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- **ThinkCentre M820z AIO**
  - ThinkCentre M820z AIO Platform Specifications
- **ThinkCentre M910z AIO**
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Summary of Changes

This section describes the technical changes made in this edition. This edition might also include minor corrections and editorial changes which are not identified.

September 2019 - Version 549

Additions in this update

► New product(s)
  ThinkCentre M75s SFF
  ThinkCentre M720e SFF

► New model(s)
  None

► Others
  None

Withdrawals in this update

► Withdrawn product(s)
  None

► Withdrawn model(s)
  None
## ThinkCentre M810z Platform Specifications

### Processor

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<th>Cores / Threads</th>
<th>Frequency Base/Max(GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
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<td>3.3G</td>
<td>3 MB</td>
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<td>3.5G</td>
<td>3 MB</td>
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<td>Intel G4600</td>
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<td>3 MB</td>
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<td>Core i3-6100</td>
<td>2 / 4</td>
<td>3.7G</td>
<td>3 MB</td>
<td>DDR4-2133</td>
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<tr>
<td>Core i5-6500</td>
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<td>3.2G / 3.6G</td>
<td>6 MB</td>
<td>DDR4-2133</td>
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<tr>
<td>Core i7-6700</td>
<td>4 / 8</td>
<td>4.4G / 4.0G</td>
<td>8 MB</td>
<td>DDR4-2133</td>
<td>HD 630</td>
</tr>
<tr>
<td>Core i3-7100</td>
<td>2 / 4</td>
<td>3.9G</td>
<td>3 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
<tr>
<td>Core i5-7400</td>
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<td>6 MB</td>
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<td>HD 630</td>
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<td>6 MB</td>
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<tr>
<td>Core i7-7700</td>
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<td>3.5G / 4.1G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
</tbody>
</table>

### Memory

- 32GB max, DDR4-2400, two 260-pin SO-DIMM sockets, dual-channel capable
- System clocks down for the processors with lower memory controller

### Storage

- Some: Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
- Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
- Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2
- Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.5mm)
- Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.5mm)

### Optical

- Optional 9-in-1 media card reader

### Media reader

- Some: HD Graphics 510/530/610/630 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™
- Max resolution: 4096x2304 (DP) @ 60Hz, 1920x1080 (Panel) @ 60Hz
- Some: Full HD 1080p (1920x1080) TFT color, MVA panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, support Low Blue Light Mode
- Some: Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch
- Some: Optional 1080p camera, fixed focus, with dual microphone, LED indicator, physical switch on/off
- Some: Controls
- Some: Physical buttons for Microphone mute, brightness up/down, and power on/off

### Chipset

- Some: Lenovo Calliope Keyboard (USB connector), black
- Some: Lenovo Traditional Keyboard (USB connector), black
- Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black
- Some: Lenovo Calliope Mouse (USB connector), black
- Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

### Mechanical

- Keyboard: Some: Business black color
- Mouse: Some: Tootless stand
- Some: Support VESA mount (100mm)

### Dimensions (WxDxH)

<table>
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<tr>
<th>Model</th>
<th>Max weight (lb / kg)</th>
<th>Adjustments</th>
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<tr>
<td>Without stand:</td>
<td>21.1 X 10.0 X 19.3 (inch);</td>
<td>(Touch) 18.3 / 8.3</td>
</tr>
<tr>
<td>With Basic Monitor stand:</td>
<td>21.1 X 9.6 X 17.0 (inch);</td>
<td>(Non-touch) 17.0 / 7.7</td>
</tr>
<tr>
<td>With UltraFlex II stand:</td>
<td>21.1X 10.0 X 19.3 (inch);</td>
<td>(Non-touch) 17.0 / 7.7</td>
</tr>
</tbody>
</table>

### Power supply

- 150 watts, autosensing, 85% PSU

### Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Kensington lock also locks chassis
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Optional cable lock to physically lock keyboard and mouse
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional Chassis intrusion switch

### Preload

- Preloaded operating system: Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
- Preloaded applications (only some listed): Some: Microsoft Office preloaded; purchase a product key to activate
- Some: Lenovo Companion
- Some: Only for Window 7
- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- ThinkVantage System Update
- Create Recovery Media
- Adobe® Reader®
- Cyberlink PowerDVD Create (DVD±RW)

### Environment

- EPEAT™ Gold rating (North America); ENERGY STAR® 6.1; TCO AIO Computer Certified; ErP Lot 3; GREENGUARD® certified; RoHS-compliant

### MIL-SPEC test

- MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock)

### Accessories

- For compatible accessories, please go to [http://www.lenovoupick.com](http://www.lenovoupick.com)

### See footnotes for more detailed information © Lenovo

(M810z-Spec) February 2017
**ThinkCentre M820z Platform Specifications**

**Processor**

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<th>Cores / Threads</th>
<th>Frequency Base/Max(GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
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<tbody>
<tr>
<td>Celeron G4900</td>
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<td>2 MB</td>
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<td>16 MB</td>
<td>DDR4-2400</td>
<td>UHD 610</td>
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**Memory**

32GB max (16GB SO-DIMM only available via special bid models), DDR4-2666*, two 260-pin SO-DIMM sockets, dual-channel capable

* System clocks down for the processors with lower memory controller

**Storage**

Some: Hard Drive / SATA 6.0Gbps, 2.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gbps, 2.5"
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
* 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s

Some: Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2

**Optical**

Some: DVD-ROM SATA 1.5Gbps Drive, slim (9.0mm)
Some: DVD Burner (DVD±RW), SATA 1.5Gbps Drive, slim (9.0mm)

**Media reader**

Optional 3-in-1 media card reader

**Graphics**

Intel HD Graphics 610/630 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™

Max resolution: 4096x2304 (DP) @ 60Hz, 1920x1080 (Panel) @ 60Hz

**Display**

16.9" (546.1mm) Full HD 1080p (1920x1080) TFT color

Borderless design, MVA panel, wide viewing angle (178° / 178°), LED backlight, 250 nits, 16.9 aspect ratio, 1000:1 contrast ratio, anti-glare, support Low Blue Light Mode

**Multi-touch**

Optional multi-touch, supports 10-point, AIT (Advanced In-cell Touch) technology

**Camera**

Optional 1080p camera, with dual microphone, LED indicator, physical switch on/off, supports multi-degree rotation (horizontal 0° to 180°, vertical -25° to 25°)

**Controls**

Physical buttons on side for microphone mute and power on/off

**Chipset**

Intel B360 Chipset

**Rear ports**

Four USB 3.1 Gen1 (one supports Smart Power On), one ethernet (RJ-45), one DisplayPort, one optional serial (9-pin)

**Side ports**

One USB 3.1 Gen2 (one is Always On and fast charge), one USB 3.1 Type-C Gen1, one optional card reader, one headphone / microphone combo jack (3.5mm)

**M.2 card slot**

Two M.2 Card slots (one for WLAN, one for SSD/Optane)

**Audio support**

High Definition (HD) Audio, Realtek ALC2323 / two internal speakers (2W x 2), Dolby Audio™ Premium

**WLAN**

Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2

**Ethernet**

Bluetooth™

Gigabit ethernet, Realtek RTL8111E, Wake on LAN™

**Security chip**

None

**Security features**

- Security slot (in rear for attachment of Kensington® MicroSaver® cable)
- Boot sequence control
- Kensington lock also locks chassis
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Individual USB port disabament
- Optional Chassis intrusion switch

**Keyboard**

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black
Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

**Mouse**

Some: Business black color
Some: Touchless back cover, stand, memory removal
Some: Support VESA mount (100mm)

**Dimensions (WxDxH)**

Max weight (lb / kg)

Adjustments

Without stand (No camera):

- 19.3 X 9.9 X 13.5 (inch) (Touch) 11.8 / 5.25
- 491 X 49 X 342 (mm) (Non-touch) 11.1 / 5.05

With Full Function Monitor stand (No camera):

- 19.3 X 9.9 X 14.8 to 19.1 (inch) (Touch) 15.8 / 7.18
- 491 X 252 X 377 to 486 (mm) (Non-touch) 16.9 / 7.65

With UltraFlex III stand (No camera):

- 19.3 X 9.9 X 16.4 (highest) (inch) (Touch) 17.3 / 7.85
- 491 X 252 X 416 (highest) (mm) (Non-touch) 18.5 / 7.65

Power supply:

150 watts, autosensing, 90% PSU

Limited warranty:

Some: 1-year or 3-year, depot repair service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available

Preload:

Preloaded operating system

Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Lenovo Vantage
- Microsoft Office preload; purchased a product key to activate
- Cyberlink PowerDVD (only for models with DVD / DVD+RW)
- Cyberlink Power2GO (only for models with DVDs)
- LinkedIn

Environment:

ENERGY STAR® 7.0*, EPEAT Silver rating* (*not for non-OS models), ErP Lot 3, TCO AIO Computer certified, GREENGUARD® certified, TUV Eye comfort certified, Ultra Low Noise certified (on some models), RoHS-compliant

MIL-SPEC test:

MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus)

Accessories:

For compatible accessories, please go to http://smartfind.lenovo.com

Note: The specifications above may not be available in all regions.

Lenovo, June 2019
### ThinkCentre M910z Platform Specifications

#### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency BaseMax(GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel Celeron®</td>
<td>2 / 4</td>
<td>3.7G</td>
<td>3 MB</td>
<td>DDR4-2133</td>
<td>HD 530</td>
</tr>
<tr>
<td>Intel Pentium®, or 6th / 7th Gen Intel Core™ i3 / i5 / i7 Processor</td>
<td>2 / 4</td>
<td>3.2G / 3.6G</td>
<td>6 MB</td>
<td>DDR4-2133</td>
<td>HD 530</td>
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<tr>
<td>Intel Celeron®</td>
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<td>3.4G / 4.0G</td>
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<td>DDR4-2133</td>
<td>HD 530</td>
</tr>
<tr>
<td>Intel Pentium®, or 6th / 7th Gen Intel Core™ i3 / i5 / i7 Processor</td>
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<td>3.9G</td>
<td>3 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
<tr>
<td>Intel Celeron®</td>
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<td>3.0G / 3.5G</td>
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<td>HD 630</td>
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<tr>
<td>Intel Pentium®, or 6th / 7th Gen Intel Core™ i3 / i5 / i7 Processor</td>
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<td>3.5G / 4.1G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
<tr>
<td>Intel Celeron®</td>
<td>2 / 4</td>
<td>3.6G / 4.2G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
</tbody>
</table>

#### Memory

- 32GB max, DDR4-2400*, two 260-pin SO-DIMM sockets, dual-channel capable * System clocks down for the processors with lower memory controller

#### Storage

- Some: Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
- Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
- Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2
- Some: DVD Burner (DVD+RW), SATA 1.5Gb/s Drive, slim (9.5mm)
- Some: Optional 9-in-1 media card reader

#### Optical

- Some: Intel HD Graphics 530/630 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™
- Max resolution: 4096x2304 (DP) @60Hz, 1920x1080 (Panel) @60Hz
- 23.8" (604.5mm) Full HD 1080p (1920x1080) TFT color, WVA panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, support Low Blue Light Mode, work as standalone monitor via DisplayPort (DP in / out combo)
- Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch
- Optional 1080p camera, fixed with microphone, LED indicator, physical switch on/off
- Controls for Microphone mute, monitor mode switch, brightness up/down, power on/off

#### Graphics

- Intel HD Graphics 530/630 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™

#### Display

- 23.8" (604.5mm) Full HD 1080p (1920x1080) TFT color, WVA panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, support Low Blue Light Mode, work as standalone monitor via DisplayPort (DP in / out combo)
- Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch
- Optional 1080p camera, fixed with microphone, LED indicator, physical switch on/off
- Controls for Microphone mute, monitor mode switch, brightness up/down, power on/off

#### Chipset

- Intel Q270 Chipset

#### Rear ports

- Four USB 3.1 Gen1, ethernet (RJ-45), DisplayPort in/out combo port, optional serial (9-pin)

#### Side ports

- Two USB 3.1 Gen1 (one is Always On and fast charge), optional card reader, one headphone / microphone combo jack (3.5mm), optional USB 3.1 Type-C Gen1
- Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch
- Optional 1080p camera, fixed with microphone, LED indicator, physical switch on/off
- Controls for Microphone mute, monitor mode switch, brightness up/down, power on/off

#### Audio support

- High Definition (HD) Audio, Realtek ALC233 / two internal speakers (3W x 2)
- Dolby® Audio™ certified

#### WLAN

- 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
- 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
- Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
- Intel Dual Band Wireless-AC 2825, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
- Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

#### Bluetooth

- Bluetooth 4.0, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 5.0, 5.1, 5.2, 5.3, 5.4

#### Ethernet

- Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

#### Manageability

- Intel Active Management Technology 11.0 (Intel AMT 11.0)
- Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

#### Security chip

- TPM (Trusted Platform Module) 2.0, TCG Certified
- Downgrade to TPM1.2 for the models with Win10 DG Win7 32 OS
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable;
Kensington lock also locks chassis)
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Optional cable lock to physically lock keyboard and mouse

#### Security features

- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional Chassis intrusion switch

#### Keyboard

- Lenovo Calloppo Keyboard (USB connector), black
- Lenovo Traditional Keyboard (USB connector), black
- Lenovo Calloppo Mouse (USB connector), black
- Lenovo Calloppo Wireless Mouse (2.4GHz via USB receiver), black

#### Mechanical

- Business black color
- Toolless back cover, stand, disk, memory removal
- Support VESA mount (100mm)

#### Power supply

- 150 watts, autosensing, 85% PSU

#### Limited warranty

- 1-year or 3-year, depot repair service / service upgrades available
- 1-year or 3-year, limited onsite service / service upgrades available

#### Preload

- Preloaded operating system
- Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
- Windows 10 Home 64-bit
- Windows 10 Pro 64-bit

#### Environment

- EPEAT™ Gold rating (North America); ENERGY STAR® 6.1; TCO AIO Computer Certified; ULE Gold; EPR Lot 3; GREENGUARD® certified; RoHS-compliant

#### MIL-SPEC test

- MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock)

#### Accessories

- For compatible accessories, please go to [http://www.lenovoquickpick.com](http://www.lenovoquickpick.com)
### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores/Threads</th>
<th>Frequency Base/Max(GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Celeron G4900</td>
<td>2 / 2</td>
<td>3.1G</td>
<td>2 MB</td>
<td>DDR4-2400</td>
<td>UHD 610</td>
</tr>
<tr>
<td>Celeron G4920</td>
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<td>3.2G</td>
<td>2 MB</td>
<td>DDR4-2400</td>
<td>UHD 610</td>
</tr>
<tr>
<td>Celeron G4930</td>
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<td>2 MB</td>
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<td>Celeron G4950</td>
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<td>2 MB</td>
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<td>3.8G</td>
<td>4 MB</td>
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<td>3.9G</td>
<td>4 MB</td>
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<td>UHD 610</td>
</tr>
<tr>
<td>Pentium Gold G6620</td>
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<td>4.0G</td>
<td>4 MB</td>
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<td>UHD 630</td>
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<td>Core i3-8100</td>
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<td>6 MB</td>
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<td>UHD 630</td>
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<td>Core i3-8300</td>
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<td>3.7G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>UHD 630</td>
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<tr>
<td>Core i5-8400</td>
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<td>2.8G / 4.0G</td>
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<td>Core i5-8500</td>
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<td>Core i7-6700</td>
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<td>Core i7-6900X</td>
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<td>16 MB</td>
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<td>Core i9-7900X</td>
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<tr>
<td>Core i9-9900X</td>
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<td>3.1G / 5.0G</td>
<td>16 MB</td>
<td>DDR4-2666</td>
<td>UHD 630</td>
</tr>
</tbody>
</table>

### Audio support

- High Definition (HD) Audio, Realtek ALC233 / two internal speakers (3W x 2)
- Dolby Audio™ Premium

### WLAN

- Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, Intel vPro technology support, 2x2
- Some: Bluetooth 4.2/5.0 wireless, integrated in Wi-Fi + BT combo adapter
- Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN™

### Mechanical

- Business black color
- Tactile back cover, stand, disk, memory removal
- Support VESA mount (100mm)

### Power supply

- 150 watts, autosensing, 90% PSU

### Limited warranty

- Some: 1-year or 3-year, depot repair service / service upgrades available
- Some: 3-year, limited onsite service / service upgrades available

### Preloaded operating system

- Some: Windows 10 Pro 64-bit
- Some: Windows 10 Home 64-bit

### Preloaded applications

- Lenovo Vantage
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (only for models with DVD / DVD±RW)
- Cyberlink Power2GO (only for models with DVD±RW)
- LinkedIn

### Environment

- ENERGY STAR® 7.0, EPEAT Silver rating* (*not for non-OS models), ErP Lot 3, TCO AIoC Computer certified, GREENGUARD certified, TÜV Eye comfort certified, TÜV Low Blue Light certified, TÜV Ultra Low Noise certified (on some models), RoHS-compliant

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*Note: The specifications above may not be available in all regions.*
## ThinkCentre M600 Tiny Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency (Base/Max)</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel Celeron N3050</td>
<td>2 / 2</td>
<td>1.6 / 2.16 GHz</td>
<td>2MB</td>
<td>DDR3L-1600</td>
<td>Intel HD</td>
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<td>Intel Celeron N3060</td>
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<td>1.6 / 2.48 GHz</td>
<td>2MB</td>
<td>DDR3L-1600</td>
<td>Intel HD 400</td>
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<tr>
<td>Pentium N3700</td>
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<td>1.6 / 2.94 GHz</td>
<td>2MB</td>
<td>DDR3L-1600</td>
<td>Intel HD 400</td>
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<td>1.5 / 2.64 GHz</td>
<td>2MB</td>
<td>DDR3L-1600</td>
<td>Intel HD 405</td>
</tr>
</tbody>
</table>

### Chipset

Intel Architecture (IA) SoC that integrates Intel processor core, graphics, memory controller, and I/O interfaces into a single system-on-chip solution.

### Graphics

Intel HD Graphics in processor, uses main memory, DirectX® 11.1, twoDisplayPort™, one optional 3rd DP (not support DP to HDMI dongle) or VGA, supports triple independent display.

Maximum resolution: 1920x1200(DP) @ 60Hz; 1920x1080(DP to HDMI dongle) @ 60Hz; 3840x2160(DP to HDMI dongle) @ 30Hz

### Memory

- 8GB max / DDR3 Low Voltage, DDR3L-1600
- non-polarity, one 204-pin SO-DIMM socket

### Storage

- Some: hard disk, 5400 or 7200 rpm, SATA 6.0Gb/s, 2.5" Wide
- Some: 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide

### Optical

- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
- Some: external ODD box with DVD-ROM, 9.5mm high, via USB
- Some: external ODD box with DVD+RW, 9.5mm high, via USB
- Some: external ODD box (for TIO) with DVD-ROM, 9.5mm high, via USB
- Some: external ODD box (for TIO) with DVD+RW, 9.5mm high, via USB
- SATA 6.0Gb/s controller, one connectors on planar

### Onboard SATA Media reader

- None

### Front ports

- Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

### Rear ports

- Two USB 2.0, two USB 3.0 (optional external optical box or I/O box occupies one or two specific USB on some models), ethernet (RJ-45)
- Two DisplayPort, one optional port (VGA, 3rd DP, or serial on some models), one headphone / microphone combo jack (stereo, 3.5mm)

### I/O box

- Optional external I/O box, extends two USB 2.0, two USB 3.0, and one serial on rear, two USB 2.0 on front, via USB (occupy two specific USB 3.0 of M600 Tiny)
- * Depending on many factors, actual data transfer speed may be lower than theoretical speed

### Audio support

High Definition (HD) Audio, Realtek ALC223 / optional internal speaker (1 watt)

### WLAN

- Some: 11ac wireless, M.2 Card, Realtek RTL8821AE (dual band), Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.0 combo adapter, 1x1

### Bluetooth

- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1

### Ethernet

- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8260, Wi-Fi + Bluetooth 4.0 combo adapter, 1x2

### Modem

- None

### Manageability Security chip

- None

### Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Hard disk password
- Padlock loop
- Smart USB protection, allows keyboard / mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

### Keyboard

- Some: Preferred USB Keyboard (USB connector), Lenovo logo
- Some: Lenovo USB Fingerprint Keyboard (USB connector)
- Some: Ultrasmall Plus Wireless Keyboard (2.4GHz via USB receiver, black)
- Some: Enhanced Optical USB Mouse, black, Lenovo logo
- Some: Ultrasmall Plus Wireless Mouse (2.4GHz via USB receiver, black)

### Mechanical

- ● Tiny (1L), black color, metal case

### Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Width</th>
<th>Depth</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>M600 Tiny (1L)</td>
<td>179mm</td>
<td>182.9mm</td>
<td>34.5mm</td>
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<td>M600 Tiny (1L) with VESA mount &amp; ODD box</td>
<td>188.4mm</td>
<td>185.38mm</td>
<td>63mm</td>
</tr>
<tr>
<td>M600 Tiny (1L) with VESA mount &amp; I/O box</td>
<td>188.4mm</td>
<td>185.38mm</td>
<td>66.6mm</td>
</tr>
</tbody>
</table>

### Power supply

- 65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
- 90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

### Limited warranty

- Some: 1-year or 3-year, depot service / service upgrades available
- Some: 1-year or 3-year, limited onsite service / service upgrades available
- Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available

### For Lenovo service upgrade options, please go to S-TC sheet

### Preload

- Some: Windows® 7 Professional 64
- Some: Windows 10 Home 64-bit
- Some: Windows 10 Pro 64-bit

Preloaded applications (only some listed)

- Desktop Power Manager
- Lenovo Solution Center
- Lenovo REACH-it
- Lenovo SHAREIt
- Lenovo Bluetooth Lock
- McAfee® LiveSafe® (30-day trial)
- Microsoft Office preloaded; purchase a product key to activate
- PowerDVD Create (DVD±RW)
- Cyberlink PowerDVD (DVD, DVD±RW)
- Lenovo QuickOptimizer - Only for Windows 7
- Rescue and Recovery
- Password Manager
- ThinkVantage System Update
- Lenovo Solution Center
- Adobe® Reader®

### Environment

- ENERGY STAR® 6.0*, EPEAT Gold rating* (*not for non-OS models); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

### Accessories

For compatible accessories, please go to TC-AQP sheet
<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Celeron® Processor N3000 Series or Intel Pentium® Processor N3000 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Celeron N3000 / 2 / 2 / 1.04 / 2.08 GHz / 2MB DDR3L-1600; Celeron N3010 / 2 / 2 / 1.04 / 2.24 GHz / 2MB DDR3L-1600; Intel HD 400</td>
</tr>
</tbody>
</table>

| Chipset | Intel Architecture (IA) SoC that integrates Intel processor core, graphics, memory controller, and I/O interfaces into a single system-on-chip solution |

| Graphics | Intel HD Graphics in processor, uses main memory, DirectX® 11.1, twoDisplayPort™, one optional 3rd DP (not support DP to HDMI dongle) or VGA, supports triple independent display; Maximum resolution: 3840x2160(DP)@30Hz; 1920x1200(optional VGA)@60Hz; 1920x1080(DP to VGA dongle)@60Hz; 1920x1080(DP to DVI dongle)@60Hz; 3840x2160(DP to HDMI dongle)@30Hz |

| Monitor cable | Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle |

| Memory | 8GB max / DDR3 Low Voltage, DDR3L-1600, non-parity, one 204-pin SO-DIMM socket |

| Storage | 16GB, 32GB, or 128GB M.2 Solid State Drive (SSD), SATA interface |

| Optical drive | None |

| Onboard SATA | SATA 6.0Gb/s controller, one connectors on planar |

| Front ports* | Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm) |

| Rear ports* | Two USB 2.0, two USB 3.0, ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, or serial on some models), one headphone; additional four serial (9-pin), one parallel (25-pin), and two PS/2 ports on 2L models |

| I/O box | * Depending on many factors, actual data transfer speed may be lower than theoretical speed |

| Audio support | High Definition (HD) Audio, Realtek ALC223 / optional internal speaker (1 watt) |

| WLAN™ | Some: 11ac wireless, M.2 Card, Realtek RTL8821AE (dual band), Wi-Fi + Bluetooth 4.0 combo adapter, 1x1 |

| Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1 |

| Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2 |

| Bluetooth™ | Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1 (only for 1L models) |

| Ethernet™ | Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter |

| Modem | One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN™ |

| Manageability | None |

| Security features | Trusted Platform Module, TCG 1.2-compliant |

| Security features | Administrator password |

| Security features | Hard disk password |

| Security features | Boot sequence control |

| Security features | Boot without keyboard and mouse |

| Security features | Individual USB port disablement |

| Security features | Chassis intrusion switch |

| Keyboard | Some: PS/2 Keyboard (PS/2 connector), Lenovo logo (for 2L models) |

| Mouse | Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo |

| Mouse | Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black |

| Mouse | Some: PS/2 Optical Wheel Mouse, black, Lenovo logo (for 2L models) |

| Mouse | Some: Enhanced Optical USB Mouse, black, Lenovo logo |

| Mouse | Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black |

| Mechanical | *Tiny (1L or 2L), black color, metal case |

| Power supply | 65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models) |

| Limited warranty? | Some: 1-year or 3-year, depot service / service upgrades available |

| Limited warranty? | Some: 1-year or 3-year, limited onsite service / service upgrades available |

| Limited warranty? | Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available |

| Preload | Windows Embedded Standard 7 (WES 7) |

| Preload | Windows Embedded Standard 7 V2 (WES 7 V2) |

| Preload | Windows 10 IoT Enterprise |

| Preload | LeTOS (Lenovo Terminal Operating System, Linux-based) |

| Preload | LeTOS V2 (Lenovo Terminal Operating System, Linux-based) |

| Environment | ENERGY STAR® 6.0, EPEAT™ Gold rating* (*not for non-OS models); GREENGUARD™; RoHS-compliant; Cisco EnergyWise compatible; EiP Lot 3 |

| Accessories | For compatible accessories, please go to TC-AQP sheet |

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Note: The specifications above may not be available in all regions.
## ThinkCentre M625 Tiny Platform Specifications

### Processor
<table>
<thead>
<tr>
<th>APU</th>
<th>Cores</th>
<th>Frequency Base/Max</th>
<th>L2 Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>A9-9420e</td>
<td>2</td>
<td>1.8 / 2.7 GHz</td>
<td>1 MB</td>
<td>DDR4-1866</td>
<td>Radeon R5 Series</td>
</tr>
</tbody>
</table>

### Memory
- 8GB max, DDR4-2666, one 260-pin SO-DIMM socket
- System frequency automatically clocks down for the lower capability of memory controller in processor

### Disk
- Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
- Some: 128GB M.2 Solid State Drive (SSD) / PCIe NVMe interface
- Some: 256GB M.2 Solid State Drive (SSD) / PCIe NVMe interface

### Optical Onboard SATA Media reader
- None

### Graphics
- AMD Radeon™ Graphics in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional port (VGA or USB 2.0 Type-C with DisplayPort Alternate Mode), supports up to 2 independent displays:
  - Max resolution: 3840x2160 (DP) @60Hz; 2048x1280 (VGA) @60Hz;
  - 3840x2160 (USB 2.0 Type-C) @60Hz

### Monitor cable
- Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

### Chipset
- AMD SoC platform

### Front ports
- Two USB 3.1 Gen1 (one is Always On and fast charge), one microphone (3.5mm), one headphone / microphone combo jack (3.5mm)

### Rear ports
- One USB 3.1 Gen1, three USB 2.0, ethernet ( RJ-45), two DisplayPort, two optional ports (Port 1 for VGA / serial / USB 2.0 Type-C (with DisplayPort Alternate Mode), Port 2 for serial)
  - * Depending on many factors, actual data transfer speed may be lower than theoretical speed

### Audio support
- High Definition (HD) Audio, Realtek ALC233-VB2-CG / internal speaker (1.5 watt)

### WLAN™
- Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 2x2

### Bluetooth™
- Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 2x2

### Ethernet Modem
- Gigabit ethernet, Realtek RTL8111HN, Wake on LAN®

### Environment
- ENERGY STAR® 6.1*, EPEAT™ Silver rating® (*Not for non-OS models), ErP Lot 3, RoHS-compliant, WEEE, TCO

### MIL-SPEC test

### Accessories
- For compatible accessories, please go to http://smartfind.lenovo.com

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### Keyboard Mouse
- Some: Fullsize USB Keyboard (USB connector), black, Lenovo logo
- Some: USB Optical Wheel Mouse, black, Lenovo logo

### Mechanical
- Tiny (1L), black color; metal case
  - Toolless chassis open (for models with optional toolless chassis screw)
  - Toolless HDD, SSD, memory, Wi-Fi removal
  - Optional dust filter

### Power supply
- 65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

### Limited warranty
- Some: 1-year, depot service / service upgrades available
- Some: 1-year, limited onsite service / service upgrades available

### Preload
- Preloaded operating system
  - Some: Windows 10 Pro 64-bit
  - Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit

### Preloaded applications (only some listed)
- Windows 10 only
  - Lenovo Vantage
  - LinkedIn
  - Microsoft Office preloaded; purchase a product key to activate
  - Windows 7 only
  - Lenovo Solution Center
  - Lenovo System Update
  - Factory Recovery
  - User Guide Viewer
  - Microsoft Office preloaded; purchase a product key to activate
  - Adobe® Reader®

### Environment
- ENERGY STAR® 6.1*, EPEAT™ Silver rating® (*Not for non-OS models), ErP Lot 3, RoHS-compliant, WEEE, TCO

### MIL-SPEC test

---

* Depending on many factors, actual data transfer speed may be lower than theoretical speed

**Win 10 RS3 and Win10 earlier version only support Bluetooth 4.1

11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 2x2

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 2x2

Some: Bluetooth 4.2* wireless, integrated in Wi-Fi + BT combo adapter

Win 10 RS3 and Win10 earlier version only support Bluetooth 4.1

Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 2x2

Some: Bluetooth 4.2* wireless, integrated in Wi-Fi + BT combo adapter

Some: Bluetooth 4.2* wireless, integrated in Wi-Fi + BT combo adapter

* Win 10 RS3 and Win10 earlier version only support Bluetooth 4.1

Two USB 3.1 Gen1 (one is Always On and fast charge), one microphone (3.5mm), one headphone / microphone combo jack (3.5mm)

Three USB 2.0, ethernet ( RJ-45), two DisplayPort, two optional ports (Port 1 for VGA / serial / USB 2.0 Type-C (with DisplayPort Alternate Mode), Port 2 for serial)

Some: Bluetooth 4.2* wireless, integrated in Wi-Fi + BT combo adapter

* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
ThinkCentre M625 Tiny Thin Client Platform Specifications

Product Specifications Reference (PSREF)

Processor
- AMD E2 series APU
  - APU Cores Frequency
  - L2 Cache
  - Memory Support (Up to)
- Integrated Graphics
- AMD E2-9000e
  - 2
  - 1.5 / 2.0 GHz
  - 1 MB
  - DDR4-1866
  - Radeon R2 Series

Memory
- 8GB max, DDR4-2666, one 260-pin SO-DIMM socket
- System frequency automatically clocks down for the lower capability of memory controller in processor

Disk
- 32GB M.2 Solid State Drive (SSD) / SATA interface
- 128GB M.2 Solid State Drive (SSD) / PCIe NVMe interface

Optical Onboard SATA Media reader
- None
- one SATA 6.0Gb/s connector on planar

Graphics
- AMD Radeon™ Graphics in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional port (VGA or USB 2.0 Type-C with DisplayPort Alternate Mode), supports up to 2 independent displays;
- Max resolution: 3840x2160 (DP)@60Hz; 2048x1280 (VGA)@60Hz;
- 3840x2160 (USB 2.0 Type-C)@60Hz
- Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Monitor cable
- None

Chipset
- AMD SoC platform

Front ports*
- Two USB 3.1 Gen1 (one is Always On and fast charge), one microphone (3.5mm), one headphone / microphone combo jack (3.5mm)

Rear ports*
- One USB 3.1 Gen1, three USB 2.0, ethernet (RJ-45), two DisplayPort, two optional ports (Port 1 for VGA / serial / USB 2.0 Type-C (with DisplayPort Alternate Mode), Port 2 for serial)
  - * Depending on many factors, actual data transfer speed may be lower than theoretical speed

I/O box
- None

Audio support
- High Definition (HD) Audio, Realtek ALC233-VB2-CG / internal speaker (1.5 watt)

WLAN
- Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2™ combo adapter, 1x1
  - Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.2™ combo adapter, 1x1
  - Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2™ combo adapter, 2x2
  - Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.2™ combo adapter, 2x2
  - * Win 10 RS3 and Win10 earlier version only support Bluetooth 4.1

Bluetooth™
- Some: Bluetooth 4.2™ wireless, integrated in Wi-Fi + BT combo adapter

Ethernet Modem
- Gigabit ethernet, Realtek RTL8111HN, Wake on LAN®

Manageability
- None
- Security TPM 2.0, TCG Certified

Security chip
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power-on password

Security features
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard
- Some: Fullsize USB Keyboard (USB connector), black, Lenovo logo

Mouse
- Some: USB Optical Wheel Mouse, black, Lenovo logo

Mechanical
- Tiny (1L), fan-less design, black color, metal case
  - Toolless chassis open (for models with optional toolless chassis screw)
  - Toolless SSD, memory, Wi-Fi removal

M625 Tiny Thin Client only:
  - 7.05" W X 7.20" D X 1.36" H
  - 179mm W X 182.9mm D X 34.5mm H
  - 2.9 lb (1.3 kg), weight may vary by configuration

VESA mount
- Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand
- Optional system floor stand for vertical orientation

Power supply
- 65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty
- Some: 1-year, depot service / service upgrades available
  - Some: 1-year, limited onsite service / service upgrades available

Preload
- Preloaded operating system
  - Some: Windows Embedded Standard 7 V2 (WES 7 V2)
  - Some: Windows 10 IoT Enterprise
  - Some: LeTOS V2 (Lenovo Terminal Operating System, Linux-based)

Environment
- ENERGY STAR® 6.1*, EPEAT™ Silver rating* (*Not for non-OS models), ErP Lot 3, RoHS-compliant, WEEE, TCO

MIL-SPEC test

Accessories
- For compatible accessories, please go to http://smartfind.lenovo.com

Lenovo, May 2018
## ThinkCentre M630e Tiny Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency Base/Max(GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentium Gold 5405U</td>
<td>2 / 4</td>
<td>2.3G</td>
<td>2 MB</td>
<td>DDR4-2133</td>
<td>UHD 610</td>
</tr>
<tr>
<td>Core i3-8145U</td>
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<td>2.1G / 3.9G</td>
<td>4 MB</td>
<td>DDR4-2400</td>
<td>UHD 620</td>
</tr>
<tr>
<td>Core i5-8265U</td>
<td>4 / 6</td>
<td>1.6G / 3.9G</td>
<td>6 MB</td>
<td>DDR4-2400</td>
<td>UHD 620</td>
</tr>
</tbody>
</table>

### Memory

- 16GB max, DDR4-2666, one 260-pin SO-DIMM sockets, non-ECC
- * System automatically clocks down for the processors with lower memory controller

### Storage

- Some: Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
- Some: M.2 SSD (2280) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
- Some: M.2 SSD (2242) / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s
- One on board SATA 6.0Gb/s controller

### Onboard Sata

- Intel SoC (System on Chip) platform

### Graphics

- Intel HD Graphics 610/620 in processor, uses main memory, DirectX® 12, one DisplayPort™, one HDMI, up to 2 independent displays;
- Max resolution: 4096x2304 (DP) @60Hz; 4096x2304 (HDMI) @24Hz
- Optional DP to VGA dongle or DP to HDMI 1.4 dongle

### Monitor cable

- None

### Chipset

- Intel SoC (System on Chip) platform

### Front ports* (Std.)

- One USB 3.1 Gen1, one USB 3.1 Type-C Gen 1, one microphone (3.5mm), one headphone / microphone combo jack (3.5mm)

### Rear ports* (Opt.)

- Two USB 3.1 Gen1, two USB 2.0, one ethernet (RJ-45), one DisplayPort, one HDMI

### Audio support

- Realtek ALC233VB / internal speaker (1.5 watt)

### WLAN

- Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2

### Bluetooth

- Some: Bluetooth 4.2 wireless, integrated in Wi-Fi + BT combo adapter

### Ethernet

- Gigabit ethernet, Realtek RTL8111HN-CG

### Security chip

- None

### Security features

- Firmware TPM 2.0, integrated in chip
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Chassis intrusion switch
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices

### Keyboard

- Some: Lenovo Calliope Keyboard (USB connector), black
- Some: Lenovo Calliope Mouse (USB connector), black

### Mechanical

- Tiny (1L), black color; metal case
- Optional dust filter
- One 2.5" bay for HDD/SSD, two M.2 slots (one for WLAN, one for M.2 SSD)

### Dimensions (WxDxH)

- Tiny only
  - 7.05" X 7.20" X 1.36"
  - 179mm X 182.9mm X 34.5mm

### Weight (Approx.)

- 2.91 lb (1.32 kg), vary by config

### Power supply

- Some: 65 watts adapter, autosensing, 88% PSU

### Preload

- Preloaded operating system
  - Some: Windows® 10 Pro 64-bit
  - Some: Windows Home 64-bit

- Preloaded applications (only some listed)
  - Lenovo Vantage
  - Microsoft Office preloaded;
    purchase a product key to activate
  - LinkedIn

### Environment

- ENERGY STAR® 7.0, EPEAT Silver rating, ErP Lot 3, TCO, RoHS-compliant, WEEE, REACH

### MIL-SPEC test

- Coming soon

### Accessories

- For compatible accessories, please go to [http://smartfind.lenovo.com](http://smartfind.lenovo.com)

**Note:** The specifications above may not be available in all regions.

Lenovo, Mar 2019
Intel® Celeron®, Intel Pentium®, or 6/7th Generation Intel Core™ i3 / i5 / i7 Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency Base/Max(GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentium G4400</td>
<td>2 / 2</td>
<td>3.3G</td>
<td>3 MB</td>
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<td>HD 610</td>
</tr>
<tr>
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<td>3 MB</td>
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<td>HD 630</td>
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<tr>
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<td>3.7G</td>
<td>3 MB</td>
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<tr>
<td>Core i3-6500</td>
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<td>3.2G / 3.6G</td>
<td>8 MB</td>
<td>DDR4-2133</td>
<td>HD 630</td>
</tr>
<tr>
<td>Core i7-6700</td>
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<td>3.4G / 4.0G</td>
<td>8 MB</td>
<td>DDR4-2133</td>
<td>HD 630</td>
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<tr>
<td>Core i3-7100</td>
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<td>3.9G</td>
<td>3 MB</td>
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<td>HD 630</td>
</tr>
<tr>
<td>Core i5-7400</td>
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<td>HD 630</td>
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<tr>
<td>Core i5-7600</td>
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<td>3.5G / 4.1G</td>
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<td>HD 630</td>
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<tr>
<td>Core i7-7700</td>
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<td>3.6G / 4.2G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
</tbody>
</table>

Memory
64GB max, UDIMM, DDR4-2400, four 288-pin DIMM sockets, non-ECC, dual-channel capable*
* System automatically clocks down for the processors with lower memory controller.

Storage
Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" or 3.5"
Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2
Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)

Optical
Optional 7-in-1 media reader

Onboard SATA Media reader
Three onboard SATA 6.0Gb/s connectors

Graphics
Intel HD Graphics 510/530/610/630 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™, supports 3 independent displays, works along with discrete graphics to support more displays;
Max resolution: 4096x2304 (DP) @ 60Hz; 2048x1536 (VGA) @ 50Hz
Some: NVIDIA GeForce® GT 730, DirectX 12, 2GB, PCIe 2.0 x8 adapter, two DisplayPort, 35 watts;
Max resolution: 3840x2160 (DisplayPort) @ 60Hz;
Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

Chipset
Intel B250 Chipset

Front ports*
Four USB 3.1 Gen1, optional two USB 3.1 Type-C Gen 2 (only available via special bid), microphone (3.5mm), headphone (3.5mm)
Rear ports*
Two USB 3.1 Gen1, two USB 2.0, optional two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, two PS/2 ports (keyboard/mouse);
additional DisplayPort on optional graphics on some models
Rear audio ports* Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394* None

* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support
High Definition (HD) Audio, Realtek ALC862 / optional internal speaker (1.5 watt )

WLAN
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

Environment
ENERGY STAR® 6.1, EPEAT™ Gold rating (North America), ErP Lot 3, GREENGUARD®, RoHS-compliant, TÜV low noise verified (on some models)

Management
TPM (Trusted Platform Module) 2.0, TCG Certified

Security chip
None

For compatible accessories, please go to http://www.lenovoquickpick.com

Note: The specifications above may not be available in all regions.
Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency Base/Max(GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentium G4400T</td>
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<td>2.9G</td>
<td>3 MB</td>
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<td>HD 510</td>
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<td>3 MB</td>
<td>DDR4-2400</td>
<td>HD 610</td>
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<tr>
<td>Pentium G4600T</td>
<td>2 / 4</td>
<td>3.0G</td>
<td>3 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
<tr>
<td>Core i3-6100T</td>
<td>2 / 4</td>
<td>3.3G</td>
<td>3 MB</td>
<td>DDR4-2133</td>
<td>HD 530</td>
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<tr>
<td>Core i5-6500T</td>
<td>4 / 8</td>
<td>2.5G / 3.1G</td>
<td>8 MB</td>
<td>DDR4-2133</td>
<td>HD 630</td>
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<tr>
<td>Core i7-6700T</td>
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<td>2.85 / 3.6G</td>
<td>8 MB</td>
<td>DDR4-2133</td>
<td>HD 530</td>
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<tr>
<td>Core i3-7100T</td>
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<td>3 MB</td>
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<td>HD 630</td>
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<td>Core i5-7400T</td>
<td>4 / 4</td>
<td>2.4G / 3.0G</td>
<td>6 MB</td>
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<td>HD 630</td>
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<tr>
<td>Core i5-7500T</td>
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<td>2.7G / 3.3G</td>
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<td>Core i5-7600T</td>
<td>4 / 4</td>
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<td>Core i7-7700T</td>
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<td>2.9G / 3.8G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
</tbody>
</table>

Memory

32GB max, DDR4-2400*, two 260-pin SO-DIMM sockets, non-ECC, dual-channel capable * System automatically clocks down for the processors with lower memory controller

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black
Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Mouse

Tiny (1L), black color; metal case
- Tioless chassis open
- Tioless HDD, SSD, memory removal
- Optional toolless chassis screw
- Optional dust filter

Optical

Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2

Graphics

Intel HD Graphics 510/530/610/630 in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional video port (HDMI, VGA, 3rd DP, or USB 3.1 Type-C with DisplayPort Alternate Mode), up to 3 independent displays;

Max resolution: 4096x2304 (DP)@60Hz; 4096x2304 (Type-C)@60Hz; 4096x2160 (HDMI)@24Hz; 1920x1200 (VGA)@60Hz

Monitor cable

Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

Chipset

Intel B250 Chipset

Front ports*

Two USB 3.1 Gen1 (one is Always On and fast charge), one microphone (3.5mm), one headphone / microphone combo jack (3.5mm)

Rear ports*

Four USB 3.1 Gen1 (optional external optical box or external I/O box occupies one or two specific USB 3.1 Gen1 on some models), ethernet (RJ-45), two DisplayPort, two optional ports (Port 1 for VGA / 3rd DP / HDMI / serial / USB 3.1 Type-C Gen 1 with DisplayPort Alternate Mode), Port 2 for serial

I/O box*

Optional external I/O box, extends two USB 2.0, two USB 3.1 Gen1, and one serial on rear, two USB 2.0 on front, via USB cable (occupy two specific USB 3.1 Gen1 of Tiny)

* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support

High Definition (HD) Audio, Realtek ALC294 / optional internal speaker (1w or 2w)

WLAN™

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.1 combo adapter, 1x1

Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet Modem

Gigabit ethernet, Intel Ethernet Connection I219-V (Jacksonville), Wake on LAN™

Manageability

None

Security chip

None

TPM (Trusted Platform Module) 2.0*, TCG Certified

* Downgrade to TPM1.2 for the models with Win10 DG Win7 32 OS

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

Limited warranty*

Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit (not available with 7th Gen Intel processor)

Some: Windows 10 Pro 64-bit

Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Microsoft Office preloaded;
- purchase a product key to activate

- Only for Window 10
- Lenovo Companion
- Only for Window 7
- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- Create Recovery Media
- Adobe® Reader
- Lenovo Link; PowerDVD Create (DVDxRW)

Environment

ENERGY STAR® 6.1, EPEAT® Gold rating (North America), ErP Lot 3, GREENGUARD®, RoHS-compliant, TUV low noise verified (on some models)

MIL-SPEC test

MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus, Solar Radiation)

Accessories

For compatible accessories, please go to http://www.lenovouspick.com

See footnotes for more detailed information

© Lenovo (M710 Tiny-Spec) February 2017
### ThinkCentre M710 Tower Platform Specifications

#### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency Base/Max(GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentium G4400</td>
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<td>3.3G</td>
<td>3 MB</td>
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<td>HD 510</td>
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<td>HD 610</td>
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<td>Pentium G4600</td>
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<td>3.6G</td>
<td>3 MB</td>
<td>DDR4-2200</td>
<td>HD 630</td>
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<td>Core i3-6100</td>
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<td>HD 510</td>
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<td>Core i5-6500</td>
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<td>HD 530</td>
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<tr>
<td>Core i7-6700</td>
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<td>3 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
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<tr>
<td>Core i5-7400</td>
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<td>3.0G / 3.5G</td>
<td>6 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
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<td>Core i5-7500</td>
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<td>3.4G / 3.8G</td>
<td>6 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
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<tr>
<td>Core i7-7700</td>
<td>4 / 8</td>
<td>3.6G / 4.2G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
</tbody>
</table>

#### Memory

- 64GB max, UDIMM, DDR4-2400³, four 288-pin DIMM sockets, non-ECC, dual-channel capable
- System automatically clocks down for the processors with lower memory controllers

#### Storage

- Some: Hard Drive / SATA 6.0Gb/s, 2.5", 5.4K rpm or 7200 rpm
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" (SSD read speed 550 Mb/s, SSD write speed 510 Mb/s)
- Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
- Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2
- Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)
- Some: Three onboard SATA 6.0Gb/s connectors
- Optional: 7-in-1 media reader

#### Optical

- Some: Intel HD Graphics 510/530/610/630 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™, supports 3 independent displays, works along with discrete graphics to support more displays;
- Max resolution: 4096x2304 (DP) @ 60Hz, 2048x1536 (VGA) @ 50Hz
- Some: NVIDIA GeForce® GT 730, DirectX 12, 2GB, PCIe 2.0 x8 adapter, two DisplayPort, 35 watts;
- Max resolution: 3840x2160 (DisplayPort) @ 60Hz;
- Some: AMD Radeon™ R7 370, DirectX 11, 2GB, PCIe 3.0 x8 adapter, one VGA, one HDMI, 75 watts, occupies two slots;
- Max resolution: 4096x2160 (HDMI) @ 24Hz, 2048x1536 (VGA) @ 85Hz
- Optional: DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

#### Monitor Cable

- Intel B250 Chipset

#### Front ports

- Four USB 3.1 Gen1, optional two USB 3.1 Type-C Gen 2 (only available via special bid), microphone (3.5mm), headphone (3.5mm)

#### Rear ports

- Two USB 3.1 Gen1, two USB 2.0, optional two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, two PS/2 ports (keyboard/mouse);
- Additional VGA, DisplayPort, or HDMI on optional graphics on some models
- Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)
- None

#### Audio support

- High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt )

#### WLAN

- Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

#### Bluetooth

- Some: Bluetooth 4.1 wireless, integrated in Wi-Fi + BT combo adapter

#### Ethernet

- Gigabit ethernet, Realtek RTL8111GN, Wake on LAN®

#### Modem

- None

#### Security chip

- TPM (Trusted Platform Module) 2.0, TCG Certified
- * Downgrade to TPM1.2 for the models with Win10 DG Win7 32 OS
- Security features:
  - Security slot (in rear for optional Kensington® MicroSaver® cable)
  - Padlock loop
  - Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
  - Optional cable lock to physically lock both keyboard and mouse
- Security features:
  - Power-on password
  - Administrator password
  - Hard disk password
  - Boot sequence control
  - Boot without keyboard and mouse
  - Individual USB port disablement
  - Optional chassis intrusion switch

#### Keyboard

- Some: Lenovo Calliope Keyboard (USB connector), black
- Some: Lenovo Traditional Keyboard (USB connector), black
- Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black
- Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

#### Mechanical

- Tower (15L), black color, metal case
- (WxDxH): 5.7” x 11.5” x 14.4”; 145mm x 292.7mm x 366mm
- Approx. 14.3 lb (6.5 kg), weight may vary by configuration
- Optional: dual filter
- Bay 1: Slim external ODD bay
- Bay 2: 3.5”, 1” high, internal, HDD/SSD
- Bay 3: 3.5”, 1” high, internal, HDD/SSD
- Slot 1: half-length full-height (length < 189mm, height < 104mm), PCIe 3.0 x16
d- Slot 2: half-length full-height (length < 189mm, height < 104mm), PCIe 3.0 x1
- Slot 3: half-length full-height (length < 189mm, height < 104mm), PCIe 3.0 x1
- Slot 4: no slot, only bracket for optional port extension* M.2 card slots: Two (one for WLAN, one for SSD/Opante)
- * Optional 2 front USB3.1 Type-C ports module occupies PCIe x16 slot (x4 card), optional rear 2x USB2.0 / parallel occupies one expansion slot

#### Power supply

- Some: 180 watts, autosensing, 85% PSU
- Some: 210 watts, autosensing, 92% PSU (only available via special bid)

#### Limited warranty

- Some: 1-year or 3-year, depot service / service upgrades available
- Some: 1-year or 3-year, limited onsite service / service upgrades available

#### Preload

- Preloaded operating system:
  - Windows 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
  - Not available with 7th Gen Intel processor
  - Windows 10 Pro 64-bit
  - Windows 10 Home 64-bit

- Preloaded applications (only some listed):
  - Microsoft Office preloaded; purchase a product key to activate
  - Only for Window 10
  - Lenovo Companion
  - Only for Window
  - Lenovo Solution Center
  - Lenovo ThinkVantage Tools
  - Create Recovery Media
  - Adobe® Reader®
  - Cyberlink PowerDVD Create (DVD±RW)
  - ENERGY STAR® 6.1, EPEAT™ Gold rating (North America), ErP Lot 3, GREENGUARD®, RoHS-compliant, TUV low noise verified (on some models)

#### Accessories

- For compatible accessories, please go to [http://www.lenovoquickpick.com](http://www.lenovoquickpick.com)

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Note: The specifications above may not be available in all regions.
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<th>Integrated Graphics</th>
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<tr>
<td>Celeron G5900</td>
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<td>3.2G</td>
<td>6 MB</td>
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<td>HD 630</td>
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<tr>
<td>Core i7-6700</td>
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<td>4.0G</td>
<td>8 MB</td>
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<td>HD 630</td>
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<tr>
<td>Core i3-7100</td>
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<td>3 MB</td>
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<td>Core i5-7400</td>
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<td>HD 630</td>
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<td>Core i5-7500</td>
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<td>3.4G</td>
<td>6 MB</td>
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<td>HD 650</td>
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<td>Core i5-7600</td>
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<td>3.5G</td>
<td>6 MB</td>
<td>DDR4-2400</td>
<td>HD 650</td>
</tr>
<tr>
<td>Core i7-7700</td>
<td>4 / 8</td>
<td>3.6G</td>
<td>8 MB</td>
<td>DDR4-2133</td>
<td>HD 630</td>
</tr>
</tbody>
</table>

**Security features**

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Optional smart card clip to physically lock both keyboard and mouse
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

**Keyboard**

- Some: Lenovo Calliope Keyboard (USB connector), black
- Some: Lenovo Traditional Keyboard (USB connector), black
- Some: Lenovo Calliope Mouse (USB connector), black
- Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black

**Mechanical**

- Some: SFF (7.4L), black color, metal case
- Some: (Wx Dx H) 3.9" x 11.9" x 10.8"; 100mm X 303.5mm X 273.5mm
- Some: Approx. 9.37 lb (4.25 kg), weight may vary by configuration
- Bay 1: Slim external ODD bay
- Bay 2: 3.5" 1" high, internal, supports 2.5" or 3.5" HDD/SSD (2.5 to 3.5 bracket comes with disk)
- Slot 1: low-profile (length < 152mm, height < 64mm), PCIe 3.0 x 16"
- Slot 2: low-profile (length < 152mm, height < 64mm), PCIe 3.0 x 16"
- M.2 card slots: one for SSD
- Optional rear 2x USB2.0 / parallel occupies one expansion slot
- Optional system floor stand for vertical orientation

**Floor Stand**

- (WxDxH) 7.7" x 15.4" x 19.7"; 195mm X 393mm X 500mm
- Cross weight (approx.) 14.22 lb (6.45 kg)

**Power supply**

- Some: 180 watts, autosensing, 85% PSU

**Limited warranty**

- Some: 1-year or 3-year, depot service / service upgrades available
- Some: 1-year or 3-year, limited onsite service / service upgrades available

**Environment**

- ENERGY STAR® 6.1, EPEAT Silver rating (North America), ELP Lot 3, RoHS-compliant, WEEE

**Accessories**

For compatible accessories, please go to [http://www.lenovoquickpick.com](http://www.lenovoquickpick.com)

Note: The specifications above may not be available in all regions.
### Processor

<table>
<thead>
<tr>
<th>APU / processor</th>
<th>Cores / Threads</th>
<th>Frequency (Base/Max)</th>
<th>L2 Cache</th>
<th>Integrated Graphics</th>
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<td>3.8 / 4.2</td>
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<td>Radeon R7 Series</td>
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</table>

### Memory
- 64GB max, UDIMM, DDR4-2400, four 288-pin DIMM sockets, non-ECC, dual-channel capable
- System automatically clocks down for the processors with lower memory controller performance

### Storage
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" or 3.5"
- Some: DVD-ROM SATA 1.5Gb/s Drive, slim, 9.0mm

### Optical
- Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim, 9.0mm

### Onboard SATA Media reader
- Optional 7-in-1 media reader

### Graphics
- AMD Radeon™ Graphics in processor (not for AMD Ryzen processor), uses main memory, DirectX® 12, one VGA, two DisplayPort™ (Onboard VGA and DP ports are invalid on the models with AMD Ryzen processor), supports 3 independent displays, works along with AMD discrete graphics to support more displays;
  - **Max resolution:** 4096x2160 (DP) @60Hz; 1920x1200 (VGA) @60Hz
  - Some: NVIDIA GeForce® GT 730, DirectX 12, 2GB, PCIe 2.0 x8 adapter, two DisplayPort, 35 watts; Max resolution: 3840x2160 (DisplayPort) @60Hz;
  - Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

### Chipset
- AMD B350 Chipset

### Preload
- **Preloaded operating system**
  - Some: Windows 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit (only available with Pro A6/A10/A12-6xxx APUs)
  - Some: Windows 10 Home 64-bit

- **Preloaded applications (only some listed)**
  - Microsoft Office preloaded;
  - purchase a product key to activate
  - Only for Windows 10
  - Lenovo Companion
  - Only for Windows 8
  - Lenovo Solution Center
  - Lenovo ThinkVantage Tools
  - Create Recovery Media
  - Adobe® Reader®
  - Cyberlink PowerDVD Create (DVD±RW)

### Environment
- ENERGY STAR® 6.1, EPEAT® Gold rating (North America), ErP Lot 3, GREENGUARD®, RoHS-compliant

### Accessories
- For compatible accessories, please go to [http://www.lenovoquickpick.com](http://www.lenovoquickpick.com)

### Security features
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Padlock loop
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

### Mechanical
- SFF (9.4L), black color; metal case
- (WxDxH) 3.6" x 11.4" x 13.5"; 92.5mm x 290.5mm x 343.5mm
- Approx. 13.2 lb (6.0 kg), weight may vary by configuration
- Toolless cover, disk, optical removal
- Optional dust filter
- Bay 1: Slim external ODD bay
- Bay 2: 3.5" internal, HDD/SSD
- Bay 3: 2.5" internal, HDD/SSD (bay only comes with 2.5" 2nd disk)
- Slot 1: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x16
- Slot 2: low-profile (length < 150mm, height < 68mm), PCIe 2.0 x1
- Slot 3: low-profile (length < 150mm, height < 68mm), PCIe 2.0 x1
- Slot 4: no slot, only bracket for optional port extension
- M.2 card slots: two (one for WLAN, one for SSD)
- * Optional front USB3.1 Type-C x2 module occupies PCIe x16 slot (x4 card), optional rear 2x USB2.0 / parallel / 2nd serial occupies one expansion slot
- Optional system floor stand for vertical orientation

### Power supply
- Some: 180 watts, autosensing, 85% PSU
- Some: 210 watts, autosensing, 85% PSU
- Some: 210 watts, autosensing, 92% PSU (only available via special bid)

### Limited warranty
- Some: 1-year or 3-year, depot service / service upgrades available
- Some: 1-year or 3-year, limited onsite service / service upgrades available

### Manageability
- DASH
- TPM (Trusted Platform Module) 2.0, TCG Certified
  - * Downgrade to TPM1.2 for the models with Win10 DG Win7 32 OS

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Note: The specifications above may not be available in all regions.

Lenovo, July 2017
### ThinkCentre M715 Tiny (2nd Gen) Platform Specifications

#### Processor
- **AMD Athlon, A6, A10, A12, or Ryzen processor**

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores/Threads</th>
<th>Frequency Base/Max</th>
<th>L2/L3 Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athlon 200GE</td>
<td>2/4</td>
<td>3.2 GHz 1 MB / 4 MB</td>
<td>DDR4-2933</td>
<td>Radeon Vega 3</td>
<td></td>
</tr>
<tr>
<td>Athlon PRO 200GE</td>
<td>2/4</td>
<td>3.2 GHz 1 MB / 4 MB</td>
<td>DDR4-2933</td>
<td>Radeon Vega 3</td>
<td></td>
</tr>
<tr>
<td>PRO A6-8570E</td>
<td>2/2</td>
<td>3.0 / 3.4 GHz 1 MB</td>
<td>DDR4-2400</td>
<td>Radeon R5</td>
<td></td>
</tr>
<tr>
<td>PRO A10-8770E</td>
<td>4/4</td>
<td>2.8 / 3.5 GHz 2 MB</td>
<td>DDR4-2400</td>
<td>Radeon R7</td>
<td></td>
</tr>
<tr>
<td>PRO A6-9500E</td>
<td>2/2</td>
<td>3.0 / 3.4 GHz 1 MB</td>
<td>DDR4-2400</td>
<td>Radeon R5</td>
<td></td>
</tr>
<tr>
<td>PRO A10-9700E</td>
<td>4/4</td>
<td>3.0 / 3.5 GHz 2 MB</td>
<td>DDR4-2400</td>
<td>Radeon R7</td>
<td></td>
</tr>
<tr>
<td>PRO A12-9800E</td>
<td>4/4</td>
<td>3.1 / 3.8 GHz 2 MB</td>
<td>DDR4-2400</td>
<td>Radeon R7</td>
<td></td>
</tr>
<tr>
<td>Ryzen 3 2200GE</td>
<td>4/4</td>
<td>3.2 / 3.8 GHz 2 MB / 4 MB</td>
<td>DDR4-2933</td>
<td>Radeon R7</td>
<td></td>
</tr>
<tr>
<td>Ryzen 3 2400GE</td>
<td>4/8</td>
<td>3.2 / 3.8 GHz 2 MB / 4 MB</td>
<td>DDR4-2933</td>
<td>Radeon RX Vega 8</td>
<td></td>
</tr>
<tr>
<td>Ryzen 5 PRO 2400GE</td>
<td>4/8</td>
<td>3.2 / 3.8 GHz 2 MB / 4 MB</td>
<td>DDR4-2933</td>
<td>Radeon RX Vega 8</td>
<td></td>
</tr>
</tbody>
</table>

#### Memory
- 32GB max, DDR4 2666*, two 260-pin SO-DIMM sockets, dual-channel capable
- System automatically clocks down for the lower memory controller

#### Disk
- **Some:** Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm
- **Some:** Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
- **Some:** M.2 SSD / PCIe NVMe, PCIe 3.0 x 4*, 32Gb/s
- **Some:** 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s

#### Optical
- **Some:** DVD-ROM, 9.0mm high, via USB external ODD box
- **Some:** DVD±RW, 9.0mm high, via USB external ODD box

#### Onboard SATA
- One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

#### Graphics
- **AMD Radeon™ Graphics** in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional port (HDMI, VGA, or 3rd DP), supports 3 independent displays (supports max HDMI/DVI display when using HDMI port or DP to DVI/HDMI dongle, and Athlon / Athlon PRO only support 2 displays); Max resolution: 4096x2160 (DP) @ 60Hz; 4096x2160 (HDMI) @ 30Hz; 1920x1200 (VGA) @ 60Hz

#### Monitor cable
- Optional DP to VGA dongle, DP to DVI-D dongle, or DP to HDMI 1.4 dongle

#### Chipset
- **AMD B300 Chipset**

#### Front ports* (Std.)
- Two USB 3.1 Gen1 (one is Always On and fast charge), one microphone (stereo), one headphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

#### Rear ports* (Std.)
- One USB 3.1 Gen1 and three USB 2.0, ethernet (RJ-45), two DisplayPort, one headphone

#### Rear ports* (Opt.)
- One optional port (VGA**, 3rd DP**, HDMI**, or serial on some models)
  - **Not supported VGA, 3rd DP, HDMI for the models with Athlon / Athlon PRO**

#### Audio support
- High Definition (HD) Audio, Realtek ALC233-VD2 / internal speaker (1.5 watt)

#### WLAN
- **Some:** 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- **Some:** 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- **Some:** 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
- **Some:** 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
- **Some:** Bluetooth 4.2 wireless, integrated in Wi-Fi + BT combo adapter
- **Hardware supports BT 4.2, but Win10 RS3 and earlier only supports BT 4.1**

#### Bluetooth
- Gigabit Ethernet, Realtek RTL8111E/PEV, Wake on LAN™

#### Manageability
- DASH 1.0/1.1

#### Security chip
- Discrete TPM 2.0, TCG Certified

### Preload
- **Preloaded operating system**
  - **Windows 10 Pro 64-bit**
  - **Windows 7 Professional 64** preinstalled through downgrade rights in Windows 10 Pro 64-bit

### Security features
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

#### Keyboard
- **Some:** Lenovo Calliope Keyboard (USB connector), black
- **Some:** Lenovo Traditional Keyboard (USB connector), black
- **Some:** Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black
- **Some:** Lenovo Calliope Mouse (USB connector), black
- **Some:** Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
- **Some:** Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

#### Mouse
- **Some:** Lenovo Calliope Mouse (USB connector), black
- **Some:** Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
- **Some:** Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

#### Mechanical
- Tiny (1L), black color; metal case
- Toolless chassis open (need optional toolless chassis screw)
- Optional dust filter
- M715 Gen2 Tiny only:
  - 7.05" W X 7.20" D X 1.38" H
  - 179mm W X 182.9mm D X 34.5mm H
  - 2.91 lb (1.32 kg), weight may vary by configuration
  - With VESA mount & ODD box:
    - 7.42" W X 7.30" D X 2.48" H
    - 188.4mm W X 183.38mm D X 63mm H
    - 3.66 lb (1.66 kg), weight may vary by configuration
  - Optional USB port disablement
  - VESA mount:
    - 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Supports 3 independent displays (supports max HDMI/DVI display when using HDMI port or DP to DVI/HDMI dongle, and Athlon / Athlon PRO only support 2 displays); Max resolution: 4096x2160 (DP) @ 60Hz; 4096x2160 (HDMI) @ 30Hz; 1920x1200 (VGA) @ 60Hz

### Power supply
- 65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

### Limited warranty
- 1-year or 3-year, limited onsite service / service upgrades available

### Preloaded applications (only some listed)
- Wins 10 only
- Lenovo Vantage
- Microsoft Office preloaded:
  - purchase a product key to activate
  - Cyberlink PowerDVD (only for models with DVD / DVDs-RW)
  - Cyberlink Power2GO (only for models with DVD-RW)
  - LinkedIn
  - Windows 7 only
- Lenovo Solution Center
- ThinkVantage System Update
- Create Recovery Media
- Microsoft Office preloaded:
  - purchase a product key to activate
  - Adobe® Reader

### Environment
- ENERGY STAR® 7.0®, EPEAT™ Silver rating® ("Not for non-QS models; ErP Lot 3; RoHS-compliant"

### MIL-Spec test
- MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock)

### Accessories
- For compatible accessories, please go to [http://smartfind.lenovo.com](http://smartfind.lenovo.com)

Note: The specifications above may not be available in all regions.

Lenovo, July 2018
## ThinkCentre M715 Tiny Thin Client Platform Specifications

<table>
<thead>
<tr>
<th>Processor</th>
<th>AMD A6, A10, or A12 series APUs</th>
</tr>
</thead>
<tbody>
<tr>
<td>APU</td>
<td>Cores</td>
</tr>
<tr>
<td>PRO A6-8570E</td>
<td>2</td>
</tr>
<tr>
<td>PRO A10-8770E</td>
<td>4</td>
</tr>
<tr>
<td>PRO A12-8870E</td>
<td>4</td>
</tr>
</tbody>
</table>

*PRO A12-8870E (support Windows 10 IOT only) is only available via special bid models

| Memory | 4GB max, DDR4 2400, two 260-pin SO-DIMM sockets |

<table>
<thead>
<tr>
<th>Disk</th>
<th>Some: 256GB Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Some: 32GB M.2 Solid State Drive (SSD) / SATA interface</td>
</tr>
<tr>
<td></td>
<td>Some: 128GB M.2 Solid State Drive (SSD) / PCIe NVMe interface</td>
</tr>
<tr>
<td></td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar</td>
</tr>
<tr>
<td></td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Optical</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Onboard SATA</td>
<td>One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar</td>
</tr>
<tr>
<td>Media reader</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Graphics</th>
<th>AMD Radeon™ Graphics in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional port (HDMI, VGA, or 3rd DP), supports 3 independent displays (supports maximum of 2 concurrent HDMI/DVI displays when using HDMI port or DP to DVI/HDMI dongles): Max resolution: 4096x2160 (DP)@60Hz; 4096x2160 (HDMI)@30Hz; 1920x1200 (VGA)@60Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>DP cable</td>
<td>Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle</td>
</tr>
</tbody>
</table>

| Chipset | AMD B300 Chipset |

<table>
<thead>
<tr>
<th>Front ports*</th>
<th>Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rear ports*</td>
<td>One USB 3.0 and three USB 2.0 (optional external optical box or I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, HDMI, or serial on some models), one headphone * Depending on many factors, actual data transfer speed may be lower than theoretical speed</td>
</tr>
</tbody>
</table>

| I/O box | None |

<table>
<thead>
<tr>
<th>Audio support</th>
<th>High Definition (HD) Audio, Realtek ALC233-CG / internal speaker (1.5 watt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLAN802.11</td>
<td>Some: 11ac wireless, M.2 Card, Realtek RTL8821AE (dual band), Wi-Fi + Bluetooth 4.0 combo adapter, 1x1</td>
</tr>
</tbody>
</table>

| Bluetooth™ Ethernet Modem | None |

<table>
<thead>
<tr>
<th>Bluetooth™</th>
<th>Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethernet Modem</td>
<td>Gigabit ethernet, Realtek RTL8111EPV, Wake on LAN®</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Manageability</th>
<th>DASH 1.0/1.1, Discrete TPM 2.0, TCG Certified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Security chip</td>
<td>● Security slot (in rear for optional Kensington MicroSaver® cable)</td>
</tr>
<tr>
<td>Security features</td>
<td>● Administrator password</td>
</tr>
<tr>
<td></td>
<td>● Padlock loop</td>
</tr>
<tr>
<td></td>
<td>● Hard disk password</td>
</tr>
<tr>
<td></td>
<td>● Boot sequence control</td>
</tr>
<tr>
<td></td>
<td>● Smart USB protection, allows keyboard/mouse only, blocks all storage devices</td>
</tr>
<tr>
<td></td>
<td>● Boot without keyboard and mouse</td>
</tr>
<tr>
<td></td>
<td>● Individual USB port disablement</td>
</tr>
<tr>
<td></td>
<td>● Power-on password</td>
</tr>
<tr>
<td></td>
<td>● Chassis intrusion switch</td>
</tr>
</tbody>
</table>

| Security chip | Security slot (in rear for optional Kensington® MicroSaver® cable) |
| Security features | Administrator password |
|               | Padlock loop |
|               | Hard disk password |
|               | Boot sequence control |
|               | Smart USB protection, allows keyboard/mouse only, blocks all storage devices |
|               | Boot without keyboard and mouse |
|               | Individual USB port disablement |
|               | Power-on password |
|               | Chassis intrusion switch |

| Keyboard Mouser | Some: Fullsize USB Keyboard (USB connector), Lenovo logo |
|                | Some: USB Optical Wheel Mouse, black, Lenovo logo |

<table>
<thead>
<tr>
<th>Mechanical</th>
<th>Tiny (1L), black color; metal case</th>
</tr>
</thead>
<tbody>
<tr>
<td>M715 Tiny only:</td>
<td>7.05&quot; W X 7.20&quot; D X 1.36&quot; H</td>
</tr>
<tr>
<td></td>
<td>179mm W X 182.9mm D X 34.5mm H</td>
</tr>
<tr>
<td></td>
<td>2.9 lb (1.3 kg), weight may vary by configuration</td>
</tr>
</tbody>
</table>

| VESA mount | Optional VESA mount bracket kit, supports VESA 75mm and 100mm |
| Floor Stand | Optional system floor stand for vertical orientation |

| Power supply | 65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models) |
| Limited warrantya | Some: 1-year or 3-year, depot service / service upgrades available |
|                | Some: 1-year or 3-year, limited onsite service / service upgrades available |

<table>
<thead>
<tr>
<th>Preload</th>
<th>Preloaded operating system</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Some: Windows Embedded Standard 7 V2 (WES 7 V2)</td>
</tr>
<tr>
<td></td>
<td>Some: Windows 10 IoT Enterprise</td>
</tr>
<tr>
<td></td>
<td>Some: LeTOS V2 (Lenovo Terminal Operating System, Linux-based)</td>
</tr>
</tbody>
</table>

| Environment | ENERGY STAR® 6.1*, EPEAT™ Gold rating* (*not for non-OS models); ErP Lot 3; GREENGUARD®; RoHS-compliant |

| Accessories | For compatible accessories, please go to http://www.lenovoquickpick.com |

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Lenovo, October 2017
# ThinkCentre M715 Tiny Thin Client (2nd Gen) Platform Specifications

## Processor
<table>
<thead>
<tr>
<th>AMD Athlon, A6, A10, or Ryzen processor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>APU</strong></td>
</tr>
<tr>
<td>Athlon PRO 200GE</td>
</tr>
<tr>
<td>PRO A6-870GE</td>
</tr>
<tr>
<td>PRO A10-8770E</td>
</tr>
<tr>
<td>Ryzen 3 PRO 2200GE</td>
</tr>
</tbody>
</table>

## Memory
- 8GB max, DDR4 2666*, two 260-pin SO-DIMM sockets, dual-channel capable
- * System automatically clocks down for the lower memory controller

## Disk
- Some: 32GB M.2 Solid State Drive (SSD) / SATA interface
- Some: 128GB M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 2
- None
- One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

## Optical Onboard SATA
- AMD Radeon Graphics in processor, uses main memory, DirectX* 12, two DisplayPort™, one optional port (HDMI, VGA, or 3rd DP), supports 3 independent displays (supports maximum of 2 concurrent HDMI/DVI displays when using HDMI port or DP to DVI/HDMI dongles, and Athlon / Athlon PRO only support 2 displays);
- Max resolution: 4096x2160 (DP)@60Hz; 4096x2160 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz

## Monitor cable
- Optional DP to VGA dongle, DP to DVI-D dongle, or DP to HDMI 1.4 dongle

## Chipset
- AMD B300 Chipset

## Front ports* (Std.)
- Two USB 3.1 Gen1 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

## Rear ports* (Std.)
- One USB 3.1 Gen1 and three USB 2.0, ethernet (F1-JS), two DisplayPort, one headphone / microphone combo jack (stereo, 3.5mm)

## Rear ports* (Opt.)
- One optional port (VGA**, 3rd DP**, HDMI**, or serial on some models)
- ** Depending on many factors, actual data transfer speed may be lower than theoretical speed
- *** Not support VGA, 3rd DP, HDMI for the models with Athlon / Athlon PRO

## Audio support
- High Definition (HD) Audio, Realtek ALC223-2VB / internal speaker (1.5 watt)

## WLAN
- Some: 11ac wireless, M.2 Card, Realtek RT8821CE (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Realtek RT8822BE (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 2x2
- Some: Bluetooth 4.2* wireless, integrated in Wi-Fi + BT combo adapter

## Bluetooth Ethernet
- * Hardware supports BT 4.2, but Win10 RS3 and earlier only supports BT 4.1
- Gigabit ethernet, Realtek RTL8111EPV, Wake on LAN®

## Manageability
- DASH 1.0/1.1
- Discrete TPM 2.0, TCG Certified
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Administrator password
- Padlock loop
- Hard disk password
- Smart USB protection, allows keyboard / mouse only, blocks all storage devices
- Boot sequence control
- Individual USB port disablement
- Boot without keyboard and mouse
- Chassis intrusion switch

## Security features
- Security chip
- Power-on password

## Security chip
- SecurID
- Password authentication
- Biometric authentication
- Card reader
- Ruggedized

## Electronics
- Power-on password
- Power connector
- Smart USB protection
- WiFi + Bluetooth 4.2* combo adapter
- Wi-Fi + BT combo adapter
- Bluetooth 4.2* wireless

## Mechanical
- Tiny (1L), black color; metal case
- * Toolless chassis open (need optional toolless chassis screw)
- ** Optional dust filter
- M715 Gen2 Tiny only:
  - 7.05" W X 7.20" D X 1.36" H
  - 179mm W X 182.9mm D X 34.5mm H
  - 2.91 lb (1.32 kg), weight may vary by configuration

## VESA mount
- Optional VESA mount bracket kit, supports VESA 75mm and 100mm

## Floor Stand
- Optional system floor stand for vertical orientation

## Power supply
- 65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

## Limited warranty
- 1-year or 3-year, limited onsite service / service upgrades available

## Preload
- Preloaded operating system
- Some: Windows Embedded Standard 7 V2 (WES 7 V2)
- Some: Windows 10 IoT Enterprise
- Some: LeTOS V2 (Lenovo Terminal Operating System, Linux-based)

## Environment
- ENERGY STAR® 6.1*, EPEAT™ Silver rating* (*not for non-OS models);
- ErP Lot 3; RoHS-compliant

## MIL-SPEC test
- MIL-STD-810G military certification (Low Pressure [altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock)

## Accessories
- For compatible accessories, please go to [http://smartfind.lenovo.com](http://smartfind.lenovo.com)

Note: The specifications above may not be available in all regions.
Processor

<table>
<thead>
<tr>
<th>AMD APU / processor</th>
<th>Cores / Threads</th>
<th>Frequency (GHz)</th>
<th>L2 Cache</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ryzen 3 PRO 1200</td>
<td>4 / 4</td>
<td>3.1 / 3.4</td>
<td>2MB</td>
<td>None</td>
</tr>
<tr>
<td>Ryzen 3 PRO 1300</td>
<td>4 / 4</td>
<td>3.5 / 3.7</td>
<td>2MB</td>
<td>None</td>
</tr>
<tr>
<td>Ryzen 5 PRO 1500</td>
<td>4 / 4</td>
<td>3.5 / 3.7</td>
<td>2MB</td>
<td>None</td>
</tr>
<tr>
<td>Ryzen 7 PRO 1700</td>
<td>8 / 16</td>
<td>3.0 / 3.7</td>
<td>4MB</td>
<td>None</td>
</tr>
<tr>
<td>PRO A6-8770</td>
<td>2 / 2</td>
<td>3.5 / 3.8</td>
<td>1MB</td>
<td>Radeon R5 Series</td>
</tr>
<tr>
<td>PRO A10-8770</td>
<td>4 / 4</td>
<td>3.5 / 3.8</td>
<td>2MB</td>
<td>Radeon R7 Series</td>
</tr>
<tr>
<td>PRO A12-8870</td>
<td>4 / 4</td>
<td>3.7 / 4.2</td>
<td>2MB</td>
<td>Radeon R7 Series</td>
</tr>
<tr>
<td>PRO A6-9500</td>
<td>2 / 2</td>
<td>3.5 / 3.8</td>
<td>1MB</td>
<td>Radeon R5 Series</td>
</tr>
<tr>
<td>PRO A8-9600</td>
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<td>3.1 / 3.4</td>
<td>2MB</td>
<td>Radeon R7 Series</td>
</tr>
<tr>
<td>PRO A10-9700</td>
<td>4 / 4</td>
<td>3.5 / 3.8</td>
<td>2MB</td>
<td>Radeon R7 Series</td>
</tr>
<tr>
<td>PRO A12-9800</td>
<td>4 / 4</td>
<td>3.8 / 4.2</td>
<td>2MB</td>
<td>Radeon R7 Series</td>
</tr>
</tbody>
</table>

Memory

- 64GB max, UDIMM, DDR4-2400, four 288-pin DIMM sockets, non-ECC, dual-channel capable
- System automatically clocks down for the processors with lower memory controller
- Some: 4MB, 4 / 4, 2 / 2, 1MB
- 3.5 / 3.7, cores / 2MB
- Radeon R7 Series
- 2MB
- None
- AMD Radeon™ Graphics in processor (not for AMD Ryzen processor), uses main memory, DirectX®12, one VGA, two DisplayPort™ (Onboard VGA and DP ports are invalid on the models with AMD Ryzen processor), supports 3 independent displays, works along with AMD discrete graphics to support more displays;
  - Max resolution: 4096x2160 (DP) @ 60Hz; 1920x1200 (VGA) @ 60Hz
  - Some: NVIDIA GeForce® GT 730, DirectX 12, 2GB, PCIe 2.0 x8 adapter, two DisplayPort, 35 watts;
  - AMD Radeon™ RX 550, DirectX 12, 2GB, PCIe 3.0 x8 adapter, one VGA, one HDMI, one DisplayPort, 50 watts, occupies two slots;
  - Max resolution: 4096x2160 (HDMI) @ 60Hz; 2048x1536 (VGA) @ 60Hz; 5120x2880 (DP) @ 60Hz

Graphics

- AMD Radeon™ Graphics in processor (not for AMD Ryzen processor), uses main memory, DirectX®12, one VGA, two DisplayPort™ (Onboard VGA and DP ports are invalid on the models with AMD Ryzen processor), supports 3 independent displays, works along with AMD discrete graphics to support more displays;
  - Max resolution: 4096x2160 (DP) @ 60Hz; 1920x1200 (VGA) @ 60Hz
  - Some: NVIDIA GeForce® GT 730, DirectX 12, 2GB, PCIe 2.0 x8 adapter, two DisplayPort, 35 watts;
  - AMD Radeon™ RX 550, DirectX 12, 2GB, PCIe 3.0 x8 adapter, one VGA, one HDMI, one DisplayPort, 50 watts, occupies two slots;
  - Max resolution: 4096x2160 (HDMI) @ 60Hz; 2048x1536 (VGA) @ 60Hz; 5120x2880 (DP) @ 60Hz

Monitor Cable
- Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

Chipset
- AMD B350 Chipset
- Front ports* Two USB 3.1 Gen2, two USB 3.1 Gen1, optional two USB 3.1 Type-C Gen 2 (only available via special bid), microphone (3.5mm), headphone (3.5mm)
- Rear ports* Two USB 3.1 Gen1, two USB 2.0, optional two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA and two DisplayPort (not available on models with AMD Ryzen processor), two PCI/2 ports (keyboard / mouse);
- Rear audio ports* Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)
- IEEE 1394a* None

Audio support
- High Definition (HD) Audio, Realtek ALC862 / optional internal speaker (1.5 watt )

WLAN
- Some: 11ac wireless, M.2 Card, Realtek RTL8821AE (dual band), Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9617A4 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1

Bluetooth™
- Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Environment
- ENERGY STAR® 6.1, EPEAT™ Gold rating (North America), ErP Lot 3, GREENGUARD®, RoHS-compliant

Note: The specifications above may not be available in all regions.
## ThinkCentre M720 SFF Platform Specifications

### Processor

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### Memory

- 64GB max, UDIMM, DDR4-2466, four 288-pin D4M sockets, non-ECC, dual-channel capable
  - System automatically clocks down for the processors with lower memory controller

### Storage

- Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5" 5400 rpm or 7200 rpm
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
- Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
- Some: M.2 SSD (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s
- Some: Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2
- Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)
- Some: DVD Burner (DVD+RW), SATA 1.5Gb/s Drive, slim (9.0mm)
- Three onboard SATA 6.0Gb/s connectors
- Optional 7-in-1 media reader

### Optical

- Intel UHD Graphics 610/630 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™ supports 3 independent displays, works along with discrete graphics to support more displays;
  - Max resolution: 4096x2304 (DP)@60Hz; 2048x1536 (VGA)@50Hz
- NVIDIA GeForce GT 730, DirectX 12, 2GB, PCIe 2.0 x16 adapter, two DisplayPort, 35 watts.
- Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle (for Collage Display with Intel integrated graphics), or DP to HDMI 1.4 dongle

### Monitor control

- Max resolution: 3840x2160 (DisplayPort)@60Hz
- Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle (for Collage Display with Intel integrated graphics), or DP to HDMI 1.4 dongle

### Chipset

- Intel B360 Chipset

### Ports

- Front ports: (Std.) 2x USB 3.1 Gen2, 2x USB 3.1 Gen1, 1x USB 3.1 Type-C Gen1 (15W charging), 1x microphone (3.5mm), 1x headphone / microphone combo jack (3.5mm)
- Front ports: (Opt.) 1x media reader
- Rear ports: (Std.) 4x USB 2.0, 1x serial (9-pin), 1x ethernet (RJ-45), 1x VGA, 2x DisplayPort, 1x line-out (3.5mm)
- Rear ports: (Opt.) Optional: 2x USB 3.1 Gen1 via PCI2 x1**, 2x USB 3.1 Type-C Gen2 via PCIe x4** (special bid only), 1x 2nd serial (9-pin), 4x serial (9-pin) via PCIe x1, 1x parallel (25-pin), 2x PS/2 ports (keyboard/mouse), additional RJ-45 and video ports available on optional graphics or ethernet card
- Audio support: High Definition (HD) Audio, Realtek ALC233VB2 / internal speaker (2 watt)

### WLAN

- Some: 11ac wireless, M.2 Card, Realtek RTL8822CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1

### Chipset

- Intel® Celeron™, Intel® Pentium™, or 8th / 9th Gen Intel® Core™ i3 / i5 / i7 / i9 Processor

### Graphics

#### Intel UHD Graphics 610/630

- **Max resolution:**
  - 4096x2304 (DP)@60Hz
  - 2048x1536 (VGA)@50Hz

### Mechanical

- **SFF (8.4L), black color; metal case**
- **Wi-Fi+Bluetooth**: 3.64" X 11.44" X 13.52", 92.5mm X 290.5mm X 343.5mm
- **ATX**: 13.24 Ib (6.0 kg), weight may vary by configuration
- **Toless cover, disk, optical, and extension card removal**
- **Power on without keyboard and mouse**
- **Individual USB port disablement**
- **Smart USB protection, allows keyboard/mouse only, blocks all storage devices**

### Floor Stand

- **Optional system floor stand for vertical orientation**

### Power supply

- **Some:** 180 watts, autosensing, 85% PSU
- **Some:** 210 watts, autosensing, 85% PSU
- **Some:** 260 watts, autosensing, 92% PSU (only available via special bid)

### Environment

- **ENERGY STAR® 6.1**, EPEAT Silver rating (North America), ErP Lot 3, TCO, TÜV low noise verified (coming soon, on some models), RoHS-compliant

### Accessory

- For compatible accessories, please go to [http://smartfind.lenovo.com](http://smartfind.lenovo.com)

### Note:
The specifications above may not be available in all regions.

Lenovo, June 2019
Processor Intel® Celeron®, Intel® Pentium®, or 8th / 9th Gen Intel® Core™ i3 / i5 / i7 / i9 Processor

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Memory 64GB max, UDIMM, DDR4-2666*, four 288-pin DIMM sockets, non-ECC, dual-channel capable
* System automatically clocks down for the processors with lower memory controller.

Storage
Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4*, 32Gb/s
* 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s
Some: Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2
Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)
Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)

Optical
Some: NVIDIA GeForce® GT 730, DirectX 12, G82, PCIe 2.0 x16 adapter, two DisplayPort, 35 watts.
Max resolution: 1920x1080 (DisplayPort) @ 60Hz
Optional: USB 3.0, 5.1 sound (with connector), 1x headphone / microphone jack (3.5mm)

Monitor Cable
Some: Optional port / to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle (for Collage Display with intel integrated graphics), or DP to HDMI 1.4 dongle

Chipset
Intel B360 Chipset

Preload
Preloaded operating system
Some: Windows® 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Preloaded applications (only some listed)
• Lenovo Vantage
• Microsoft Office preloaded;
• purchase a product key to activate
• CyberLink PowerDVD (only for models with DVD / DVD±RW)
• CyberLink Power2Go (only for models with DVD±RW)

Environmental
ENERGY STAR® 6.1, EPEAT™ Silver rating (North America), ErP Lot 3, TCO, TUV low noise verified (coming soon, on some models), RoHS-compliant

Note: The specifications above may not be available in all regions.
## Processor

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## Memory

32GB max, UDIMM, DDR4-2666*, two 288-pin DIMM sockets, non-ECC, dual-channel capable. *Memory may be underclocked to DDR4-2400 for the lower memory controller in processor.

## Storage

Some: Hard Drive / SATA 6.0Gb/s; 2.5" or 3.5"; 5400 rpm or 7200 rpm
Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x2 or PCIe 3.0 x4
Some: Intel Optane™ Memory M.2 2280, PCIe NVMe, PCIe 3.0 x 2
Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)
Some: DVD Burner (DVD+/-RW), SATA 1.5Gb/s Drive, slim (9.0mm)

## Optane memory

Optional

## Optical

Two onboard SATA 6.0Gb/s connectors
Optional 7-in-1 media reader

## Graphics

**Intel HD Graphics 610/630** in processor, uses main memory, DirectX® 12, one VGA, one DisplayPort®*, supports 2 independent displays, works along with discrete graphics to support more displays:
- **Max resolution:** 4096x2304 (DP) @ 60Hz; 2048x1536 (VGA) @ 50Hz
- **Some:** AMD Radeon™ 520, DirectX 12, 2GB GDDR5, PCIe 3.0 x8 adapter, one VGA, one HDMI, 30 watts (Max).
- **Max resolution:** 3840x2160 (HDMI) @ 30Hz; 2048x1536 (VGA) @ 85Hz

## Monitor cable

Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

## Chipset

**Intel B365 Chipset**

## Front ports

- **(Std.)** Two USB 3.1 Gen1, microphone (3.5mm), one headphone / microphone combo jack (3.5mm)
- **(Opt.)** None

## Rear ports

- **(Std.)** Two USB 3.1 Gen1, two USB 2.0, serial (9-pin), ethernet (RJ-45), one VGA, one DisplayPort, Line-out jack (3.5mm)
- **(Opt.)** optional two USB 2.0, optional 2nd serial (9-pin), optional external USB to PS/2 ports cable (for PS/2 keyboard / mouse), additional video ports or RJ-45 on optional graphics / ethernet card on some models

* Depending on many factors, actual data transfer speed may be lower than theoretical speed

## Audio support

High Definition (HD) Audio, Realtek ALC623 / internal speaker (2 watt)

## LAN

None

## Bluetooth

None

## Ethernet

Gigabit ethernet, Realtek RTL8111HN, Wake on LAN®

## Ethernet (Opt.)

Some: Bitlendi BN8E88®, gigabit ethernet, PCIe x1

## Modem

None

## Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Optional smart cable clip to physically lock both keyboard and mouse

## Mechanical

- SFF (7.4L), black color, metal case
- (WxDxH) 3.9” X 11.9” X 10.8”; 100mm X 303.5mm X 274.8mm
- Approx. 9.37 lb (4.25 kg), weight may vary by configuration

## Floor Stand

Optional rear 2x USB2.0 / parallel occupies one expansion slot
Optional system floor stand for vertical orientation

## Packaging

(WxDxH) 7.7” X 15.4” X 19.7”; 195mm X 390mm X 500mm
Cross weight (approx.) 14.48 lb (6.57 kg)

## Power supply

180 watts, autosensing, 85% PSU

## Limited warranty

Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available

## preload

Preloaded operating system
- Some: Windows® 10 Pro 64-bit
- Some: Windows 10 Home 64-bit
- Some: Linux Ubuntu

## Environment

ENERGY STAR® 7, EPEAT Silver rating (North America), ErP Lot 3, RoHS-compliant, WEEE

## Accessories

For compatible accessories, please go to http://www.lenovoquickpick.com

Note: The specifications above may not be available in all regions.

Lenovo, September 2019
### ThinkCentre M725 SFF Platform Specifications

#### Processor AMD A6 / A8 / A10 and Ryzen 3 / 5 / 7 series processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency (Base/Max)</th>
<th>L2 / L3 Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRO A6-9500</td>
<td>2 / 2</td>
<td>3.5 / 3.8</td>
<td>1MB DDR4-2400</td>
<td>Radeon R7</td>
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<td>PRO A8-9600</td>
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<td>3.1 / 3.4</td>
<td>2MB DDR4-2400</td>
<td>Radeon R7</td>
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<td>PRO A10-9700</td>
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<td>Radeon R7</td>
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<td>2MB / 4MB DDR4-2933</td>
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<td>Ryzen 5 PRO 2500</td>
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<td>Ryzen 7 PRO 2700</td>
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<td>3.2 / 4.1</td>
<td>4MB / 16MB DDR4-2933</td>
<td>None</td>
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</tr>
</tbody>
</table>

#### Memory

- 64GB max, UDIMM, DDR4-2666*, four 288-pin DIMM sockets, non-ECC, dual-channel capable
- * Systemboard supports up to DDR4-2666, memory frequency may automatically clock down for the lower capability of memory controller in processor

#### Storage

- Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
- Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
- * 128GB SSD M.2 (2242) PCIe NVMe and AMD A6 / A8 / A10 / A12 processor only supports PCIe 3.0 x 2, 16Gb/s

#### Optical

- Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)
- Some: DVD Burner (DVDS+RW), SATA 1.5Gb/s Drive, slim (9.0mm)

#### Onboard SATA

- Three onboard SATA 6.0Gb/s connectors, RAID 0/1 support (RAID preset only available via special bid model)
- Optional 7-in-1 media reader

#### Graphics

- AMD Radeon™ Graphics in processor (only for some processors), uses main memory, DirectX® 12, one VGA, two DisplayPorts (Onboard Video Graphics), 1920×1200, 4x1920
- Support for integrated graphics, supports 3 independent displays, works along with AMD discrete graphics to support more displays; *Max resolution*: 4096x2160 (DP) @ 60Hz, 1920x1200 (VGA) @ 60Hz
- Some: NVIDIA GeForce® GT 730, DirectX 12; 2GB GDDR5, PCIe 2.0 x16 (x8 elec.), adapter, two DisplayPort, 35 watts
- *Max resolution*: 3840x2160 (DisplayPort) @ 60Hz

#### Monitor cable

- Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle, or DP to HDMI 1.4 dongle

#### Chipset AMD B450 Chipset

- Front ports* (Std.): 2x USB 3.1 Gen2, 2x USB 3.1 Gen1, 1x microphone (3.5mm), 1x headphone (3.5mm)
- Front ports* (Opt.): 1x media reader, 2x USB 3.1 Type-C Gen2 via PCIe card (special bid only)
- Rear ports* (Std.): 2x USB 3.1 Gen1, 2x USB 2.0, 1x serial (9-pin), 1x ethernet (RJ-45), 1x VGA**, 2x DisplayPort**, 2x PS/2 ports (keyboard / mouse); 1x line-in (3.5mm), 1x line-out (3.5mm), 1x microphone (3.5mm)
- Rear ports* (Opt.): 2x USB 2.0, 1x 2nd serial (9-pin), 1x parallel (25-pin), additional RJ-45 and video ports available on optional graphics or ethernet card

#### Audio support

- High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1 watt)

#### WLAN

- Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x1
- 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
- Some: Bluetooth 4.2, wireless, integrated in Wi-Fi + BT combo adapter
- * Hardware supports BT 4.2, but Win10 RS3 and earlier only supports BT 4.1

### Ethernet

- Ethernet (Opt.): Gigabit ethernet, Realtek RTL8111EPV, Wake on LAN™
- Some: Bitland BN8E88, gigabit ethernet, 1x RJ-45, PCIe x1 (special bid only)

#### Manageability

- Security chip
- Security features: DASH 10/1.1
- Discrete TPM 2.0, TCG Certified
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Optional cable lock to physically lock both keyboard and mouse
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

#### Mechanical

- SFF (8.4L), black color: metal case
- * (WxDxH): 3.6” x 11.4” x 3.5”; 92.5mm x 290.5mm x 343.5mm
- Approx. 13.2 lb (6.0 kg), weight may vary by configuration
- Toolless cover, disk, optical removal
- Optional dust filter
- Bay 1: Slim external ODD bay
- Bay 2: 3.5”, internal, HDD/SSD
- Bay 3: 2.5” internal, HDD/SSD (may comes with 2.5” SSD)
- Slot 1: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x16
- Slot 2: low-profile (length < 150mm, height < 68mm), PCIe 2.0 x1
- Slot 3: low-profile (length < 150mm, height < 68mm), PCIe 2.0 x1
- Slot 4: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x1
- M.2 cards slots: two (one for WAN, one for SSD)
- Optional system floor stand for vertical orientation

#### Power supply

- Some: 180 watts, autosensing, 85% PSU
- Some: 210 watts, autosensing, 85% PSU
- Some: 260 watts, autosensing, 92% PSU (only available via special bid)

#### Limited warranty

- 1-year or 3-year, limited onsite service / service upgrades available

#### Preload

- Preloaded operating system
- Some: Windows 10 Pro 64-bit
- Some: Windows 10 Home 64-bit
- Preloaded applications (only some listed)
- Lenovo Vantage
- Microsoft Office preload; purchase a product key to activate
- Cyberlink PowerDVD (only for models with DVD / DVD+RW)
- Cyberlink Power2GO (only for models with DVD+RW)
- Cyberlink Power2GO (only for models with DVD+xRW)
- LinkedIn

#### Environment

- ENERGY STAR® 7.0, EPEAT® Silver rating* (*not for non-OS models); ELP Lot 3; RoHS-compliant

#### Accessories

- For compatible accessories, please go to http://smartfind.lenovo.com

Note: The specifications above may not be available in all regions.
ThinkCentre M75s-1 SFF Platform Specifications

Product Specifications Reference (PSREF)

Processor: AMD Athlon PRO and Ryzen 3 / 5 / 7 PRO series processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency (Base/Max)</th>
<th>L2 / L3 Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
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<tbody>
<tr>
<td>Athlon PRO 300GE</td>
<td>2 / 4</td>
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<td>1MB / 4MB</td>
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<td>Radeon Vega 3</td>
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<tr>
<td>Ryzen 3 PRO 3200G</td>
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<td>3.6 / 4.0</td>
<td>2MB / 4MB</td>
<td>DDR4-2933</td>
<td>Radeon Vega 8</td>
</tr>
<tr>
<td>Ryzen 5 PRO 3400G</td>
<td>4 / 8</td>
<td>3.7 / 4.2</td>
<td>2MB / 4MB</td>
<td>DDR4-2933</td>
<td>Radeon Vega 11</td>
</tr>
</tbody>
</table>

Memory: 64GB max, UDIMM, DDR4-2666*, four 28-pin DIMM sockets, non-ECC, dual-channel capable

Storage: 512GB SSD, 2.5", 1.8TB SATA SSD, 3.5" SAS, dual band, 2.5" HDD/SSD, SATA 6Gb/s, SSD 7mm, M.2 SSD (2242/2280), M.2 Card, PCIe NVMe, PCIe 3.0 x2, PCIe 3.0 x4

Optical: DVD Burner, DVD±RW 8X, SATA 6Gb/s, 12x, slim (9.0mm)

Onboard SATA: Three onboard SATA 6.0Gb/s connectors, RAID 0/1/0 support (RAID preset only available via special bid model)

Media reader: Optional 7-in-1 media reader

Graphics: **AMD Radeon™ Graphics in processor** (only for some processors), uses main memory, DirectX® 12, one VGA, two DisplayPort™ (Onboard VGA and DP ports are only available on the models with integrated graphics), supports 3 independent displays, works along with AMD discrete graphics to support more displays;

- Max resolution: 4096x2160 (DP)@60Hz
- Some: AMD Radeon™ 520, DirectX 12, 2GB GDDR5, PCIe 3.0 x8 adapter, two DisplayPort, 30 watts (Max)

Monitor cable: Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

Chipset: AMD PRO 560 FCH

Front ports (Std.): 2x USB 3.1 Gen2, 2x USB 3.1 Gen1, 1x microphone (3.5mm), 1x headphone (3.5mm)

Front ports (Opt.): Optional: 1x media reader

Rear ports (Std.): 2x USB 3.1 Gen1 (one support Smart Power-On), 2x USB 2.0, 1x serial (9-pin), 1x Ethernet (RJ-45), 1x VGA™, 2x DisplayPort™, 2x PS/2 ports (keyboard / mouse); 1x line-in (3.5mm), 1x line-out (3.5mm), 1x microphone (3.5mm)

Rear ports (Opt.): Optional: 2x USB 2.0, 1x parallel (25-pin), additional video ports available on optional graphics card

Audio support: High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1 watt )

WLAN: Some: 11ac wireless, M.2 Card, Realtek RTL8822CE (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, 2x2

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2

Bluetooth: Some: Bluetooth 4.2 / 5.0 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet (Opt.): Gigabit ethernet, Realtek RTL8111EPV, Wake on LAN

Manageability: Security chip, Security features

- DASH 10/1.1
- Discrete TPM 2.0, TCG Certified
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Optional smart cable clip to physically lock both keyboard and mouse

- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard: Some: Lenovo Traditional Keyboard (USB connector), black

Mouse: Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Mechanical: SFF (6.4L), black color; metal case

1-year or 3-year limited onsite service / service upgrades available

Preload: Preloaded operating system

- Windows 10 Pro 64-bit
- Some: Lenovo Windows 10 IoT Enterprise
- Some: Linux Ubuntu

Environment: ENERGY STAR® 7.0, EPEAT™ Silver rating* (*not for non-OS models);

- ErP Lot 3; RoHS-compliant, WEEE

Accessories: For compatible accessories, please go to http://smartfind.lenovo.com

Note: The specifications above may not be available in all regions.

Lenovo, September 2019
ThinkCentre M90n-1 Nano Platform Specifications

Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency (Base/Max GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core i3-8145U</td>
<td>2 / 4</td>
<td>2.1G / 3.9G</td>
<td>4 MB</td>
<td>DDR4-2400</td>
<td>UHD 620</td>
</tr>
<tr>
<td>Core i5-8265U</td>
<td>4 / 8</td>
<td>1.6G / 3.9G</td>
<td>6 MB</td>
<td>DDR4-2400</td>
<td>UHD 620</td>
</tr>
<tr>
<td>Core i5-8365U</td>
<td>4 / 8</td>
<td>1.6G / 4.1G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>UHD 620</td>
</tr>
</tbody>
</table>

Memory

- 8GB or 16GB / DDR4-2666* / soldered to system board, no sockets, non-ECC
- * System automatically clocks down for the processors with a lower memory controller

Storage

- Support up to two M.2 SSD
- Some: M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4*  
- Some: M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2
- Some: Intel Optane™ Memory H10 with Solid State Storage, M.2 2280, PCIe NVMe 3.0 x 4 (not support Celleron)

RAID

- RAID 0/1 support (RAID preset only available via special bid model)
- None

Optical

- None

Graphics

- Intel UHD Graphics 620 in processor, uses main memory. DirectX® 12, one DisplayPort™, one USB 3.1 Type-C Gen2 with display function, up to 2 independent displays;
- Max resolution: 4096x2304 (DP) @ 60Hz; 4096x2304 (Type-C) @ 60Hz;
- Optional DP to VGA dongle, DP to HDMI dongle, Type-C to VGA dongle, Type-C to HDMI dongle, Type-C to DP dongle

Chipset

- Intel SoC (System on Chip) platform

Audio support

- Realtek ALC333VB / internal speaker (1Watt)

WLAN

- Some: 11ac wireless, M.2 Card, Realtek RT8822CE (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Realtek RT8822CE (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9462 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, 2x2

Bluetooth

- Some: Bluetooth 5.0 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

- Gigabit ethernet, Intel Ethernet Connection X520-LM(Jacksonville), Wake on LAN™

Note: The specifications above may not be available in all regions.

Lenovo, July 2019
## Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency Base/Max(GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
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</thead>
<tbody>
<tr>
<td>Celeron 4205U</td>
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<td>UHD 610</td>
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<tr>
<td>Core i3-8145U</td>
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<td>2.1G / 3.9G</td>
<td>4 MB</td>
<td>DDR4-2400</td>
<td>UHD 620</td>
</tr>
</tbody>
</table>

* System automatically clocks down for the processors with lower memory controller

## Memory

- 4GB / DDR4-2666* / soldered to systemboard, no sockets, non-ECC

## Storage

- Support up to two M.2 SSD
- Some: M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4
- Some: M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2
- Some: Intel Optane™ Memory H10 with Solid State Storage, M.2 2280, PCIe NVMe 3.0 x 4 (not support Celeron)

## RAID

- M.2 SSD / Optane with SSD in PCIe 3.0 x 2 M.2 slot can only run at PCIe 3.0 x 2 RAID 0/1 support (RAID preset only available via special bid model)

## Optical

- None

## Graphics

- **Intel UHD Graphics 610/620 in processor, uses main memory, DirectX® 12, one DisplayPort™, one USB 3.1 Type-C Gen2 with display function, up to 2 independent displays:**
  - Max resolution: 4906x2304 (DP) @ 60Hz
  - 4096x2304 (Type-C) @ 60Hz
- Optional DP to VGA dongle, DP to HDMI dongle, Type-C to VGA dongle, Type-C to HDMI dongle, Type-C to DP dongle

## Chipset

- **Intel SoC (System on Chip) platform**

## Front ports (Std.)*

- 2x USB 3.1 Gen2, 1x USB 3.1 Type-C Gen 2, one headphone / microphone combo jack (3.5mm), 2x serial

## Rear ports (Std.)*

- With **Celeron**: 1x USB 2.0, 1x USB 3.1 Type-C Gen 2 (with display function, support power-in [20V, > 45W]), 1x ethernet (RJ-45), 1x DisplayPort
- With **Core i3**: 1x USB 3.1 Gen2, 1x USB 3.1 Type-C Gen 2 (with display function, support power-in [20V, > 45W]), 2x ethernet (RJ-45), 1x DisplayPort

* Depending on many factors, actual data transfer speed may be lower than theoretical speed

## Audio support

- Realtek ALC233VB / internal speaker (1watt)

## WLAN

- Some: 11ac wireless, M.2 Card, Realtek RTL8822CE (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Realtek RTL8822CE, Wi-Fi + Bluetooth 5.0 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9462 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, 2x2

## Bluetooth

- With **Celeron**: Gigabit ethernet, Realtek RTL8111K, 1x RJ-45, Wake on LAN™
- With **Core i3**: Two gigabit ethernet, Realtek RTL8111K and RTL8111HN, 2x RJ-45, Wake on LAN™

## Environment

- ENERGY STAR® 7.1, EPEAT™ Silver rating (North America), ErP Lot 3, TCO 8.0, TUV ultra low noise verified (on some models), RoHS, WEEE, REACH

## MIL-SPEC test


## Accessory

- For compatible accessories, please go to [http://smartfind.lenovo.com](http://smartfind.lenovo.com)
### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Core i5-6500</td>
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<td>3.2G / 3.6G</td>
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<td>Core i7-6700</td>
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<td>Core i7-7700</td>
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<td>6 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
</tbody>
</table>

### Memory

- 64GB max, UDIMM, DDR4-2400*, four 288-pin DIMM sockets, non-ECC, dual-channel capable
- * System automatically clocks down for the processors with lower memory controller

### Storage

- Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" or 3.5"
- Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
- Some: Intel Optane™ Memory (with 7th gen Core processor), M.2
- Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)
- Some: DVD Burner (DVD+R, SATA 1.5Gb/s Drive, slim (9.0mm)

### Optical

- Onboard SATA 6.0Gb/s connectors, RAID 0/1 support (RAID preset only available via special bid model)

### Media reader

- Optional 7-in-1 media reader

### Graphics

- Intel HD Graphics 510/530/610/630 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™, supports 3 independent displays, works along with discrete graphics to support more displays;
- Max resolution: 4096x2304 (DP) @ 60Hz; 2048x1536 (VGA) @ 50Hz
- NVIDIA GeForce® GT 730, DirectX 12, 2GB, PCIe 2.0 x8 adapter, two DisplayPort, 35 watts;
- Max resolution: 3840x2160 (DisplayPort) @ 60Hz;
- Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

### Chipset

- Intel Q270 Chipset

### Front ports

- Four USB 3.1 Gen1, optional two USB 3.1 Type-C ports (2 only available via special bid);
- microphone (3.5mm), headphone (3.5mm)

### Rear ports

- Four USB 3.1 Gen1, optional two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional two PS/2 ports (keyboard/mouse);
- additional DisplayPort on optional graphics on some models
- Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)
- * Depending on many factors, actual data transfer speed may be lower than theoretical speed

### Audio support

- High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

### WLAN™

| Some: | 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1 |
| Some: | 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2 |
| Some: | 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.1 combo adapter, 1x1 |
| Some: | 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2 |

### Bluetooth™

- None

### Ethernet Modem

- None

### Manageability

- Intel Active Management Technology 11.0 (Intel AMT 11.0);
- Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

### Security chip

- TPM (Trusted Platform Module) 2.0, TCG Certified
- * Downgrade to TPM1.2 for the models with Win10 DG Win7 32 OS

### Security features

- ● Security slot (in rear for optional Kensington® MicroSaver® cable)
- ● Power-on password
- ● Administrator password
- ● Hard disk password
- ● Smart USB protection, allows keyboard / mouse only, blocks all storage devices
- ● Boot sequence control
- ● Boot without keyboard and mouse
- ● Individual USB port disablement
- ● Optional chassis intrusion switch

### Keyboard

- Some: Lenovo Calliope Keyboard (USB connector), black
- Some: Lenovo Traditional Keyboard (USB connector), black

### Mouse

- Some: Lenovo Calliope Mouse (USB connector), black
- Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

### Mechanical

- ● SFF (8.4L), black color, metal case
- ● (WinUX) 3.6" X 11.44" X 13.5", 92.5mm X 290.5mm X 342.5mm
- ● Approx. 11.92 lb (5.4 kg), weight may vary by configuration
- ● Toolless cover, disk, optical, graphic card removal
- ● Optional dust filter
- ● Bay 1: Slim external ODD bay
- ● Bay 2: 3.5", 1" high, internal, HDD/SSD
- ● Bay 3: 2.5", internal, HDD/SSD (optional bay)
- ● Slot 1: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x16* 
- ● Slot 2: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x1* 
- ● Slot 3: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x16 (x4 signal)* 
- ● Slot 4: no slot, only bracket for optional port extension*
- * Optional 2 front USB3.1 Type-C ports module occupies PCIe x16 (x4 signal) slot, optional rear 2x USB2.0 / parallel / 2nd serial / cable lock / Wi-Fi antenna occupies one expansion slot

### Floor Stand

- Optional system stand for floor stand orientation

### Power supply

- Some: 180 watts, autosensing, 85% PSU
- Some: 210 watts, autosensing, 85% PSU
- Some: 210 watts, autosensing, 92% PSU (only available via special bid)

### Limited warranty

- Some: 1-year or 3-year, depot service / service upgrades available
- Some: 1-year or 3-year, limited onsite service / service upgrades available

### Preload

- Preloaded operating system
  - Some: Windows® 7 Professional 32/64 preinstalled, in downigrade rights in Windows 10 Pro 64-bit (not available with 7th Gen Intel processor)
  - Lenovo Companion
  - Lenovo Solution Center
  - Lenovo ThinkVantage Tools
  - Create Recovery Media
  - Adobe® Reader
  - Cyberlink PowerDVD Create (DVD±RW)

- Preloaded applications (only some listed)
  - Microsoft Office preloaded;
  - Only for Window 10
  - Lenovo Companion
  - Only for Window 7

### Environment

- ENERGY STAR® 6.1, EPEAT™ Gold rating (North America), RoHS-compliant,
  - ErP Lot 3, GREENGUARD®, TUV low noise verified (on some models)

### Accessories

- For compatible accessories, please go to http://www.lenovoquickpick.com

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Note: The specifications above may not be available in all regions.

Lenovo, August 2017
### ThinkCentre M910 Tiny Platform Specifications

**Processor**

<table>
<thead>
<tr>
<th>Core</th>
<th>Frequency Base/Max (GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core i5-6500T</td>
<td>2.50 / 3.1G</td>
<td>6 MB</td>
<td>DDR4-2133</td>
<td>HD 530</td>
</tr>
<tr>
<td>Core i7-6700T</td>
<td>2.8G / 3.6G</td>
<td>8 MB</td>
<td>DDR4-2133</td>
<td>HD 530</td>
</tr>
<tr>
<td>Core i5-7500T</td>
<td>2.7G / 3.3G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
<tr>
<td>Core i7-7700T</td>
<td>2.9G / 3.9G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
</tbody>
</table>

**Memory**

32GB max, DDR4-2400*, two 260-pin SO-DIMM sockets, non-ECC, dual-channel capable

* System automatically clocks down for the processors with lower memory controller frequencies.

**Security chip**

TPM (Trusted Platform Module) 2.0*, TCG Certified

* Downgrade to TPM1.2 for the models with 7th gen Core processor.

**Storage**

Some: Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm, APS

Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"

Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2

**Optical**

Some: DVD Burner (DVD±RW), slim (9.0mm), via USB external ODD box

Some: One onboard SATA 6.0Gb/s connector

**Graphics**

Intel HD Graphics 510/530/610/630 in processor, uses main memory, DirectX 12, two DisplayPort™, one optional video port (HDMI, VGA, 3rd DP, or USB 3.1 Type-C with DisplayPort Alternate Mode), up to 3 independent displays;

Max resolution: 5120x2880 (HDMI)@60Hz; 4096x2304 (DP)@60Hz; 4096x2160 (HDMI@24Hz; 1920x1200 (VGA@60Hz)

Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

**Chipset**

Intel Q270 Chipset

**Front ports**

Two USB 3.1 Gen1 (one is Always On and fast charge), one microphone (3.5mm), one headphone / microphone jack combo (3.5mm)

**Rear ports**

Four USB 3.1 Gen1 (optional external optical box or external I/O box occupies one or two specific USB 3.1 Gen1 on some models), ethernet (RJ-45) on two DisplayPort, two optional ports (Port 1 for VGA / 3rd DP / HDMI / serial / USB 3.1 Type-C Gen 1 (with DisplayPort Alternate Mode), Port 2 for serial)

Optional external I/O box, extends two USB 2.0, two USB 3.1 Gen1, and one serial or rear, two USB 2.0 on front, via USB cable (occupy two specific USB 3.1 Gen1 of Tiny)

* Depending on many factors, actual data transfer speed may be lower than theoretical speed

**WLAN**

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2

Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1

Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 2825, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2

Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2

**Bluetooth**

Some: Bluetooth 4.2 wireless, integrated in Wi-Fi + BT combo adapter

* Hardware supports BT 4.2, but Win10 RS3 and earlier only supports BT 4.1

**Ethernet**

Gigabit ethernet, Intel Ethernet Connection (219-LM (Jacksonville), Wake on LAN*

**Manageability**

Intel Active Management Technology 11.0 (Intel AMT 11.0); Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

**MIL-STD test**

MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus, Solar Radiation)

**Security features**

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disabling
- Chassis intrusion switch

**Keyboard**

Some: Lenovo Calliope Keyboard (USB connector), black

Some: Lenovo Traditional Keyboard (USB connector), black

Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black

Some: Lenovo Calliope Mouse (USB connector), black

**Mouse**

Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

**Mechanical**

Tiny (1L), black color; metal case

- Toolless chassis open
- Toolless HDD, SSD, memory removal
- Optional toolless chassi screw
- Optional dust filter

**Power supply**

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

**Limited warranty**

- 1-year or 3-year, depot service / service upgrades available
- 3-year or 3-year, limited onsite service / service upgrades available

**Preload**

Some: Windows 7 Professional 32/64 preinstalled (not available with 7th Gen Intel processor)

Some: Windows 10 Pro 64-bit (not available with 7th Gen Intel processor)

Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Microsoft Office preloaded; purchase a product key to activate
- Only for Window 10
- Lenovo Companion
- Intel Unite download link (vPro models only)
- Only for Window 7
- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- Create Recovery Media
- Adobe® Reader®
- Cyberlink PowerDVD Create (DVO+RW)
- Intel Unite (vPro models only)

**Environment**

ENERGY STAR® 6.1, EPEAT® Gold rating (North America), ErP Lot 3, GREENGUARD®, RoHS-compliant, TUV low noise verified (on some models)

**Accessories**

For compatible accessories, please go to [http://www.lenovoupickquick.com](http://www.lenovoupickquick.com)

See footnotes for more detailed information
## ThinkCentre M910 Tower Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency Base/Max (GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core i5-6500</td>
<td>4 / 4</td>
<td>3.2G / 3.6G</td>
<td>6 MB</td>
<td>DDR4-2133</td>
<td>HD 530</td>
</tr>
<tr>
<td>Core i7-6700</td>
<td>4 / 8</td>
<td>3.4G / 4.0G</td>
<td>8 MB</td>
<td>DDR4-2133</td>
<td>HD 530</td>
</tr>
<tr>
<td>Core i3-7300</td>
<td>2 / 4</td>
<td>4.0G / -</td>
<td>4 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
<tr>
<td>Core i5-7400</td>
<td>4 / 8</td>
<td>3.0G / 3.5G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
<tr>
<td>Core i5-7500</td>
<td>4 / 8</td>
<td>3.4G / 3.8G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
<tr>
<td>Core i5-7600</td>
<td>4 / 8</td>
<td>3.5G / 4.1G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
<tr>
<td>Core i7-7700</td>
<td>4 / 8</td>
<td>3.6G / 4.2G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
</tbody>
</table>

### Memory

- 64GB max, UDIMM, DDR4-2400*, four 288-pin DIMM sockets, non-ECC, dual-channel capable
- *System automatically clocks down for the processors with lower memory controller

### Storage

- Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" and 3.5"
- Some: M.2 B Key Drive State (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
- Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2
- Some: Front accessible and removable HDD, 3.5", lockable via physical key
- Some: DVD-ROM, SATA 1.5Gb/s, 5.25" or slim (9.0mm)
- Some: WD Burner (DVB+RW), SATA 1.5Gb/s, 5.25" or slim (9.0mm)
- Some: Onboard SATA

### Graphics

- Intel HD Graphics 510/530/610/630 in processor, uses main memory
- DirectX¹ 12, one VGA, two DisplayPort, supports 3 independent displays, works along with discrete graphics to support more displays;
  - **Max resolution:** 4096x2304 (DP) @ 60Hz, 2048x1366 (VGA) @ 50Hz
- Some: NVIDIA GeForce® GT 740, DirectX 12, 2GB, PCIe 2.0 x 8 adapter, two DisplayPort, 35 watts,
  - **Max resolution:** 3840x2160 (DisplayPort) @ 60Hz
- Some: AMD Radeon™ R7 360, DirectX 11, 2GB, PCIe 3.0 x 8 adapter,
  - one VGA, one HDMI, 75 watts, occupies two slots;
  - **Max resolution:** 4096x2160 (HDMI) @ 24Hz, 2048x1366 (VGA) @ 85Hz
- Some: NVIDIA GeForce GTX™ 1080 (only available via special bid model),
  - DirectX 12, 8GB, PCIe 3.0 x 16 adapter, one DVI-D, one HDMI,
  - three DisplayPort, 180 watts, occupies two slots;
  - **Max resolution:** 2560x1600 (DVI-D) @ 60Hz, 4096x2160 (HDMI) @ 60Hz, 7680x4320 (with Single DP) @ 60Hz

### Monitor Cable

- Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

### Chipset

- **Intel Q270 Chipset**

### Front ports

- Four USB 3.1 Gen1, optional two USB 3.1 Type-C Gen 2 (only available via special bid), microphone (3.5mm), headphone (3.5mm)

### Rear ports

- Four USB 3.1 Gen1, optional two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional two PS/2 ports (keyboard/mouse),
- **Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm),None**
- *Depending on many factors, actual data transfer speed may be lower than theoretical speed

### Audio support

- High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)
- **WLAN**
  - Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377TA (dual band),
  - Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
  - Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band),
  - Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
  - Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165,
  - Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
  - Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265,
  - Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
  - Some: 802.11ac wireless, integrated in Wi-Fi + BT combo adapter

### Bluetooth

- **Some:** Bluetooth 4.1 wireless

### Ethernet

- Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN

### Manageability

- Intel Active Management Technology 11.0 (Intel AMT 11.0);
- Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)
- TPM (Trusted Platform Module) 2.0, TCG Certified
- * Downgrade to TPM1.2 for the models with Win10 DG Win7 32 OS

### Security chip

- Security features:
  - Security slot (in rear for optional Kensington® MicroSaver® cable)
  - Radio hard disk password
  - Smart USB protection, allows keyboard/mouse only, blocks all storage devices
  - Optional cable lock to physically lock both keyboard and mouse
  - Password-on-password
  - Administrator password
  - Boot sequence control
  - Boot without keyboard and mouse
  - Individual USB port disablement
  - Optional chassis intrusion switch

### Keyboard

- **Some:** Lenovo Calliope Keyboard (USB connector), black
- **Some:** Lenovo Traditional Keyboard (USB connector), black
- **Some:** Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black
- **Some:** Lenovo Calliope Mouse (USB connector), black
- **Some:** Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

### Mechanical

- **Tower (18L), black color, metal case**
- **(Wx Dx H):** 6.5" x 12.65" x 16.15"; 165mm X 321.35mm X 410.25mm
- Approx. 15.45 lb (7 kg), weight may vary by configuration
- Touchless cover, disk, optical, graphic card removal
- Optional carry handle, dust filter
- Bay 1: Slim external odd bay
- Bay 2: 5.25", 1.6" high, external, ODD / optional front access HDD
- Bay 3: 3.5", 1" high, internal, HDD/SSD
- Bay 4: 3.5", 1" high, internal, HDD/SSD (optional bay, bay comes with disk)
- Bay 5: 2.5", internal, HDD/SSD (optional bay)
- **Notes:** M910 Tower supports up to 3 SATA devices (ODD/HDD/SSD)
  - Slot 1: full-length full-height (length < 268mm, height < 112mm), PCle x3 0.x*16
  - Slot 2: full-length full-height (length < 268mm, height < 112mm), PCle x3 0.x
  - Slot 3: full-length full-height (length < 268mm, height < 112mm), PCle x3 0.x (x4 signal)³
  - Slot 4: no slot, only bracket for optional port extension⁴
  - M.2 card slots: Two (one for WLAN, one for SSD/Optane)

### Power supply

- Some: 180 watts, autosensing, 85% PSU
- Some: 250 watts, autosensing, 85% PSU
- Some: 400 watts, autosensing, 92% PSU (only available via special bid)

### Limited warranty

- Some: 1-year or 3-year, depot service / service upgrades available
- Some: 1-year or 3-year, limited onsite service / service upgrades available

### Preload

- Preloaded operating system:
  - Some: Windows® 7 Professional 32/64 bit
  - Some: Windows 10 Pro 64-bit
  - Some: Windows 10 Home 64-bit

### Preloaded applications (only some listed)

- Microsoft Office preloaded;
- purchase a product key to activate
- Only for Windows 10
- Lenovo Companion
- Only for Windows 7
- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- Create Recovery Media
- Adobe® Reader®
- Cyberlink PowerDVD Create

### Environment

- **ENERGY STAR® 6.1, EPEAT® Gold rating (North America), ErP Lot 3, GREENGUARD®, RoHS-compliant, TUV low noise verified (on some models)**

### Accessories

- For compatible accessories, please go to [http://www.lenovoquickpick.com](http://www.lenovoquickpick.com)
### ThinkCentre M920 SFF Platform Specifications

<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Celeron®, Intel® Pentium®, or 8th / 9th Gen Intel® Core™ i3 / i5 / i7 / i9 Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Memory</strong></td>
<td>64GB max, DDR4-2666&lt;sup&gt;®&lt;/sup&gt;, four 288-pin DIMM sockets, dual-channel capable</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>Some: Hard Drive / SATA 6.0Gb/s, 2.5&quot; or 3.5&quot;, 5400 rpm or 7200 rpm</td>
</tr>
<tr>
<td><strong>Optical</strong></td>
<td>Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s</td>
</tr>
<tr>
<td><strong>Onboard SATA</strong></td>
<td>Some: Intel® Graphic™ Memory (not support Celeron / Pentium Processor), M.2</td>
</tr>
<tr>
<td><strong>Media reader</strong></td>
<td>Some: DVD Burner (DVD+RW), SATA 1.5Gb/s Drive, slim (9.9mm)</td>
</tr>
<tr>
<td><strong>Graphics</strong></td>
<td>Four onboard SATA 6.0Gb/s connectors, RAID 0/1 support (RAID preset only available via special bid model)</td>
</tr>
</tbody>
</table>

### Audio support
- High Definition (HD) Audio, Realtek ALC233VB2 / internal speaker (2 watt)
- **WLAN**
  - Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
  - Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
  - Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
  - Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
  - Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, Intel vPro technology support, 2x2
  - Some: Bluetooth 4.2/5.0 wireless, integrated in Wi-Fi + BT combo adapter, Gigabit ethernet, Intel Ethernet Connection I219-LM(Jacksonville), Wake on LAN®
  - Some: Intel Ethernet Server Adapter I350-T4, gigabit ethernet, 4x RJ-45, PCIe x4
  - Some: BiTani BNE88, gigabit ethernet, 1x RJ-45, PCIe x1 (special bid only)

### Manageability
- Intel Active Management Technology 12 (Intel AMT 12)
- Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

### Security chip
- **Security features**
  - Security slot (in rear for optional Kensington® MicroSaver® cable)
  - Padlock loop
  - Optional cable lock to physically lock both keyboard and mouse
  - Optional chassis intrusion switch
  - Optional chassis E-Lock (special bid)
  - Power-on password
  - Administrator password
  - Hard disk password
  - Boot sequence control
  - Boot without keyboard and mouse
  - Individual USB port disablement
  - Smart USB protection, allows keyboard/ mouse only, blocks all storage devices

### Mechanical
- **Mechanical**
  - SFF (8.4L), black color, metal case
  - (WxDxH) 3.6” x 11.4” x 13.5”, 92.5mm X 290.5mm X 343.5mm
  - Approx. 13.23 lb (6 kg), weight may vary by configuration
  - Tastless cover, disk, optical, extension card removal
  - Optional dust filter
  - Bay 1: Slim external ODD bay
  - Bay 2: 3.5”, 1” high, internal, HDD/SSD
  - Bay 3: 2.5”, internal, HDD/SSD (optional bay)
  - Slot 1: Low-profile (length < 150mm, height < 65mm), PCIe 3.0 x16
  - Slot 2: Low-profile (length < 150mm, height < 65mm), PCIe 3.0 x1
  - Slot 3: Low-profile (length < 150mm, height < 65mm), PCIe 3.0 x16 (x4 signal)
  - Slot 4: No slot, only bracket for optional port extension
  - M.2 card slots: Two (one for WLAN, one for SSD/Optane)
  - Optional system floor stand for vertical orientation

### Power supply
- **Power supply**
  - 180 watts, autosensing, 85% PSU
  - 210 watts, autosensing, 85% PSU
  - 260 watts, autosensing, 92% PSU (only available via special bid)

### Preload
- Some: Windows® 10 Pro 64-bit
- Some: Windows 10 Home 64-bit

### Environment
- **ENERGY STAR®** 6.1, EPEAT® Silver rating (North America), ErP Lot 3, TCO, TUV low noise verified (coming soon, on some models), RoHS-compliant

### Accessories
- For compatible accessories, please go to http://smartfind.lenovo.com

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**Note:** The specifications above may not be available in all regions.

Lenovo, June 2019
### ThinkCentre M920 Tiny Platform Specifications

**Product Specifications Reference (PSREF)**

#### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Celeron® / Intel® Pentium® / 8th / 9th Gen Intel® Core™ i3 / i5 / i7 / i9 Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Intel® Celeron® G4900T</strong></td>
<td>2 / 2, 2.9GHz, 2 MB DDR4-2400</td>
</tr>
<tr>
<td><strong>Intel® Celeron® G4930T</strong></td>
<td>2 / 2, 3.0GHz, 2 MB DDR4-2400</td>
</tr>
<tr>
<td><strong>Intel® Pentium® Gold G5500T</strong></td>
<td>2 / 4, 3.1GHz, 4 MB DDR4-2400</td>
</tr>
<tr>
<td><strong>Intel® Pentium® Gold G5600T</strong></td>
<td>2 / 4, 3.3GHz, 4 MB DDR4-2400</td>
</tr>
<tr>
<td><strong>Intel® Pentium® Gold G5420T</strong></td>
<td>2 / 4, 3.0GHz, 4 MB DDR4-2400</td>
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<tr>
<td><strong>Intel® Core™ i3-8100T</strong></td>
<td>4 / 4, 3.2GHz, 6 MB DDR4-2400</td>
</tr>
<tr>
<td><strong>Intel® Core™ i3-8300T</strong></td>
<td>4 / 4, 3.2GHz, 8 MB DDR4-2400</td>
</tr>
<tr>
<td><strong>Intel® Core™ i5-8400T</strong></td>
<td>6 / 6, 1.7GHz, 3.3GHz, 9 MB DDR4-2400</td>
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</tr>
<tr>
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<td>6 / 6, 2.3GHz, 3.7GHz, 9 MB DDR4-2400</td>
</tr>
<tr>
<td><strong>Intel® Core™ i7-8700T</strong></td>
<td>6 / 12, 2.4GHz, 4.0GHz, 12 MB DDR4-2400</td>
</tr>
<tr>
<td><strong>Intel® Core™ i7-9300T</strong></td>
<td>4 / 4, 3.1GHz, 6 MB DDR4-2400</td>
</tr>
<tr>
<td><strong>Intel® Core™ i5-9400T</strong></td>
<td>6 / 6, 1.8GHz, 3.4GHz, 9 MB DDR4-2400</td>
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<td>6 / 6, 2.3GHz, 3.9GHz, 9 MB DDR4-2400</td>
</tr>
<tr>
<td><strong>Intel® Core™ i7-9700T</strong></td>
<td>8 / 8, 2.0GHz, 4.3GHz, 12 MB DDR4-2400</td>
</tr>
<tr>
<td><strong>Intel® Core™ i9-9900T</strong></td>
<td>8 / 16, 2.1GHz, 4.4GHz, 16 MB DDR4-2400</td>
</tr>
</tbody>
</table>

#### Memory

- 32GB max, DDR4-2666, two 260-pin SO-DIMM sockets, dual-channel capable
- System automatically clocks down for the processors with lower memory controller frequencies

#### Storage

- Some: Hard Drive / SATa 6.0G/s, 2.5"/5,400 rpm or 7200 rpm
- Some: Solid State Drive (SDD) / SATa 6.0G/s, 2.5"/5,400 rpm
- Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gbps
- Some: 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gbps

#### Optical

- Some: Intel Optane™ Memory (not support Celeron / Pentium Processor)
- M.2 DVD Burner (DVD±RW), slim (9.0mm), via USB external ODD box
- Some: DVD Burner (DVD±RW), slim (9.0mm), via USB external ODD box

#### Onboard SATA

- One onboard SATa 6.0G/s connector

#### Graphics

- Intel HD Graphics 610/630 in processor, uses main memory, DirectX 12, one DisplayPort™, one HDMI, one optional video port (2nd HDMI, VGA, 2nd DP, or USB 3.1 Gen1 with DisplayPort function), up to 3 independent displays (Max resolution: 4096x2304 (DP)@60Hz; 4096x2304 (Type-C)@60Hz; 4096x2160 (onboard HDMI)@24Hz; 2048x1536 (VGA)@50Hz)

#### Monitor cable

- Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle (for Collage Display with intel integrated graphics), or DP to HDMI 1.4 dongle

#### Chipset

- Intel® Q370 Chipset

#### Front ports (Std.)*

- One USB 3.1 Gen1 (Always On and fast charge), one USB 3.1 Type-C Gen 1, one microphone (3.5mm), one headphone / microphone combo jack (3.5mm)

#### Rear ports (Std.)*

- Two USB 3.1 Gen2, 2x USB 3.1 Gen1, 1x ethernet (RJ-45), 1x DisplayPort, 1x HDMI
- Two optional ports (mutually exclusive with PCIe card): Port 1 for VGA / 2nd DP / 2nd HDMI / serial / USB 3.1 Type-C Gen 1 with DP function; Port 2 for serial: Optional PCIe card: 2x USB 3.1 Gen1 via PCIe x1, 4x serial (9-pin) via PCIe x1, 1x Thunderbolt 3 (combo USB3.1 Type-C Gen 2 / DisplayPort) via PCIe x4

#### Audio support

- Realtek ALC233VB2 / optional internal speaker (1.5 watt or 2 watt)

#### WLAN

- Some: 11ac wireless, M.2 Card, Realtek RTL8822CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-Ac 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, Intel® vPro technology support, 2x2

#### Bluetooth

- Some: Bluetooth 4.2/5.0 wireless, integrated in Wi-Fi + BT combo adapter
- Some: Intel Ethernet Server Adapter I350-T4, gigabit ethernet, 4x RJ-45, PCIe x4

#### Environment

- ENERGY STAR® 7.0, EPEAT® Silver rating (North America), ErP Lot 3, TCO, TUV ultra low noise verified (coming soon, on some models), RoHS-compliant

#### MIL-SPEC tests


#### Preload

- Preloaded operating system
- Some: Windows® 10 Pro 64-bit
- Some: Windows 10 Home 64-bit

- Preloaded applications (only some listed)
  - Lenovo Vantage
  - Microsoft Office preloaded
  - purchase a product key to activate
  - Cyberlink PowerDVD (only for models with DVD / DVD±RW)
  - Cyberlink Power2Go (only for models with DVD±RW)
  - Linkedln
  - Intel Unite (Machine Type 10v8 models only)

#### Limited warranty

- Some: 1-year or 3-year, depot service / service upgrades available
- Some: 1-year or 3-year, limited onsite service / service upgrades available

#### Power supply

- Some: 65 watts AC/DC adapter, autosensing, 88% PSU
- Some: 90 watts AC/DC adapter, autosensing, 88% PSU
- Some: 135 watts AC/DC adapter, autosensing, 88% PSU

#### VESA mount

- Floor Stand

#### Dimensions (WxDxH)

<table>
<thead>
<tr>
<th>With VESA mount</th>
<th>Weight (Approx.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.42&quot; x 7.30&quot; x 2.48&quot;</td>
<td>3.66 lb (1.66 kg), vary by config</td>
</tr>
<tr>
<td>184.4mm x 185.38mm x 63mm</td>
<td>2.91 lb (1.32 kg), vary by config</td>
</tr>
</tbody>
</table>

#### Optional system floor stand for vertical orientation

- Some: 65 watts AC/DC adapter, autosensing, 88% PSU
- Some: 90 watts AC/DC adapter, autosensing, 88% PSU
- Some: 135 watts AC/DC adapter, autosensing, 88% PSU

- Optional VESA mount bracket kit, supports VESA 75mm and 100mm
- Optional system floor stand for vertical orientation

Note: The specifications above may not be available in all regions.

Lenovo, June 2019
ThinkCentre M920 Tower Platform Specifications

Processor
Intel® Celeron®, Intel Pentium®, or 8th/9th Gen Intel Core™ i3 / i5 / i7 / i9 Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency Base/Max(GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core i3-8100</td>
<td>4 / 4</td>
<td>3.6G</td>
<td>6 MB</td>
<td>DDR4-2400</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Core i3-8300</td>
<td>4 / 4</td>
<td>3.7G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Core i3-8400</td>
<td>6 / 6</td>
<td>2.8G / 4.0G</td>
<td>9 MB</td>
<td>DDR4-2466</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Core i5-8500</td>
<td>6 / 6</td>
<td>3.0G / 4.1G</td>
<td>9 MB</td>
<td>DDR4-2466</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Core i5-8600</td>
<td>6 / 6</td>
<td>3.1G / 4.3G</td>
<td>9 MB</td>
<td>DDR4-2466</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Core i7-8700</td>
<td>6 / 12</td>
<td>3.2G / 4.6G</td>
<td>12 MB</td>
<td>DDR4-2466</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Core i7-9100</td>
<td>4 / 4</td>
<td>3.6E / 4.2G</td>
<td>6 MB</td>
<td>DDR4-2466</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Core i7-9300</td>
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<td>9 MB</td>
<td>DDR4-2466</td>
<td>UHD 630</td>
</tr>
</tbody>
</table>

Memory
64GB max, DDR4-2666, four 288-pin DIMM sockets, dual-channel capable
*System automatically clocks down for the processors with lower memory controller.

Storage
Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32GB/s
* SSD M.2 (2242), PCIe NVMe only supports PCIe 3.0 x 2, 16GB/s
Some: Intel Optane Memory (not support Celeron / Pentium Processor), M.2 SSD

Optical
Optional DVD-ROM or DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)

Onboard SATA
Four onboard SATA 6.0Gb/s connectors, RAID 0/1 support (RAID preset only available via special bid model)

Media reader
Optional 7-in-1 media reader

Graphics
Intel UHD Graphics 610/630 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™, supports 3 independent displays, works along with discrete graphics to support more displays:
Max resolution: 4096x2304 (DP) @ 60Hz; 2048x1536 (VGA) @ 50Hz
Some: NVIDIA GeForce® GT 730, DirectX 12, 2GB, PCIe 2.0 x16 adapter, two DisplayPort, 35 watts;
Max resolution: 3840x2160 (DisplayPort) @ 60Hz;
Some: NVIDIA GeForce GTX 1060 (special only), DirectX 12, 6GB, PCIe 3.0 x16 adapter, 1x DVI-D, 1x HDMI, 3x DP, 120 watts, occupies two slots;
Max resolution: 2560x1600 (DVI-D) @ 60Hz; 4096x2160 (HDMI) @ 60Hz
Some: NVIDIA GeForce GTX 1090 @60Hz

Monitor Cable
Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle (for Collage Display with integrated Intel graphics), or DP to HDMI 1.4 dongle

Chipset
Intel® Q370 Chipset

Front ports (Std.) 2x USB 3.1 Gen2, 2x USB 3.1 Gen1, 1x USB 3.1 Type-C Gen1 (15W charging), 1x microphone (3.5mm), 1x headphone / microphone combo jack (3.5mm)

Front ports (Opt.) 1x optional media reader

Rear ports (Std.) 4x USB 3.1 Gen1, 1x serial (9-pin), 1x ethernet (RJ-45), 1x VGA, 2x DisplayPort, 1x line-out (3.5mm)

Rear ports (Opt.) 2x USB 2.0, 2x USB 3.1 Gen1 via PCIe x1, 2x USB 3.1 Type-C Gen2 via PCIe x4 (special only bid), 1x 2nd serial (9-pin), 4x serial (9-pin) via PCIe x1, 1x parallel (25-pin), 2x PS/2 ports (keyboard/mouse), 1x Thunderbolt 3 (combo)

USB3.1 Type-C Gen 2 / DisplayPort via PCIe x4 (available on 09/30/2018), additional RJ-45 and video ports available on optional graphics or ethernet card
* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support
High Definition (HD) Audio, Realtek ALC2323VB2 / internal speaker (2 watt)

WLAN
Some: 11ac Wi-Fi + BT 4.2, M.2 Card, Realtek RTL8821CE (dual band), 1x1
Some: 11ac Wi-Fi + BT 4.2, M.2 Card, Realtek RTL8822CE (dual band), 2x2
Some: 11ac Wi-Fi + BT 4.2, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, 2x2
Some: 11ac Wi-Fi + BT 5.0, M.2 Card, Intel Wireless-AC 9560 (dual band), Intel vPro technology support, 2x2

Bluetooh (BT) 4.2/5.0 wireless, integrated in Wi-Fi + BT combo adapter
Gigabit ethernet, Intel Ethernet Connection I219-LM(Jacksonville), Wake on LAN®
Some: Intel Ethernet Server Adapter I350-T4, gigabit ethernet, 4x RJ-45, PCIe x4
Some: Billant BNE888, gigabit ethernet, 1x RJ-45, PCIe x1 (special bid only)

Manageability
Inte Active Management Technology 12 (Intel AMT 12);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip
Discrete TPM 2.0, TCG Certified

Security features
● Security slot (in rear for optional Kensington® MicroSaver® cable)
● Power-on password
● Hard disk password
● Boot sequence control
● Boot without keyboard and mouse
● Individual USB port disablement
● Smart USB protection, allows keyboard/ mouse only, blocks all storage devices

Mechanical
● Tower (18L), black color, metal case
● (WxDxH) 6.5" X 12.65" X 16.15"; 165mm X 321.35mm X 410.25mm
● Approx. 15.45 lb (7 kg), weight may vary by configuration
● Toolless cover, disk, optical, extension card removal
● Optional carry handle, dust filter
Bay 1: Slim external ODD bay
Bay 2: 5.25", 1.63" high, external, ODD / optional front access HDD
Bay 3: 3.5", 1.0" high, internal, HDD/SSD
Bay 4: 3.5", 1.0" high, internal, HDD/SSD (optional bay, bay comes with disk)
Bay 5: 5.25", internal, HDD/SSD (optional bay)

Power supply
Some: 180 watts, autosensing, 85% PSU
Some: 250 watts, autosensing, 85% PSU
Some: 400 watts, autosensing, 92% PSU (available only via special bid)

Limited warranty
Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available

Preload
Some: Windows® 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Energy
ENERGY STAR® 6.1, EPEAT® Silver rating (North America), ErP Lot 3, TCO, TUV low noise verified (coming soon, on some models), RoHS-compliant

Accessories
For compatible accessories, please go to http://smartfind.lenovo.com

Note: The specifications above may not be available in all regions.

Lenovo, June 2019
ThinkCentre M920x Tiny Platform Specifications

Product Specifications Reference (PSREF)

Processor
Intel® Celeron®, Intel Pentium®, or 8th / 9th Gen Intel Core™ i3 / i5 / i7 / i9 Processor

Memory
32GB max, DDR4-2666*, two 260-pin SO-DIMM sockets, dual-channel capable

Storage
Some: Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 SSD (supplied) up to two M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s, RAID 0/1 readable

Optical
Some: Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2
Some: DVD-ROM, slim (9.0mm), via USB external ODD box
Some: DVD Burner (DVD+RW), slim (9.0mm), via USB external ODD box

Onboard SATA
One onboard SATA 6.0Gb/s connector

Graphics
Intel HD Graphics 610/630 in processor, uses main memory, DirectX® 12, one DisplayPort™, one HDMI, one optional video port (2nd HDMI, VGA, 2nd DP, or USB 3.1 Type-C Gen1 with DisplayPort function), up to 3 independent displays; Max resolution: 5120x2880@60Hz (up to 2 Mini DisplayPort); 4096x2160@56Hz (up to 4 Mini DisplayPort)

Monitor cable
4x Mini DisplayPort, up to 4 independent displays, works along with onboard DP and HDMI to support up to 6 independent displays; Max resolution: 5120x2880@60Hz (up to 2 Mini DisplayPort); 4096x2160@56Hz (up to 4 Mini DisplayPort)

Chipset
Intel® 7th / 8th Gen Intel® Core™ i3 / i5 / i7 / i9 Processor

Audio support
Realtek ALC3320V2 / optional internal speaker (1.5 watt or 2 watt)

WLAN
Some: 11ac Wi-Fi + BT 4.2, M.2 Card, Realtek RTL8822CE (dual band), 1x1
Some: 11ac Wi-Fi + BT 4.2, M.2 Card, Realtek RTL8822BE (dual band), 2x2
Some: 11ac Wi-Fi + BT 4.2, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac Wi-Fi + BT 4.2, M.2 Card, Intel Dual Band Wireless-AC 2802, 2x2
Some: 11ac Wi-Fi + BT 5.0, M.2 Card, Intel Wireless-AC 9560 (dual band), Intel vPro technology support, 2x2

BLUETOOTH
Some: Bluetooth 4.2/5.0 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet
Intel Ethernet Connection 1219-LM/Jacksonville, Wake on LAN™

Security chip
Intel Active Management Technology 12 (Intel AMT 12);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)
Discrete TPM 2.0, TCG Certified

Security features
Security lock (in rear for optional Kensington™ MicroSaver™ cable)
Boot sequence control
Chassis intrusion switch
Power-on password
Administrator password
Smart USB port
Hard disk protection

Keyboard
Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black
Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo FingerPrint Mouse (USB connector), Windows Hello support, black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Mouse
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Mechanical
Tiny (1L), black color; metal case
Touchless (not adjustable)
Touchless chassis open (need optional touchless screw)
Touchless SSD, memory removal
Optional dust filter

Dimensions (WxHxD)

VESA mount
Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount system floor stand for vertical orientation

Floor Stand
Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Power supply
135 watts AC/DC adapter, autoselecting, 88% PSU

Limited warranty
Some: 1-year or 3-year depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available

Preload
Some: Windows® 10 Pro 64-bit
Some: Windows® 10 Home 64-bit

Environment
ENERGY STAR® 7.0, EPEAT® Silver rating (North America), ErP Lot 3, TCO, TUV ultra low noise verified (coming soon, on some models), RoHS-compliant

MIL-SPEC test
MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus, Solar Radiation)

Accessories
For compatible accessories, please go to http://smartfind.lenovo.com

Note: The specifications above may not be available in all regions.

Lenovo, June 2019
**ThinkSmart Hub 500 Platform Specifications**

<table>
<thead>
<tr>
<th>Positioning</th>
<th>Purpose-built Skype Room Systems device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>7th Gen Intel Core™ i5 Processor with vPro</td>
</tr>
<tr>
<td>Cache</td>
<td>Core i5-7500T 4 / 4 2.7G / 3.3G 6 MB DDR4-2400 HD 630</td>
</tr>
<tr>
<td>Memory</td>
<td>4GBx2, DDR4-2400, two 260-pin SO-DIMM sockets, dual-channel capable</td>
</tr>
<tr>
<td>Storage</td>
<td>128GB M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32GB/s</td>
</tr>
<tr>
<td>Graphics Display</td>
<td>Intel HD Graphics 630 in processor, uses main memory, DirectX® 12 11.6&quot; (294.64mm) Full HD 1080p (1920x1080) TFT color, wide viewing angle (+/- 85°), LED backlight, 300 nits, 16:9 aspect ratio, 800:1 contrast ratio, anti-glare, smudge resistant</td>
</tr>
<tr>
<td>Multi-touch Sensor</td>
<td>Supports 10-point touch, OGS IR Presence/Motion sensor, automatically dim / brighten display (Detection angle: +/- 45% (from display); detection distance: 3 meters at minimum)</td>
</tr>
<tr>
<td>LED indicators</td>
<td>360 degree LED ring on hinge neck, indicates Skype status for all users in the room; power LED on power button</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel Q270 Chipset</td>
</tr>
<tr>
<td>Ports*</td>
<td>Four USB 3.1 Gen1 (Type A), two HDMI-out, one HDMI-in (1920x1080@60Hz at maximum), one ethernet (RJ-45), one headphone / microphone combo jack (3.5mm), one power connector</td>
</tr>
<tr>
<td>M.2 card slot</td>
<td>Two M.2 Card slots (one for WLAN, one for SSD)</td>
</tr>
<tr>
<td>Audio support</td>
<td>Dual 4W speakers, 2 omnidirectional microphones for 360 degree audio capture</td>
</tr>
<tr>
<td>WLAN®</td>
<td>11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1 combo adapter, Intel vPro technology support, 2x2 Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®</td>
</tr>
<tr>
<td>Manageability</td>
<td>Intel Active Management Technology 11.0 (Intel AMT 11.0), Intel vPro technology</td>
</tr>
<tr>
<td>Security chip</td>
<td>TPM (Trusted Platform Module) 2.0, TCG Certified</td>
</tr>
<tr>
<td>Security features</td>
<td>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</td>
</tr>
<tr>
<td></td>
<td>● Power-on, admin, hard disk password boot sequence control</td>
</tr>
<tr>
<td></td>
<td>● Boot without keyboard and mouse</td>
</tr>
<tr>
<td></td>
<td>● USB port disablement</td>
</tr>
<tr>
<td>Keyboard Mouse</td>
<td>None None</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Business black color (WxDxH) 7.60&quot; X 10.98&quot; X 7.02&quot;; 193.25mm X 278.9mm X 178.45mm Approx. 5.51 lb (2.5 kg)</td>
</tr>
<tr>
<td></td>
<td>● Secure Cable Management Door, secures physical ports and prevents cables being accidentally disconnected</td>
</tr>
<tr>
<td></td>
<td>● 360 degree rotatable Display</td>
</tr>
<tr>
<td>Power supply</td>
<td>90 watts adapter, autosensing, 88% efficiency</td>
</tr>
<tr>
<td>Limited warranty¹</td>
<td>3-year, limited onsite service / service upgrades available</td>
</tr>
<tr>
<td>Preload</td>
<td>Preloaded operating system Windows® 10 IoT Enterprise CBB X64 (RS3) Preloaded applications Microsoft Skype Room Systems App</td>
</tr>
<tr>
<td>Certification</td>
<td>Skype for Business Group Certified</td>
</tr>
<tr>
<td>Environment</td>
<td>ErP Lot 26, GREENGUARD® certified, RoHS, WEEE</td>
</tr>
<tr>
<td>Accessories</td>
<td>For compatible accessories, please go to <a href="http://www.lenovoquickpick.com">http://www.lenovoquickpick.com</a></td>
</tr>
</tbody>
</table>

See footnotes for more detailed information © Lenovo (Hub500-Spec) March 2018
### Positioning
Purpose-built Zoom Rooms device

### Processor
7th Gen Intel Core™ i5 Processor with vPro

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency Base/Max(GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core i5-7500T</td>
<td>4 / 4</td>
<td>2.7G / 3.3G</td>
<td>6 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
</tbody>
</table>

### Memory
4GBx2, DDR4-2400, two 260-pin SO-DIMM sockets, dual-channel capable

### Storage
128GB M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

### Graphics/Display
Intel HD Graphics 630 in processor, uses main memory, DirectX® 12 11.6" (294.64mm) Full HD 1080p (1920x1080) TFT color, wide viewing angle (+/- 85°), LED backlight, 300 nits, 16:9 aspect ratio, 800:1 contrast ratio, anti-glare, smudge resistant

### Multi-touch Sensor
Supports 10-point touch, OGS

### LED indicators
360 degree LED ring on hinge neck, indicates Skype status for all users in the room; power LED on power button

### Chipset
Intel Q270 Chipset

### Ports*
Four USB 3.1 Gen1 (Type A), two HDMI-out, one HDMI-in (1920x1080@60Hz at maximum), one ethernet (RJ-45), one headphone / microphone combo jack (3.5mm), one power connector

*M Depending on many factors, actual data transfer speed may be lower than theoretical speed

### M.2 card slot
Two M.2 Card slots (one for WLAN, one for SSD)

### Audio support
Dual 5W speakers, 2 omnidirectional microphones for 360 degree audio capture

### WLAN
11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1* combo adapter, Intel vPro technology support, 2x2 Bluetooth 4.1* wireless, integrated in Wi-Fi + Bluetooth combo adapter

* Hardware supports Bluetooth 4.2, but Win10 RS3 only supports Bluetooth 4.1

### Ethernet
Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

### Manageability
Intel Active Management Technology 11.0 (Intel AMT 11.0), Intel vPro technology

### Security chip
TPM (Trusted Platform Module) 2.0, TCG Certified

### Security features
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Secure cable management door
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

### Keyboard/Mouse
None

### Mechanical
- Business black color
- (WxDxH) 7.60" X 10.98" X 7.02"; 193.25mm X 278.9mm X 178.45mm
- Approx. 5.51 lb (2.5 kg)
- Secure Cable Management Door, secures physical ports and prevents cables being accidentally disconnected
- 360 degree rotatable Display

### Power supply
90 watts adapter, autosensing, 88% efficiency

### Limited warranty
3-year, limited onsite service / service upgrades available

### Preload
Preloaded operating system
Windows® 10 IoT Enterprise SAC X64 (RS5)

### Preloaded applications
Zoom Rooms Application

### Certification
Zoom Recommended Hardware

### Environment
ErP Lot 26, GREENGUARD™ certified, RoHS, WEEE

### Accessories
For compatible accessories, please go to [http://smartfind.lenovo.com](http://smartfind.lenovo.com)

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See footnotes for more detailed information

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August 2019
**ThinkCentre Tiny-in-One (TIO) 22**

**Model:** 10LKPAR6++ / 10LKPAT6++

**Form factor:** Tiny-in-One, offers a full All-In-One experience when optional Tiny slots into the back of TIO 22, clean cabling and effortless setup

**Compatible Tiny:** M900 Tiny, M700 Tiny, M600 Tiny, M93/p Tiny*, M83 Tiny, M73 Tiny*, or M53 Tiny, Chromebox

* Non-TIO models can't be turned on by pressing power button of TIO 22

**Panel:** TFT-LCD, In-Plane Switching (IPS), White LED backlight

**Viewable image size:** 21.5” (546.1mm) diagonal

**Max view area (W x H):** 18.74” x 10.54” / 476.06mm x 267.79mm

**Bezel Width:** Top / Side: 2mm, Bottom: 16.3mm

**Optimum resolution:** 1920x1080

**Aspect ratio:** 16:9

**Pixel pitch:** 0.24795mm

**Dot/ Pixel per inch:** 102.4 dpi

**Brightness:** 250 nits or cd/m² (typical)

**Contrast ratio:** 1000:1 (typical)

**Pixel response time:** 7ms

**Color gamut:** 72%

**Anti-glare:** Anti-glare

**Viewing angle at 10:1 CR:** 178° (+/- 89°) horizontal, 178° (+/- 89°) vertical

**Preset resolutions:**
- 640x350 @ 70Hz
- 640x480 @ 60Hz, 66Hz, 72Hz, 75Hz
- 720x400 @ 70Hz
- 800x600 @ 60Hz, 72Hz, 75Hz
- 1024x768 @ 60Hz, 70Hz, 75Hz
- 1152x864 @ 75Hz
- 1280x800 @ 60Hz
- 1280x1024 @ 60Hz, 72Hz, 75Hz
- 1366x768 @ 60Hz
- 1440x900 @ 60Hz, 75Hz
- 1600x1200 @ 60Hz, 70Hz, 75Hz
- 1680x1050 @ 60Hz
- 1920x1080 @ 60Hz

**Presets / user settings:** Presets: 25, user settings: 25

**On screen display:** On screen display with digital user controls (8 languages)

**Control features:**
- Mode-switching (TIO mode / standalone monitor mode, switches video / audio / USB input sources) / Back button, Left shift button, Right shift button
- Brightness button, Selection button / Menu button, Power button

**Tiny-in-One Power On:**
- Pressing Alt + P on keyboard or pressing Power button positioned on TIO can turn on both TIO and Tiny (only some Tiny support, see compatible list)

**Front ports:** Two USB 3.0 or two USB 2.0 (when M73 or M53 installed or USB 2.0 connected via USB upstream port), one headphone / microphone combo jack (3.5mm)

**Side ports:**
- Side ports: USB 3.0 upstream port, one power connector
- Undetachable 3-in-1 cable (Power connecter, USB 3.0 [supports USB 3.0/USB 2.0], DisplayPort 1.2), only for connecting to Tiny installed (optional)

**Internal Speaker:** 1.5 watt x1

**Security:** Security keyhole for attachment of optional cable lock (Kensington® lock compatible), locks optional Tiny with TIO 22 together, more security features offered by Tiny installed (optional)

**Mechanical:**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>TIO 22 without stand</th>
<th>TIO 22 with stand</th>
</tr>
</thead>
<tbody>
<tr>
<td>W x D x H (inch)</td>
<td>19.25 x 2.65 x 12.47</td>
<td>19.25 x 9.90 x 14.02 - 18.35</td>
</tr>
<tr>
<td>W x D x H (mm)</td>
<td>489.06 x 67.2 x 316.78</td>
<td>489.06 x 251.4 x 356.07 - 466.07</td>
</tr>
</tbody>
</table>

**Weight:** (approximately) 11.27 lb / 5.11 kg (with stand)

**Mounting features:** Wall or desk mounting using the extend arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)

**Adjustable stand:** Tilt: 35° back, -5° forward; lift: 4.3” (110mm); swivel: +/-45°

**Power supply:** 90 watts AC/DC adapter, 88% PSU, universal

**Power consumption:** 15.57 watts typical, 35 watts maximum, <0.5 watts standby / suspend

**Limited warranty:** 3-years. Customer Carry-In or Mail-In via Rapid Replacement Service

**VESA-compliant:** VESA DDC2B/C, VESA DPMS-compliant

**Ergonomics:**
- ISO 9241-307
- FCC Class B
- TCO 7.0, TCO Edge 2.0, WEEE, RoHS, ENERGY STAR® 7.0

**Energy Star:**
- EPEAT™ Gold rating, ULE Gold, TUV, VOC

**Windows certifications:**
- Windows 7, Windows 8/8.1, and Windows 10 certified

**Ship group:**
- TIO 22 (Monitor), detachable stand, AC/DC power adapter, power cord, user’s guide and driver CD, quick start and safety poster

**Accessories:** For compatible accessories, please go to http://www.lenovoquickpick.com

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See footnotes for more detailed information

© Lenovo (TIO22) April 2016
## ThinkCentre Tiny-in-One (TIO) 22 Gen3

<table>
<thead>
<tr>
<th>Model</th>
<th>Non-touch model: 10R1PAR1++/10R1PAT1++; Touch model: 10R0PAR1++/10R0PAT1++</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form factor</td>
<td>Tiny-in-One. offers a full All-In-One experience when optional Tiny slots into the back of TIO, clean cabling and effortless setup</td>
</tr>
<tr>
<td>Compatible Tiny</td>
<td>M910 / M710 / M900 / M700 / M600 / M715 / M93p / M83 / M73 / M53 / Chromebox Tiny</td>
</tr>
<tr>
<td></td>
<td>Non-TIO models can’t be turned on by pressing power button of TIO</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, In-Plane Switching technology**, White LED backlight Notes: In-Plane Switching may refer to VA, PLS, and IPS panels</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>21.5” (54.6mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>18.74” x 10.54” / 476.1mm x 267.8mm</td>
</tr>
<tr>
<td>Bezel Width</td>
<td>Top: Side: 2mm, Bottom: 22.1mm</td>
</tr>
<tr>
<td>Native resolution</td>
<td>1920x1080</td>
</tr>
<tr>
<td>Multi-touch</td>
<td>Optional 10-point multi-touch, supports Wake on Touch</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.24795mm</td>
</tr>
<tr>
<td>Dot/Pixel per Inch</td>
<td>102.4 dpi</td>
</tr>
<tr>
<td>Brightness</td>
<td>250 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1000:1 (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>14ms (default), over drive to 4ms, 6ms</td>
</tr>
<tr>
<td>Color gamut</td>
<td>72%</td>
</tr>
<tr>
<td>Anti-reflective</td>
<td>Anti-glare</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>178° (+/- 89°) horizontal, 178° (+/- 89°) vertical</td>
</tr>
<tr>
<td>Preset resolutions</td>
<td>640x350 @ 70Hz</td>
</tr>
<tr>
<td></td>
<td>640x480 @ 60Hz, 66Hz, 72Hz, 75Hz</td>
</tr>
<tr>
<td></td>
<td>720x400 @ 70Hz</td>
</tr>
<tr>
<td></td>
<td>800x600 @ 60Hz, 66Hz, 72Hz, 75Hz</td>
</tr>
<tr>
<td></td>
<td>1024x768 @ 60Hz, 70Hz, 75Hz</td>
</tr>
<tr>
<td></td>
<td>1152x864 @ 75Hz</td>
</tr>
<tr>
<td></td>
<td>1280x800 @ 60Hz</td>
</tr>
<tr>
<td></td>
<td>1280x1024 @ 60Hz, 72Hz, 75Hz</td>
</tr>
<tr>
<td></td>
<td>1366x768 @ 60Hz</td>
</tr>
<tr>
<td></td>
<td>1440x900 @ 60Hz, 75Hz</td>
</tr>
<tr>
<td></td>
<td>1600x1200 @ 60Hz, 70Hz, 75Hz</td>
</tr>
<tr>
<td></td>
<td>1680x1050 @ 60Hz</td>
</tr>
<tr>
<td></td>
<td>1920x1080 @ 60Hz</td>
</tr>
<tr>
<td>Presets / user settings</td>
<td>Presets: 25; user settings: 25</td>
</tr>
<tr>
<td>On screen display</td>
<td>On screen display with digital user controls (8 languages)</td>
</tr>
<tr>
<td>Control features</td>
<td>Front: Exit button, Left / Mode-switching button (TIO / monitor mode), Right / Brightness button, Enter / Menu button, Power button Bottom: Volume up button, Volume down button</td>
</tr>
<tr>
<td>Tiny-in-One Power On</td>
<td>Pressing Alt + P on keyboard or pressing Power button positioned on TIO can turn on both TIO and Tiny (only some Tiny support, see compatible list) One USB 3.1 Gen1 / USB 2.0 (when M73 or M53 installed or USB 2.0 connected via USB upstream port) Notes: The USB port is only available when a Tiny is installel or a PC is connected via USB upstream port</td>
</tr>
<tr>
<td>Side ports (TIO)</td>
<td>Side ports offered by installed Tiny (optional)</td>
</tr>
<tr>
<td>Side ports (Tiny)</td>
<td>One DisplayPort in port, one USB upstream port, one power connector</td>
</tr>
<tr>
<td>Rear ports 3-in-1 Cable</td>
<td>Undetachable 3-in-1 cable (Power connector, USB [supports USB 3.1 Gen1 / USB 2.0], DisplayPort), only for connecting to Tiny installed (optional)</td>
</tr>
<tr>
<td>Camera Internal Speaker</td>
<td>720p camera with dual microphone for VOIP, LED indicator</td>
</tr>
<tr>
<td>Security</td>
<td>Security keyhole for attachment of optional cable lock (Kensington® lock compatible), locks optional Tiny with TIO together, more security features offered by Tiny installed (optional)</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Dimensions</td>
</tr>
<tr>
<td>W x D x H (inch)</td>
<td>19.26 x 2.85 x 13.35</td>
</tr>
<tr>
<td>W x D x H (mm)</td>
<td>489.3 x 72.5 x 339</td>
</tr>
<tr>
<td>Weight (Approx.)</td>
<td>7.01 lb / 3.19 kg</td>
</tr>
</tbody>
</table>

Mounting features: Wall or desk mounting using the extend arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)

Adjustable stand:
- Tilt: 30° back, -5° forward;
- swivel: +/-45°;
- Pivot: clockwise 0° to 90°

Power supply: 90 watts AC/DC adapter, 88% PSU, universal

Power consumption:
- 19 watts typical, 32 watts maximum, <0.5 watts standby / suspend

Limited warranty: 3-years, Customer Carry-In or Mail-In via Rapid Replacement Service

Windows certifications:
- Windows 7 and Windows 10 certified

EPEAT: VESA-compliant
- VESA DDC2B/Ci, VESA DPMS-compliant

Ergonomics:
- ISO 9241-307, TUV Eye Comfort certified

Emission standards:
- FCC Class B
- TCO 7.0, TCO Edge 2.0, WEEE, RoHS, ENERGY STAR® 7.0, EPEAT™ Silver rating, ULE Gold, TUV, VOC

Windows certifications:
- Windows 7 and Windows 10 certified

Ship group:
- TIO (Monitor), detachable stand, AC/DC power adapter, power cord, user’s guide and driver CD, quick start and safety poster

For compatible accessories, please go to http://www.lenovoquickpick.com
ThinkCentre Tiny-in-One (TIO) 24

Model 10LLPAR6++ / 10LLPAT6++

Form factor Tiny-in-One, offers a full All-In-One experience when optional Tiny slots into the back of TIO 24, clean cabling and effortless setup

Compatible Tiny: M900 Tiny, M700 Tiny, M600 Tiny, M93/p Tiny*, M83 Tiny, M73 Tiny*, or M53 Tiny, Chromebox

* Non-TIO models can't be turned on by pressing power button of TIO 24

Panel TFT-LCD, In-Plane Switching (IPS), White LED backlight

Viewable image size 23.8" (604.7mm) diagonal

Max view area (W x H) 21.06" x 12.32" / 535.0mm x 313.0mm

Bezel Width Top / Side: 2mm, Bottom: 16.3mm

Optimum resolution 1920x1080

Aspect ratio 16:9

Pixel pitch (mm) 0.2745mm

Dot/ Pixel per Inch 92.6 dpi

Brightness 250 nits or cd/m² (typical)

Contrast ratio 1000:1 (typical)

Pixel response time 7ms

Color gamut 72%

Anti-reflective Anti-glare

Viewing angle at 10:1 CR178° (+/- 89°) horizontal, 178° (+/- 89°) vertical

Preset resolutions 640x350 @ 70Hz

640x480 @ 60Hz, 66Hz, 72Hz, 75Hz

720x400 @ 70Hz

800x600 @ 60Hz, 72Hz, 75Hz

1024x768 @ 60Hz, 70Hz, 75Hz

1152x864 @ 75Hz

1280x800 @ 60Hz

1280x1024 @ 60Hz, 72Hz, 75Hz

1366x768 @ 60Hz

1440x900 @ 60Hz, 75Hz

1600x1200 @ 60Hz, 70Hz, 75Hz

1680x1050 @ 60Hz

1920x1080 @ 60Hz

Presets / user settings Presets: 25, user settings: 25

On screen display On screen display with digital user controls (8 languages)

Control features Mode-switching (TIO mode / standalone monitor mode, switches video / audio / USB input sources) / Back button, Left shift button, Right shift / Brightness button, Selection button / Menu button, Power button

Tiny-in-One Power On Pressing Alt + P on keyboard or pressing Power button positioned on TIO can turn on both TIO and Tiny (only some Tiny support, see compatible list)

Front ports Two USB 3.0 or two USB 2.0 (when M73 or M53 installed or USB 2.0 connected via USB upstream port), one headphone / microphone combo jack (3.5mm)

- The USB ports are only available when a Tiny is installed or a PC is connected via USB upstream port

Side ports Side ports offered by installed Tiny (optional)

Rear ports One DisplayPort 1.2 port, one USB upstream port, one power connector

3-in-1 Cable Undetachable 3-in-1 cable (Power connector, USB 3.0 [supports USB 3.0/ USB 2.0], DisplayPort 1.2), only for connecting to Tiny installed (optional)

Internal Speaker 1.5 watt x 1

Security Security keyhole for attachment of optional cable lock (Kensington® lock compatible), locks optional Tiny with TIO 24 together, more security features offered by Tiny installed (optional)

Mechanical

Dimensions | TIO 24 without stand | TIO 24 with stand |
---|---|---|
W x D x H (inch) | 21.24 x 2.7 x 13.64 | 21.24 x 9.90 x 15.16 - 19.46 |
W x D x H (mm) | 539.6 x 68.2 x 346.45 | 539.6 x 251.4 x 385.08 - 495.08 |

Weight (approximately) 12.25 lb / 5.57 kg (with stand)

Mounting features Wall or desk mounting using the extend arm or third-party accessories meeting the VESA FPMPM® (100mm mount)

Adjustable stand Tilt: 35° back, -5° forward; lift: 4.3" (110mm); swivel: +/-45°

Power supply 90 watts AC/DC adapter, 88% PSU, universal

Power consumption 16.7 watts typical, 35 watts maximum, <0.5 watts standby / suspend

Limited warranty 3-years, Customer Carry-In or Mail-In via Rapid Replacement Service

VESA-compliant VESA DDC2B/Ci, VESA DPMS-compliant

Ergonomics ISO 9241-307

Emission standards FCC Class B

Environmental TCO 7.0, TCO Edge 2.0, WEEE, RoHS, ENERGY STAR® 7.0

EPEAT™ Gold rating, ULE Gold, TUV, VOC

Windows certifications Windows 7, Windows 8/8.1, and Windows 10 certified

Ship group TIO 24 (Monitor), detachable stand, AC/DC power adapter, power cord, user's guide and driver CD, quick start and safety poster

Accessories For compatible accessories, please go to http://www.lenovoquickpick.com

ThinkCentre Tiny-in-One 24 Compatible list

<table>
<thead>
<tr>
<th>Model</th>
<th>M900 Tiny, M700 Tiny, M600 Tiny, M93/p Tiny, M83 Tiny, M53 Tiny</th>
<th>M93/p Tiny, M73 Tiny</th>
<th>Chromebox</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn on TIO and Tiny together via</td>
<td>All models</td>
<td>All models</td>
<td>Not support</td>
</tr>
<tr>
<td>Turn on TIO and Tiny together via TIO Power Button</td>
<td>All models</td>
<td>TIO models</td>
<td>All models</td>
</tr>
</tbody>
</table>

See footnotes for more detailed information

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## ThinkCentre Tiny-in-One (TIO) 24 Gen3

**Product Specifications Reference (PSREF)**

### Model
- **Non-touch model:** 10QYPAR1++/10QYPAT1++;
- **Touch model:** 10QXPAR1++/10QXPAT1++

### Form factor
- Tiny-in-One, offers a full All-In-One experience when optional Tiny slots into the back of TIO, clean cabling and effortless setup
- All models

### Compatible Tiny:
- M910 / M710 / M900 / M700 / M600 / M715 / M93p / M83 / M73” / M53 / Chromebox Tiny
- *Non-TIO models can't be turned on by pressing power button of TIO*

### Panel
- TFT-LCD, In-Plane Switching technology**, White LED backlight
- **Notes:** In-Plane Switching may refer to VA, IPS panels

#### Viewable image size
- 23.8” (604.7mm) diagonal

#### Max view area (W x H)
- 21.06” x 12.32” / 535.0mm x 313.0mm

### Bezel Width
- Top / Side: 2mm, Bottom: 22.1mm

### Native resolution
- **1920x1080**

#### Multi-touch
- Optional 10-point multi-touch, supports Wake on Touch
- **Aspect ratio:** 16:9

#### Pixel pitch (mm)
- 0.2745mm

#### Brightness
- 250 nits or cd/m² (typical)

#### Contrast ratio
- 1000:1 (typical)

#### Pixel response time
- 14ms (default), over drive to 4ms, 6ms

### Color gamut
- 72%

### Anti-reflective
- Anti-glare

### Viewing angle at 10:1 CR
- Horizontal, 178° (+/- 89°) vertical

#### Preset resolutions
- 640x480 @ 70Hz
- 720x400 @ 70Hz
- 800x600 @ 60Hz, 72Hz, 75Hz
- 1024x768 @ 60Hz, 70Hz, 75Hz
- 1152x864 @ 75Hz
- 1280x800 @ 60Hz
- 1366x768 @ 60Hz
- 1440x900 @ 60Hz, 72Hz, 75Hz
- 1600x1200 @ 60Hz, 70Hz, 75Hz
- 1680x1050 @ 60Hz
- 1920x1080 @ 60Hz

### Presets / user settings
- Presets: 25; user settings: 25

#### On screen display control features
- On screen display with digital user controls (8 languages)
- Front: Exit button, Left / Mode-switching button (TIO / monitor mode), Right / Brightness button, Enter / Menu button, Power button
- Bottom: Volume up button, Volume down button

### Tiny-in-One Power On
- Pressing Alt + P on keyboard or pressing Power button positioned on TIO can turn on both TIO and Tiny (only some Tiny support, see compatible list)

#### Side ports (TIO)
- One USB 3.1 Gen1 / USB 2.0 (when M73 or M53 installed or USB 2.0 connected via USB upstream port)
- **Notes:** The USB port is only available when a Tiny is installed or a PC is connected via USB upstream port

#### Side ports (Tiny)
- Side ports offered by installed Tiny (optional)

#### Rear ports
- One DisplayPort in port, one USB upstream port, one power connector
- Undetachable 3-in-1 cable (Power connector, USB [supports USB 3.1 Gen1 / USB 2.0], DisplayPort), only for connecting to Tiny installed (optional)

### Camera
- 1080p camera with digital microphone for VOIP, LED indicator
- 2 watt x2

### Security
- Security keyhole for attachment of optional cable lock (Kensington® lock compatible), locks optional Tiny with TIO together, more security features offered by Tiny installed (optional)

### Mechanical
- **Dimensions**
  - **TIO without stand:** W x D x H (inch): 21.25 x 2.85 x 14.47
  - **TIO with stand:** W x D x H (inch): 21.25 x 11.11 x 15.72 - 20.06
  - W x D x H (mm): 539.8 x 72.5 x 367.6
  - Weight (Approx.): 7.96 lb /3.61 kg

### Accessories
- For compatible accessories, please go to [http://www.lenovoquickpick.com](http://www.lenovoquickpick.com)

<table>
<thead>
<tr>
<th>ThinkCentre Tiny-in-One 24 Gen3 Compatible list</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
</tr>
<tr>
<td>M910 / M710 / M900 / M700 / M600 / M715 / M93p Tiny, M73 Tiny</td>
</tr>
<tr>
<td>Turn on TIO and Tiny together via Alt + P on USB KB</td>
</tr>
<tr>
<td>Turn on TIO and Tiny together via TIO Power Button</td>
</tr>
</tbody>
</table>

### Limited warranty
- **3-years**, Customer Carry-In or Mail-In via Rapid Replacement Service

### Power supply
- 90 watts AC/DC adapter, 88% PSU, universal

### Power consumption
- 19 watts typical, 32 watts maximum, <0.5 watts standby / suspend

### VESA-compliant
- VESA DDC2B/Ci, VESA DPMS-compliant

### Emission standards
- FCC Class B

### Environmental
- TCO 7.0, TCO Edge 2.0, WEEE, RoHS, ENERGY STAR® 7.0,
- EPEAT™ Silver rating, ULE Gold, TUV, VOC

### Windows certifications
- Windows 7 and Windows 10 certified

### Ship group
- TIO 24 (Monitor), detachable stand, AC/DC power adapter, power cord, user's guide and driver CD, quick start and safety poster

### Lenovo, July 2017
ThinkCentre Tiny-in-One (TIO) 27

**Product Specifications Reference (PSREF)**

Lenovo, Feb 2019

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**Form factor**
Tiny-in-One, offers a full All-In-One experience when optional Tiny slots into the back of TIO, clean cabling and effortless setup

**Compatible Tiny:**
ThinkCentre Tiny, ThinkCentre Nano, and ThinkStaion Tiny

**Panel**
TFT-LCD, In-Plane Switching technology**, White LED backlight**

**Viewable image size**
27" (685.8mm) diagonal

**Max view area (W x H)**
23.49" x 13.22" / 596.7mm x 335.7mm

**Bezel Width**
Top / Side: 2mm, Bottom: 23.3mm

**Native resolution**
2560x1440

**Internal Speaker**
2 watt x2

**Camera**
RGBIR camera with dual microphone, supports Windows Hello and Facial Recognition, Think Shutter for Privacy Security, LED indicator

**3-in-1 Cable**
Supports the USB Type-C, DisplayPort, and HDMI ports

**Mounting features**
Wall or desk mounting using the extend arm or third-party accessories meeting the VESA FPPMFM (100mm mount)

**Control features**
Pressing Alt + P on keyboard or pressing Power button positioned on TIO can turn on both TIO and Tiny (only some support, see Compatible Matrix)

**On-screen display**
On screen display with digital user controls (8 languages)

**On-screen display with digital user controls (8 languages)**
Exit button, Left / Mode-switching button (TIO / monitor mode), Right / Brightness button, Enter / Menu button, Power button

**Bottom**
Volume up button, Volume down button

**Tilt**
33° back, -5° forward;

**Swivel**
+/-45°;

**Pivot**
Clockwise -5° to 90°

**Dimensions**
614.0 x 73.89 x 444.25 - 554.25 / 24.17 x 2.91 x 16.26 / 24.17 x 12.95 x 17.49 - 21.82

**Weight (Approx.)**
4.91 kg / 10.82 lb

**Power supply**
170 watts adapter, 88% PSU, universal

**Cable Lock (Kensington**
Recommended for bundled security option, also supports cable locks compatible with TIO

**Secure keyhole for attachment of optional cable lock (Kensington**
Lock compatible, locks optional Tiny with TIO together, more security features offered by Tiny installed (optional)

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**Form factor**
Compatible Tiny:
Tiny-in-One, offers a full All-In-One experience when optional Tiny slots into the back of TIO, clean cabling and effortless setup

**Compatible Tiny:**
ThinkCentre Tiny, ThinkCentre Nano, and ThinkStaion Tiny

**TIO with stand**
All models

**TIO without stand**
ThinkCentre Tiny-in-One (TIO) 27

**VESA-compliant**
VESA DDC/CI, VESA DPMS-compliant

**Windows certifications**
Windows 7 and Windows 10 certified

**Environmental**
ISO 9241-307, TÜV Eye Comfort certified

**Ergonomics**
FCC Class B

**Ergonomics**
TCO 6.0, TCO Edge 2.0, WEEE, RoHS, ENERGY STAR® 7.0, EPEAT® Silver rating, ULE Gold, TÜV, VOC

**TCO certifications**
Windows 7 and Windows 10 certified

**Service (EMEA)**
Product Exchange Service (US and EMEA) or Customer Carry-In Service (EMEA)

**Limited warranty**
3-years

**Power consumption**
37 watts typical, 57 watts maximum, <0.5 watts standby / suspend

**Presets / user settings**
Presets: 27; user settings: 25

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**Preset resolutions**
640x350 @ 70Hz
640x480 @ 60Hz, 66Hz, 72Hz, 75Hz
720x400 @ 70Hz
800x600 @ 60Hz, 72Hz, 75Hz
1024x768 @ 60Hz, 70Hz, 75Hz
1152x864 @ 75Hz
1280x768 @ 60Hz
1280x800 @ 60Hz
1280x1024 @ 60Hz, 72Hz, 75Hz
1366x768 @ 60Hz
1440x900 @ 60Hz, 75Hz
1600x1200 @ 60Hz, 70Hz, 75Hz
1680x1050 @ 60Hz
1920x1080 @ 60Hz
2560x1440 @ 60Hz

**Presets / user settings**
On screen display with digital user controls (8 languages)

**Control features**
Exit button, Left / Mode-switching button (TIO / monitor mode), Right / Brightness button, Enter / Menu button, Power button

**Bottom**
Volume up button, Volume down button

**Tiny-in-One Power On**
Pressing Alt + P on keyboard or pressing Power button positioned on TIO can turn on both TIO and Tiny (only some support, see Compatible Matrix)

**Tilt**
33° back, -5° forward;

**Swivel**
+/-45°;

**Pivot**
Clockwise -5° to 90°

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**Form factor**
Compatible Tiny:
Tiny-in-One, offers a full All-In-One experience when optional Tiny slots into the back of TIO, clean cabling and effortless setup

**Dimensions**
614.0 x 73.89 x 413.1 / 24.17 x 2.91 x 16.26

**Weight (Approx.)**
4.91 kg / 10.82 lb

**Power capability**
37 watts typical, 57 watts maximum, <0.5 watts standby / suspend

**Limited warranty**
3-years

**Power supply**
170 watts adapter, 88% PSU, universal

**Cable Lock (Kensington**
Recommended for bundled security option, also supports cable locks compatible with TIO

**Secure keyhole for attachment of optional cable lock (Kensington**
Lock compatible, locks optional Tiny with TIO together, more security features offered by Tiny installed (optional)

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Expedited Depot: Parts and labor coverage with expedited turnaround. Shipping (including packaging) or delivery to the repair center is paid for by Lenovo.

Onsite / In-home Service: Parts and labor repair coverage where labor is provided onsite at your place of business.

If Lenovo determines your product problem is covered by the product warranty and cannot be resolved over the telephone, a technician will be dispatched to arrive onsite, typically the next day.


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Included software: may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.

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