5"</b> (545.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , infinity display, IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio; works as standalone monitor via HDMI-in connector	
Widescreen display		
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch	
Camera	Camera on top of screen, 2.0-megapixel, Full HD 1080p, fixed focus, integrated digital MIC array with stereo, LED indicator	
Controls	Front facing buttons for brightness up, brightness down, power on/off, and Video in	
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm	
mSATA™ SSD	<i>Some:</i> mSATA Solid State Drive (SSD), via PCIe Mini Card slot	
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable	
Media reader	<i>Some:</i> 7-in-1 Single Slot SD media reader	
Chipset	<b>Intel B75 Express Chipset</b>	
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in	
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
PCIe Mini Card	Two PCI Express® Mini Card slots	
PCIe WLAN <sup>4</sup>	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
PCIe mSATA	One Mini PCIe mSATA slot	
Ethernet	One gigabit ethernet port, Intel 82579LM	
Audio support	High Definition (HD) Audio, Realtek® ALC662 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync® certified	
Intel AMT	None	
Security chip	None	
Keyboard	<i>Some:</i> Lenovo® Slim New F5 USB Keyboard (USB connector), black <i>Some:</i> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black	
Mouse	<i>Some:</i> Enhanced Optical USB Mouse, black <i>Some:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black	
Power supply	180 watts, autosenesing, 92% PSU	
Machine	<i>Model(s) with Frame stand:</i> ● Business black color ● 21.5" W X 3.2" D X 16.3" H ● 545mm W X 81mm D X 414mm H (with feet) ● 18.5 lb (8.4 kg) in maximum configuration ● Handle in rear, removable feet ● Support VESA mount (100mm)	
Limited Warranty <sup>1</sup>	<b>1-year, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	
		<b>Security</b> ● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis) ● Boot sequence control ● Boot without keyboard and mouse ● USB port disablement  ENERGY STAR® 5.2-compliant RoHS-compliant Supports ThinkVantage Technologies  For compatible accessories, please go to O-Edge92Z sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
 US model(s) announced July 3 or July 10, 2012  
 US model(s) withdrawn effective November 2013 or January 2014

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# ThinkCentre Edge 92z (3414) - Multi-touch (TS) - Win 8 - withdrawn Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	mSATA SSD	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Key-board/Mouse	Global	Preload	Ann date (mm/dd/yy)
3414-CVU	i5-3470S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 2230 + BT	None	USB	None	Win8 Pro64	10/23/12
3414-D3U	i5-3470S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 2230 + BT	Media	USB	None	Win8 Pro64	10/23/12
3414-D4U	i7-3770S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 2230 + BT	Media	USB	None	Win8 Pro64	10/23/12
3414-DJU	i5-3470S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 2230 + BT	Media	USB	None	Win7 Pro64	10/23/12
3414-DKU	i3-3220	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 2230 + BT	Media	USB	None	Win7 Pro64	10/23/12
3414-DLU	G870	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 2230 + BT	Media	USB	None	Win7 Pro64	10/23/12
3414-DNU	i7-3770S	8GBx2	2.0M	1TB 7200	None	BD player	HD 7650A	Intel 2230 + BT	Media	2.4G	None	Win7 Pro64	11/13/12
3414-ELU	G2120	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 2230 + BT	Media	USB	None	Win8 Pro64	12/04/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	<i>Stylish All-In-One PC for small/medium businesses</i>										<b>Preloaded operating system</b>		
Processor	<b>Intel® Pentium® G870 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Pentium G2120 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache)</b> , Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache)</b> , Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit		
Implementation	Processor in LGA1155 socket										<b>Preloaded applications (only some listed)</b>		
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)										<b>- Windows 7 models</b>		
Graphics	<b>AMD Radeon™ HD 7650A</b> , 2GB memory, PCI Express® x16, 35 watts, DirectX® 11, external digital monitor support via HDMI, supports dual independent display; <i>Maximum resolution: 1920x1200(HDMI)@60Hz</i> <b>21.5"</b> (545.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , infinity display, IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio; works as standalone monitor via HDMI-in connector										<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• Microsoft Touch Pack</li> <li>• Lenovo® Message Center Plus</li> <li>• Intel Small Business Advantage</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Symantec™ VIP</li> <li>• Windows Live™ Essentials</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> <li>• Corel WinDVD® (BD player)</li> </ul>		
Widescreen display	IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio; works as standalone monitor via HDMI-in connector										<b>- Windows 8 models</b>		
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch										<ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Settings</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Lenovo QuickLaunch</li> <li>• Norton™ Studio</li> <li>• Intel AppUp®</li> <li>• AccuWeather</li> <li>• PC Device Stage</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul>		
Camera	Camera on top of screen, 2.0-megapixel, Full HD 1080p, fixed focus, integrated digital MIC array with stereo, LED indicator										<b>- All models</b>		
Controls	Front facing buttons for brightness up, brightness down, power on/off, and Video in										<ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Automatic lock Utility</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Evernote®</li> <li>• Skype™</li> </ul>		
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm												
mSATA™ SSD	None												
Optical	Some: Blu-ray™ disc reader (no Blu-ray media burning), DVD recordable, not removable, 12.7mm high, tray-in Some: DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable Some: 7-in-1 Single Slot SD media reader												
Media reader	Some: 7-in-1 Single Slot SD media reader												
Chipset	<b>Intel B75 Express Chipset</b>												
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in												
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
PCIe Mini Card	Two PCI Express® Mini Card slots												
PCIe WLAN <sup>4</sup>	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2												
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter												
PCIe mSATA	One Mini PCIe mSATA slot												
Ethernet	One gigabit ethernet port, Intel 82579LM												
Audio support	High Definition (HD) Audio, Realtek® ALC662 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync® certified												
Intel AMT	None												
Security chip	None												
Keyboard	Some: Lenovo® Slim New F5 USB Keyboard (USB connector), black Some: Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black Some: Enhanced Optical USB Mouse, black Some: Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black										<b>Security</b>		
Mouse	Some: Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black										<ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> </ul>		
Power supply	180 watts, autosensing, 92% PSU										ENERGY STAR® 5.2-compliant		
Machine	<i>Model(s) with Frame stand:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 21.5" W X 3.2" D X 16.3" H</li> <li>• 545mm W X 81mm D X 414mm H (with feet)</li> <li>• 18.5 lb (8.4 kg) in maximum configuration</li> <li>• Handle in rear, removable feet</li> <li>• Support VESA mount (100mm)</li> </ul>										RoHS-compliant		
Limited Warranty <sup>1</sup>	<b>1-year, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										Supports ThinkVantage Technologies		
											For compatible accessories, please go to O-Edge92Z sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet		

See footnotes for important warranty information  
 US model(s) announced October 23, November 13, or December 4, 2012  
 US model(s) withdrawn effective November 2013 or January 2014

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# ThinkCentre Edge 92z (3417) - Multi-touch (TS) - Win 8 - withdrawn Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	mSATA SSD	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Key-board/Mouse	Global	Preload	Ann date (mm/dd/yy)
3417-K1U	i5-3470S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 2230 + BT	Media	USB	None	Win7 Pro64	11/20/12
3417-K2U	i3-3220	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 105	Media	USB	None	Win7 Pro64	11/20/12
3417-K3U	i7-3770S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 2230 + BT	Media	USB	None	Win7 Pro64	11/20/12
3417-K4U	i3-3220	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 2230 + BT	Media	USB	None	Win8 Pro64	11/20/12
3417-K5U	i5-3470S	4GBx1	2.0M	500G 7200	None	DVD±RW	HD 7650A	Intel 2230 + BT	Media	USB	None	Win8 Pro64	11/20/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Stylish All-In-One PC for small/medium businesses</i>										<b>Preloaded operating system</b>		
Processor	<b>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller <b>Intel Core i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache)</b> , Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache)</b> , Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit		
Implementation											<b>Preloaded applications (only some listed) - Windows 7 models</b>		
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)										<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• Microsoft Touch Pack</li> <li>• Lenovo® Message Center Plus</li> <li>• Intel Small Business Advantage</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Adobe® Reader®</li> <li>• Symantec™ VIP</li> <li>• Windows Live™ Essentials</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>		
Graphics	<b>AMD Radeon™ HD 7650A</b> , 2GB memory, PCI Express® x16, 35 watts, DirectX® 11, external digital monitor support via HDMI, supports dual independent display; <i>Maximum resolution: 1920x1200(HDMI)@60Hz</i>										<ul style="list-style-type: none"> <li>• Windows 8 models</li> <li>• Lenovo Support</li> <li>• Lenovo Settings</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Lenovo QuickLaunch</li> <li>• Norton™ Studio</li> <li>• Intel AppUp®</li> <li>• AccuWeather</li> <li>• PC Device Stage</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> </ul>		
Widescreen display	<b>21.5"</b> (545.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , infinity display, IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio; works as standalone monitor via HDMI-in connector										<ul style="list-style-type: none"> <li>• All models</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Automatic lock Utility</li> <li>• Lenovo Solution Center</li> <li>• View Management Utility</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Evernote®</li> <li>• Skype™</li> </ul>		
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch												
Camera	Camera on top of screen, 2.0-megapixel, Full HD 1080p, fixed focus, integrated digital MIC array with stereo, LED indicator												
Controls	Front facing buttons for brightness up, brightness down, power on/off, and Video in												
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm												
mSATA™ SSD	None												
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable												
Media reader	7-in-1 Single Slot SD media reader												
Chipset	<b>Intel B75 Express Chipset</b>												
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in												
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
PCIe Mini Card	Two PCI Express® Mini Card slots												
PCIe WLAN <sup>1</sup>	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® wireless-N 105, 1x1 Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2												
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter												
PCIe mSATA	One Mini PCIe mSATA slot												
Ethernet	One gigabit ethernet port, Intel 82579LM												
Audio support	High Definition (HD) Audio, Realtek® ALC662 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync® certified												
Intel AMT	None												
Security chip	None												
Keyboard	Lenovo® Slim New F5 USB Keyboard (USB connector), black												
Mouse	Enhanced Optical USB Mouse, black												
Power supply	180 watts, autosensing, 92% PSU												
Machine	<i>Model(s) with Frame stand:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 21.5" W X 3.2" D X 16.3" H</li> <li>• 545mm W X 81mm D X 414mm H (with feet)</li> <li>• 18.5 lb (8.4 kg) in maximum configuration</li> <li>• Handle in rear, removable feet</li> <li>• Support VESA mount (100mm)</li> </ul>										<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> </ul>		
Limited Warranty <sup>1</sup>	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										ENERGY STAR® 5.2-compliant RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-Edge92Z sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet		

See footnotes for important warranty information  
 US model(s) announced November 20, 2012  
 US model(s) withdrawn effective January 2014

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## Memory

2GB PC3-12800 DDR3 SODIMM	0A65722	<i>ann 06/05/12</i>
4GB PC3-12800 DDR3 SODIMM	0A65723	<i>ann 06/05/12</i>
8GB PC3-12800 DDR3 SODIMM	0A65724	<i>ann 06/05/12</i>

More information at

[www.lenovo.com/support/desktopmemorycompatibility](http://www.lenovo.com/support/desktopmemorycompatibility)

## Storage and removable storage

USB 3.0 Secure 500GB Hard Drive	0A65619	<i>ann 11/29/11</i>
USB 3.0 Secure 750GB Hard Drive	0A65616	<i>ann 11/29/11</i>
USB 3.0 Secure 1TB Hard Drive	0A65621	<i>ann 08/28/12</i>

## Keyboard

Enhanced Performance USB Keyboard	73P2620	<i>ann 03/23/04</i>
Ultraslim Plus Wireless Keyboard and Mouse <sup>52</sup>	0A34032	<i>ann 04/05/11</i>
ThinkPad® USB Keyboard with TrackPoint	55Y9003	<i>ann 08/18/09</i>
Lenovo® USB Fingerprint Keyboard	73P4730	<i>ann 02/22/05</i>
Lenovo USB Smartcard Keyboard	51J0155	<i>ann 03/24/09</i>

<sup>52</sup> Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at [www.lenovo.com/support/keyboards](http://www.lenovo.com/support/keyboards)

## Mouse

Lenovo Laser Mouse (USB)	41U3074	<i>ann 01/23/07</i>
Lenovo Wireless Laser Mouse <sup>52</sup>	0A36188	<i>ann 12/20/11</i>

More information at [www.lenovo.com/support/mice](http://www.lenovo.com/support/mice)

## Multimedia

ThinkPad In-Ear Headphones with mic	57Y4488	<i>ann 01/07/10</i>
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## Security

Kensington® MicroSaver® Cable Lock <sup>56</sup>	73P2582	<i>ann 12/29/03</i>
Kensington Twin Head Cable Lock <sup>56</sup>	45K1620	<i>ann 09/30/08</i>
3M ThinkCentre Edge91z/92z Privacy Filter	4Z10A23290	<i>ann 09/30/08</i>

<sup>56</sup> Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

## Stand

ThinkCentre Edge 91z/92z Stand <sup>59</sup>	0A33969	<i>ann 07/26/11</i>
ThinkCentre Extend Arm <sup>57</sup>	57Y4352	<i>ann 07/06/10</i>

<sup>57</sup> Compatible when ThinkCentre Extend Arm is desk (clamp) mounted only, wall mount is not supported.  
<sup>59</sup> Not compatible to Multi-touch models.

## Monitor Accessories<sup>46</sup>

Lenovo HDMI to VGA Monitor Cable	0B47069	<i>ann 06/26/12</i>
Kensington MicroSaver Cable Lock <sup>56</sup>	73P2582	<i>ann 12/29/03</i>
Kensington Twin Head Cable Lock <sup>56</sup>	45K1620	<i>ann 09/30/08</i>

<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

For more information on accessories:

[www.lenovo.com/accessories](http://www.lenovo.com/accessories)

Purchase Lenovo accessories

[www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)

Product specifications on Lenovo Support

[www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)

Option Compatibility Matrix (OCM) and accessory brochures

[www.lenovoquickpick.com](http://www.lenovoquickpick.com)

An Options Compatibility Configurator for Lenovo systems



- Availability:** All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.
- Warranty:** For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC, 27709, Attn: Dept ZPYA/B676. Lenovo makes no representation or warranty regarding third party products or services.
- <sup>1</sup> **Limited warranty:** Support unrelated to a warranty issue may be subject to additional charges.
  - <sup>2</sup> **Hard drive:** GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.
  - <sup>3</sup> **Limited onsite service systems** are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by Lenovo. Lenovo will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by Lenovo for onsite replacement. For a list of onsite replaceable parts, contact Lenovo. In the United States call 1-800-426-7378. Support unrelated to a warranty issue may be subject to additional charges. Lenovo onsite repair (LOR), 8 am to 5 pm, Monday through Friday coverage excluding holidays, next business day (NBD) response time.
  - <sup>4</sup> **CD and DVD list** maximum rates; rates are variable and are often less than the maximum.
  - <sup>5</sup> **Included software** may differ from its retail version (if available), and may not include user manuals or all program functionality. License agreements may apply.
  - <sup>6</sup> **Multi-Burner Plus** (part number 73P3305 or 73P3370) is a DVD±RW device that reads and writes to DVD-RAM, DVD-R, DVD-RW, DVD+R, and DVD+RW. It also reads and writes to CD-R and CD-RW media. 73P3370 also writes to DVD+R double layer media.
  - <sup>7</sup> **ThinkPlus Services:** These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part will be express shipped to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. P&L means parts and labor. P/U means pick-up. See ThinkPlus terms and conditions for complete details and restrictions.
  - <sup>8</sup> **Memory:** For PCs without a separate graphics card, memory supports both system and video. Accessible system memory may be up to 384MB less than the amount stated, depending on video mode.
  - <sup>9</sup> **International Warranty Service** is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.
  - <sup>10</sup> **Modem speeds:** Public network download speeds are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.
  - <sup>11</sup> **For combination drives**, maximum speeds only are given in the following order: CD read, CD write, CD re-write, DVD read.
  - <sup>14</sup> **Response times may vary.** May exclude some holidays. Telephone support may be subject to additional charges.
  - <sup>15</sup> **Update Connector** is available at no charge to registered customers during the limited warranty period. Line charges may apply.
  - <sup>16</sup> **Embedded Security Subsystem** works with optional VPN software.

- <sup>18</sup> **Embedded Security Subsystem** may require download of client security software from the Web.
- <sup>19</sup> **Asset ID** allows system-specific information to be stored in a chip inside the system; it does not have any radio frequency support.
- <sup>20</sup> **Operating System:** Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to [lenovo.com/pc/support](http://lenovo.com/pc/support) and enter your machine type and model number for more information.

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