ThinkCentre M82 Small and Tower

Lenovo ThinkCentre M82 Small

Lenovo ThinkCentre M82 Tower with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M82 Small with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M82 Tower
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>Memory¹</th>
<th>SATA disk GB rpm</th>
<th>SATA optical</th>
<th>Media reader</th>
<th>Graphics</th>
<th>Display-Port dongle</th>
<th>Chassis Intr switch</th>
<th>Floor stand</th>
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<th>Global</th>
<th>Win 7 preload</th>
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**Positioning**
Mainstream enterprise stability and manageability

**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

**Graphics**
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

Some: AMD Radeon™ HD 7500, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter,

one DVI-I (includes DVI-I 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

Some: AMD Radeon HD 7450, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter,

one DVI-I (includes DVI-I 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

**Implementation**
Processor in LGA1155 socket

**Memory**
32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

**Chipset**
Intel® Q75 Express Chipset

**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

**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**
- Business black color; metal case
- 13.3” W X 15.2” D X 3.9” H
- 338mm W X 385mm D X 100mm H
- 16.5 lb (7.5 kg) in maximum configuration
- Toolless cover flips up and tills backward on rear hinges
- Toolless disk and optical drive removal
- Toolless adapter retention

**Bay**
Bay 1: 5.25”, 1.6” high, access, std optical
Bay 2: 3.5”, .5” high, access, std optical
Bay 3: 3.5”, .5” high, access, opt reader
Bay 4: 3.5”, .5” high, access, std optical

**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**
3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

---

Preloaded operating system
Genuine Windows® 7
Professional 64

Ready to install applications (only some listed)
- Rescue and Recovery™
- Password Manager

Preloaded applications (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
- Adobe® Reader®
- Skype® for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.New™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

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)

See footnotes for important warranty information
US models announced June 19 or July 10, 2012
©Lenovo (MDTN1-6) July 2012
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- **Small and medium business (SMB) model(s), part of the US TopSeller™ Program**
- **3-year limited warranty**

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**Preloaded operating system**
- Genuine Windows® 7 Professional 64

**Ready to install applications** (only some listed)
- Rescue and Recovery™
- Password Manager

**Preloaded applications** (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)

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**Limited Warranty**
- **3-years, limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

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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)

**Positioning**

- Mainstream enterprise stability and manageability

**Processor**

- **Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500**
- **Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500**
- **Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000**

**Memory**

- 32GB max,
- **Integrated 1600MHz dual-channel DDR3 memory controller**
- **Integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology**
- **4 cores / 8 threads**

**Chipset**

- **Intel Q75 Express Chipset**

**Audio**

- **High Definition (HD) Audio, Realtek® ALC662 codec**

**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**

- **Intel Q75 Express Chipset**

**Front ports**

- Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

**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**

**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, autoselecting, active Power Factor Correction

**Machine**

- **Business black color; metal case**
- **13.3" W X 15.2" D X 9.9" H**
- **338mm W X 385mm D X 100mm H**
- **16.5 lb (7.5 kg) in maximum configuration**
- **Toolless cover flips up and tilts backward on rear hinges**
- **Toolless disk and optical drive removal**
- **Toolless adapter retention**

**Bay**

- Bay 1: 5.25", 1.6" high, access, standard optical
- Bay 2: 3.5", 1" high, no access, standard 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**

- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

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

- **Preloaded operating system**
  - Genuine Windows® 7 Professional 64

- **Ready to install applications (only some listed)**
  - Rescue and Recovery™
  - Password Manager

- **Preloaded applications (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
  - Windows Live Essentials
  - Microsoft® Office preloaded; purchase a product key to activate
  - Corel® Burn.Now™ (DVD±RW)
  - Corel DVD MovieFactory™ (DVD±RW)

- **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 disabling
  - Chassis intrusion switch on selected model(s)

- **GREENGUARD® certified**
- RoHS-compliant

- Supports ThinkVantage Technologies

See footnotes for important warranty information

US models announced July 10 or September 4, 2012

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(MDTN1-13) September 2012
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**Positioning Processor**

Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz), or AMD APU A8 (1 core / 1 thread, 1.0GHz, 512KB cache) or AMD APU A6 (1 core / 1 thread, 1.0GHz, 512KB cache).

**Memory**

- 32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets
- 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
  - 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 preload; 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)

**Certification**

- GREENGUARD® certified
- RoHS-compliant

- Supports ThinkVantage Technologies
- For compatible accessories, please go to O-M82 sheet
- For Lenovo service upgrade options, please go to 5-TC sheet

See footnotes for important warranty information

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US models announced October 23, 2012 or March 5, 2013

(MDTN1-16) March 2013
ThinkCentre M82 Tower (3302) - TopSeller - withdrawn

**Product Specifications Reference (PSREF)**

**Positioning**
Mainstream enterprise stability and manageability

**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

**Memory**
32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

**Graphics**
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

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

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

**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**
Intel® Q75 Express Chipset

**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**
Business black color; metal case

- 6.9” W X 17.4” D X 16.3” H
- 175mm W X 442mm D X 414mm H
- 24.2 lb (11.0 kg) in maximum configuration
- Toolless cover removal, toolless adapter retention
- Toolless disk, optical drive removal

**Drive Bay**
Bay 1: 5.25”, 1.6” high, access, standard 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, standard 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

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

©Lenovo (MDTN1-9) June 2012
ThinkCentre M82 Tower (3302) - TopSeller - withdrawn

Product Specifications Reference (PSREF)

**Positioning**
Mainstream enterprise stability and manageability

**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**
32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

**Graphics**
Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX 10.1, one VGA, one DisplayPort™, supports dual independent display, Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz

**Disk**
SATA 6.0Gb/s 7200 rpm

**Optical controller**
Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive

**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

**Audio**
High Definition (HD) Audio, Realtek® ALC662 codec

**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**
Business black color; metal case
- 6.9” W x 17.4” D x 16.3” H
- 175mm W x 442mm D x 414mm H
- 24.2 lb (11.0 kg) in maximum configuration
- Toolless cover removal, toolless adapter retention
- Toolless disk, optical drive removal

**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

**Preloaded operating system**
Genuine Windows® 7
ProfessionaL 64

**Ready to install applications**
(only some listed)
- Rescue and Recovery™
- Password Manager

**Preloaded applications**
(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)

**Limited Warranty**
3-years, limited onsite service. 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 model announced July 10, 2012
(MDTN1-14) November 2013
Type-model | Slot x bay | Processor | Memory | SATA disk | 2nd Disk | SATA optical | Media reader | Graphics | Display-Port | Chassis intrusion switch | ENERGY STAR | Win7 preload | Ann date (mm/dd/yy)
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
3302-B2U 4x5 | i5-3570 | 4GBx1 1600MHz | Bay | DVD±RW | None | HD 2500 | None | None | None | None | Pro 64 | 07/10/12
3302-B3U 4x5 | i7-3770 | 4GBx1 1600MHz | Bay | DVD±RW | None | HD 4000 | None | 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 | None | Pro 64 | 09/04/12

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

Positioning
Mainstream enterprise stability and manageability

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
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
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

Implementation
Processor in LGA1155 socket

Memory
32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

Graphics
Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz

Audio
Realtek® ALC662 codec

IEEE 1394
Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive

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

Media reader
None

eSATA port
None

Computer Power
280 watts with variable speed fan, manual switch

Preloaded operating system
Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)
- Rescue and Recovery™
- Password Manager

Preloaded applications (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)

Security
- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (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)

RoHS-compliant
GREENGUARD® certified

Keyboard and Mouse
Keyboard: Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse: Enhanced Optical USB Mouse, black, Lenovo logo

Machine
Business black color; metal case
- 6.9" W x 17.4" D x 16.3" H
- 175mm W x 442mm D x 414mm H
- 24.2 lb (11.0 kg) in maximum configuration
- Toolless cover removal, toolless adapter retention
- Toolless disk, optical drive removal

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

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

©Lenovo
(MDTN1-15) September 2012
ThinkCentre M82 Tower (3302) - TopSeller (Win 8) - withdrawn

Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
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<th>Processor</th>
<th>Memory¹</th>
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<th>Bay</th>
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<th>Graphics</th>
<th>Display-Port dongle</th>
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</table>

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

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)
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for optional Kensington® MicroSaver® cable)
  - Security slot (in rear for option)

- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Individual USB port disablement
- Boot without keyboard and mouse
- Serial port I/O control
- 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 October 23, 2012 or March 12, 2013

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(MDTN1-20) March 2013
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<th>Media reader</th>
<th>Graphics</th>
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<th>Chassis Intr switch</th>
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<th>ENERGY STAR 5.2</th>
<th>Win7 preload</th>
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<td>Stand</td>
<td>None</td>
<td>Pro 32</td>
<td>06/19/12</td>
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</table>

**3-year limited warranty**

**Positioning**
- Mainstream enterprise stability and manageability

**Processor**
- Intel® Pentium® G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache),
- integrated Intel HD Graphics,
- integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology

**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

**Intel Core i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),**
- integrated Intel HD Graphics 2000,
- integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology

**Memory**
- 32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

**Graphics**
- Intel HD Graphics or Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz

**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**
- Intel Q75 Express Chipset

**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 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**
- Business black color; metal case
- 13.9" W X 15.2" D X 3.9" H
- 33.8mm W X 385mm D X 100mm H
- 16.5 lb (7.5 kg) in maximum configuration
- Toolless cover flips up and tilts backward on rear hinges
- Toolless disk and optical drive removal
- Toolless adapter retention

**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, PCIe 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**
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available
<table>
<thead>
<tr>
<th>Type-model</th>
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<th>SATA optical</th>
<th>Media reader</th>
<th>Graphics</th>
<th>Display-Port</th>
<th>Chassis Inr switch</th>
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</table>

- **3-year limited warranty**

### Preloaded operating system

- Some: Genuine Windows® 7
- Some: Genuine Windows 7 Professional

### Preloaded applications (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)

### 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

### 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 Lenovo service upgrade options, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet
<table>
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<th>Processor</th>
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<th>Media reader</th>
<th>Graphics</th>
<th>Display Port</th>
<th>Chassis</th>
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<td>None</td>
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</table>

### Preloaded operating system

- **Windows 8 Pro 64-bit**
- **Windows 8 Pro 64-bit**

### Preloaded applications

- **ThinkVantage Product Recovery**
- **ThinkVantage Communication Utility**
- **ThinkVantage Power Manager**
- **Lenovo AppShop**
- **Lenovo Solution Center**
- **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**

### 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**
- **Virtual disk password**
- **Boot sequence control**
- **Boot without keyboard and mouse**
- **Individual USB port disabled**
- **Chassis intrusion switch on selected model(s)**

**GREENGUARD® certified RoHS-compliant**

- **Supports ThinkVantage Technologies**
- **Lenovo Support**

### Additional Information

- Lenovo Windows 8 Small (3395) - Windows 8 - withdrawn
- Audio: High Definition (HD) Audio, Realtek
- Internal Connector: Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
- Media reader: None
- Onboard SATA: Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, SATA controller Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
- Slot 3: Low Profile, 32-bit PCI 2.3
- Bay 2: 3.5", 1" high, no access, std disk
- Security slot (in rear for attachment of security chip)
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available
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<td>06/05/12</td>
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</tbody>
</table>

- **3-year limited warranty**

### Positioning

**Mainstream enterprise stability and manageability**

### Processor

**Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache),**
integrated Intel HD Graphics,
integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology

**Intel Pentium® G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache),**
integrated Intel HD Graphics,
integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology

**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

### Memory

32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

### Graphics

Intel HD Graphics or Intel HD Graphics 2000 in processor, uses main memory, HDCP,
DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display;
*Maximum resolution: 2560x1600 (DisplayPort, VGA)*@60Hz

### 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

Intel Q75 Express Chipset

### 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®

### Management

Intel Standard Manageability

### Modern

None

### 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)

### Keyboards

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

- Business black color; metal case
- 13.3" W X 15.2" D X 3.9" H
- 338mm W X 385mm D X 100mm H
- 16.5 lb (7.5 kg) in maximum configuration
- Toolless cover flips up and tilts backward on rear hinges
- Toolless disk and optical drive removal
- Toolless adapter retention

### 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
Bay 4: 3.5", 5" high, access, opt reader

### Slot

Slot 1: Low Profile, PCIe 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

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays,
next business day response time / service upgrades available

---

**Preloaded operating system**
Genuine Windows® 7 Professional 64

**Ready to install applications** (only some listed):
- Rescue and Recovery™
- Password Manager

**Preloaded applications (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)

---

**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)

**Optical Glasses**

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

**Product Specifications Reference (PSREF)**

#### Type-model | Processor | Memory | SATA disk | SATA optical | Media reader | Graphics | Display-Port | Chassis intr switch | Floor stand | ENERGY STAR 5.2 | Global | Win7 preload | Ann date (mm/dd/yy) |
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#### Positioning

**Mainstream enterprise stability and manageability**

#### Processor

**Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.6GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology 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 Intel Core i5-3570 Processor (4 cores / 4 threads, 3.6GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor Intel Core i5-3570 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 16000MHz dual-channel DDR3 memory controller, Virtualization Technology

#### Implementation

Processor in LGA1155 socket

#### Memory

32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

#### Graphics

**Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz

#### Disk

SATA 6.0Gb/s 7200 rpm

#### Optical

Super Multi-Burner DL DVDs-R 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

**Intel® Q75 Express Chipset**

#### 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 Mouse

Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, black, Lenovo logo

#### Floor Stand

System floor stand for vertical orientation

#### Power supply

240 watts, autosensing, 85% PSU

#### Machine

- Business black color; metal case
- 13.9” W X 15.2” D X 3.9” H
- 338mm W X 835mm D X 100mm H
- 16.5 lb (7.5 kg) in maximum configuration
- Toolless cover flips up and tilts backward on rear hinges
- Toolless disk and optical drive removal
- Toolless adapter retention

#### 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

3-years, limited onsite service. 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 June 5, 2012

(MDTN1-2) November 2012

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### Preloaded operating system

- **Some**: Genuine Windows® 7 Professional
- **Some**: Genuine Windows 7 Professional

### Preloaded applications (only some listed)

- **Rescue and Recovery™**
- **Password Manager**

### Ready to install applications (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**
- **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)**

### Security

- Security chip (see information on left)
- Security slot (in rear for attachement 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)**

### See footnotes for important warranty information

### For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet
ThinkCentre M82 Small (2756) -ES 5.2 (Win 8) - withdrawn

Product Specifications Reference (PSREF)

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- **3-year limited warranty**

**Positioning**
Mainstream enterprise stability and manageability

**Processor**
Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller

**Graphics**
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

**Memory**
32GB max, four 240-pin DIMM sockets

**Chipset**
Intel Q75 Express 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

**SATA controller**
Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset

**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**
Business black color; metal case

**Bay**
Bay 1: 5.25”, 1.6” high, access, std optical
Bay 2: 3.5”, 1” high, access, std optical

**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**
3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

**Preloaded operating system**
Windows® 8 Pro 64-bit

**Preloaded applications**
(only some listed)
- ThinkVantage® System Update
- View Management Utility
- Lenovo® Support
- Lenovo Companion
- Lenovo Cloud Storage
- Lenovo QuickLaunch
- Lenovo Solution Center
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security
- Norton Studio
- Intel AppUp™
- AccuWeather®
- PC Device Stage
- Evernote®
- Skype™
- Cyberlink Power2Go (DVD+R)
- Cyberlink PowerProducer (DVD±RW)

**Safety**
- 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)

---

See footnotes for important warranty information
US models announced October 23, 2012
©Lenovo (MDTN1-18) October 2012
### ThinkCentre M82 Small (2756) - ES 5.2 (Win 8) - II - withdrawn

#### Product Specifications Reference (PSREF)

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<td>10/23/12</td>
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</table>

#### Preloaded operating system

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

#### Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

#### Preloaded applications (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
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD:RW)
- Corel DVD MovieFactory™ (DVD:RW)

#### 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)

#### ENERGY STAR 5.2-compliant

#### RoHS-compliant

#### GREENGUARD® certified

### Limited Warranty

- 3-years, limited onsite service, 5 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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(MDTN1-24) October 2012
## ThinkCentre M82 Small (2929) - ES 5.2 (GMP) - withdrawn

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

---

## Positioning
Mainstream enterprise stability and manageability

## Processor
- **Intel Core i5-3470 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),** Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
- **Intel Core i5-3550 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),** Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
- **Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),** Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

## Implementation
- **Memory** 32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

## Graphics
- **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

## Disk
- **SATA controller** Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset

## Optical
- **Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive**

## 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
- **Intel Q75 Express Chipset**

## Front ports
- Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm), Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)

## Rear audio ports
- 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®

## Machine
- Business black color; metal case
- 13.3" W X 15.2" D X 3.9" H
- 338mm W X 385mm D X 100mm H
- 16.5 lb (7.5 kg) in maximum configuration
- Toolless cover flips up and tilts backward on rear hinges
- Toolless disk and optical drive removal
- Toolless adapter retention
- **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

---

### 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)**

### Preloaded operating system
Genuine Windows® 7 Professional 64

### Ready to install applications (only some listed)
- Rescue and Recovery™
- Password Manager

### Preloaded applications (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)

### Limited Warranty
**3-years, limited onsite service,** 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

©Lenovo (MDTN1-3) August 2012
ThinkCentre M82 Small (2929) - ES 5.2 (GMP) - Win 8 - withdrawn

Product Specifications Reference (PSREF)

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<th>SATA optical</th>
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- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

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
  - Windows (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)

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 October 23, 2012

©Lenovo

(MDTN1-19) October 2012
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³-year limited warranty

Preloaded operating system
Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)
- Rescue and Recovery™
- Password Manager

Preloaded applications (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)

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

Preloaded applications (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®
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- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD+RW)
- Corel DVD MovieFactory® (DVD±RW)

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

Preloaded applications (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)

Security
- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for optional Kensington® MicroSaver® cable)
  - Security slot (in rear for optional)
  - Cable lock
  - Boot without keyboard and mouse
  - Serial port I/O control
  - Individual USB port disablement
  - Chassis intrusion switch on selected model(s)
### ThinkCentre M82 Tower (3392) - II - withdrawn

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#### Preloaded operating system

- Some: Genuine Windows® 7 Professional
- Some: Genuine Windows 7 Professional 64

#### Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

#### Preloaded applications (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)

### Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected module(s)

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

#### Product Specifications Reference (PSREF)

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**Positioning**

Mainstream enterprise stability and manageability

**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

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

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

Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

**Implementation**

Processor in LGA1155 socket

**Memory**

32GB max. UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

**Graphics**

Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz

**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)
  - 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)
- 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

**Machine**

- Business black color; metal case
- 69" W X 17.4" D X 16.3" H
- 175mm W X 442mm D X 414mm H
- 24.2 lb (11.0 kg) in maximum configuration
- Toolless cover removal, toolless adapter retention
- Toolless disk, optical drive removal

**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

**Limited Warranty**

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

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See footnotes for important warranty information

US models announced October 23, 2012 or March 12, 2013

©Lenovo (MDTN1-21) March 2013
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Positioning
Mainstream enterprise stability and manageability

Processor
- Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.6GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1066MHz)
- Intel® Pentium® G2020 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz)
- Intel® Pentium® G870 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz)
- Intel® Pentium® G2120 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1600MHz)
- Intel® Core® i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1600MHz)
- Intel® Core® i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1600MHz)

Implementation
Processor in LGA1155 socket

Memory
32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 24-pin DIMM sockets

Graphics
- Intel HD Graphics or Intel HD Graphics 2000 in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz
- Intel® HD Graphics, integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1600MHz or 1333MHz DDR3 memory controller)
- Intel HD Graphics, integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz)
- Intel HD Graphics, integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1600MHz)
- Intel HD Graphics, integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1600MHz)

Chipset
- Intel® Q75 Express Chipset
- Intel® Q87 Express Chipset

Front ports
- Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
- Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort

Rear ports
- Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
- 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
- Internal speaker for business audio

IEEE 1394
- None

Ethernet
- One gigabit ethernet port, Intel 82579, Wake on LAN®

Manageability
- Intel Standard Manageability
- None

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)
- Greenguard® certified RoHS-compliant

Limited Warranty
3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available
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- **3-year limited warranty**

### Preloaded operating system

- **Some:** Genuine Windows® 7 Professional 32
- **Some:** Genuine Windows 7 Professional 64

### Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

### Preloaded applications (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
- 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)

### 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)
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- 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)

### Limited Warranty

- **3-years, limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

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See footnotes for important warranty information

US models announced June 5 or November 6, 2012 ©Lenovo

(MDTN1-4) November 2012
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<td>None</td>
<td>None</td>
<td>ES52</td>
<td>None</td>
<td>Win7 Pro 64</td>
<td>10/23/12</td>
</tr>
</tbody>
</table>

**Positioning**

Mainstream enterprise stability and manageability

**Processor**

Intel® Core™ i3-2130 Processor (2 cores / 4 threads), 3.4GHz, 3MB cache, integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1333MHz)

Intel Core i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz)

Intel Core i3-3420 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz)

Intel Core i5-3470 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz)

Intel Core i7-3770 Processor (4 cores / 4 threads, 3.4GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

**Implementation**

Processor in LGA1155 socket

**Memory**

32GB max, UDIMM, PC3-12800 1600 MHz DDR3, four 240-pin DIMM sockets

**Graphics**

Some: Intel HD Graphics 2000 / 2500 / 4000 in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz

Some: AMD Radeon™ HD 7450, DirectX 11, 1GB, PCI Express® x16, 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

**Disk**

SATA 6.0Gbps 7200 rpm

**Optical**

Super Multi-Burner DL DVD±RW SATA 1.5Gbps 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**

Intel Q75 Express Chipset

**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**

Business black color; metal case

6.9” W X 17.4” D X 16.3” H

175mm W X 442mm D X 414mm H

24.2 lb (11.0 kg) in maximum configuration

Toolless cover removal, toolless adapter retention

Toolless disk, optical drive removal

**Bay**

Bay 1: 5.25”, 1.6” high, access, std optical

Bay 2: 5.25”, 1.6” high, access, open

Bay 3: 5.25”, 1.6” 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

**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® 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 definition updates)
  - Microsoft® Office preloaded; purchase a product key to activate
  - Skype®

**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
  - 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.

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(MDTN1-22) October 2012

See footnotes for important warranty information

US models announced October 23, 2012
| Type-model | Slot x bay | Processor | Memory | SATA disk GB | rpm | 2nd Disk Bay | SATa optical | Media reader | Graphics | Display | Port dongle | Chassis intrusion switch | ENERGY Global (G) | Win7 preload | Ann date (mm/dd/yy) |
|------------|------------|-----------|--------|--------------|-----|--------------|--------------|--------------|----------|---------|------------|------------------------|----------------|-------------|----------------------|                  |
| 2742-A1U   | 4x5        | i5-3550   | 4GBx1  | 1600MHz      | 7200| Bay          | DVD±RW       | None         | HD 2500   | None    | None    | ES52                   | G P                | Pro 64      | 06/05/12              |
| 2742-B1U   | 4x5        | i5-3470   | 4GBx1  | 1600MHz      | 7200| Bay          | DVD±RW       | None         | HD 2500   | None    | None    | ES52                   | G P                | Pro 64      | 06/19/12              |
| 2742-D1U   | 4x5        | i5-3570   | 4GBx1  | 1600MHz      | 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**
Mainstream enterprise stability and manageability

**Processor**
- **Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache),** Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
- **Intel Core i5-3550 Processor (4 cores / 4 threads, 3.5GHz, 6MB cache),** Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
- **Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),** 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

**Memory**
32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

**Graphics**
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

**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**
- **Intel Q75 Express Chipset**
- Front ports: Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm), four USB 3.0, two USB 2.0, serial (9-pin), Ethernet (RJ-45), 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
- Modern: None
- Security chip: Trusted Platform Module (TPM 1.2-compliant)

**Keyboard**
Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, black, lenovo logo

**Mouse**
280 watts, autosensing, 85% PSU

**Power supply**
- **Machine:**
  - Business black color; metal case
  - 6.9”W X 17.4”D X 16.3”H
  - 175mm W X 44mm D X 414mm H
  - 24.2 lb (11.0 kg) in maximum configuration
  - Toolless cover removal, toolless adapter retention
  - Toolless disk, optical drive removal
- **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

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

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<table>
<thead>
<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>Memory</th>
<th>SATA disk GB</th>
<th>2nd Disk Bay</th>
<th>SATA optical</th>
<th>Media reader</th>
<th>Graphics</th>
<th>Display Port dongle</th>
<th>Chassis intrusion switch</th>
<th>ENERGY STAR</th>
<th>Global (G)</th>
<th>GMP (P)</th>
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<td>i5-3470</td>
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<td>G/ P</td>
<td>Win8 Pro64</td>
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<td>10/23/12</td>
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</table>

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

### Preloaded operating system

- **Some:** Windows 7 Professional 64-bit 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
  - ESET® NOD32® Antivirus (30 days of virus definitions)
  - Microsoft® Office preloaded; purchase a product key to activate
  - Skype®

### 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)

### Limited Warranty

- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available
### Memory

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<th>Capacity</th>
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<td>4GB PC3-12800 DDR3 UDIMM</td>
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<td>8GB PC3-12800 DDR3 UDIMM</td>
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More information at [www.lenovo.com/support/desktopmemorycompatibility](http://www.lenovo.com/support/desktopmemorycompatibility)

### Optical

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<tbody>
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<td>41N5618</td>
<td>09/26/06</td>
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<tr>
<td>Lenovo® Super Multi-Burner SATA Drive</td>
<td>0A65618</td>
<td>08/23/11</td>
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</table>

### Storage and removable storage

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<th>Part Number</th>
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<tbody>
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<td>43R1990</td>
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<tr>
<td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td>
<td>45J7918</td>
<td>08/19/08</td>
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<tr>
<td>180GB Solid State Drive</td>
<td>0B47308</td>
<td>01/29/13</td>
</tr>
<tr>
<td>USB 2.0 Portable 500GB Hard Disk</td>
<td>45K1690</td>
<td>05/26/09</td>
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<tr>
<td>USB 3.0 Secure 500GB Hard Drive</td>
<td>0A65619</td>
<td>11/29/11</td>
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<td>USB 3.0 Secure 750GB Hard Drive</td>
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<td>USB 3.0 Secure 1TB Hard Drive</td>
<td>0A65621</td>
<td>08/28/12</td>
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<tr>
<td>Slim USB Portable DVD Burner</td>
<td>0A33988</td>
<td>06/14/11</td>
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### Graphics

**Small 2756/2929 support Low Profile:**
- NVIDIA NVS 510 2GB Graphics Card by Lenovo 67 | 0B47077 | 01/29/13 |

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

67 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 | 06/21/05 |
- Enhanced Performance USB Keyboard | 73P2620 | 03/23/04 |
- Ultraslim Plus Wireless Keyboard and Mouse | 0A34032 | 04/05/11 |
- ThinkPad® USB Keyboard with TrackPoint | 55Y9003 | 08/18/09 |
- Lenovo USB Fingerprint Keyboard | 73P4730 | 02/22/05 |
- Lenovo USB Smartcard Keyboard | 51J0155 | 03/24/09 |

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

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

### Modem

- USB 2.0 Lenovo Modem | 43R1814 | 02/26/08 |

### Multimedia

- ThinkPad In-Ear Headphones with mic | 57Y4488 | 01/07/10 |
- Lenovo Mini Speakers M220 | 55Y2033 | 01/07/10 |
- Lenovo Speakers M520 (black) | 57Y6360 | 02/08/11 |
- Lenovo Speakers M0520 (red) | 57Y6361 | 02/08/11 |
- Lenovo Headset P550 | 55Y2065 |
- Lenovo Headset P950 (black) | 57Y6605 | 02/08/11 |

### Security

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

56 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) | 2448MB6 | 09/13/13 |
- ThinkVision L2251x Wide 22” (VGA, DP) | 2578HB6 | 10/20/09 |
- ThinkVision LT2323p Wide 23” (VGA, DP, DVI-D) | 3024HC1 | 05/01/12 |

### Monitor Accessories

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

56 Compatible on selected Lenovo and ThinkVision monitors.

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

### More information on accessories:

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

An Options Compatibility Configurator for Lenovo systems