<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ThinkCentre Tiny-In-One 22 Platform Specifications</td>
<td>68</td>
</tr>
<tr>
<td>ThinkCentre Tiny-In-One 22 Gen3</td>
<td>69</td>
</tr>
<tr>
<td>ThinkCentre Tiny-In-One 22 Gen3 Platform Specifications</td>
<td>70</td>
</tr>
<tr>
<td>ThinkCentre Tiny-In-One 24</td>
<td>71</td>
</tr>
<tr>
<td>ThinkCentre Tiny-In-One 24 Platform Specifications</td>
<td>72</td>
</tr>
<tr>
<td>ThinkCentre Tiny-In-One 24 Gen3</td>
<td>73</td>
</tr>
<tr>
<td>ThinkCentre Tiny-In-One 24 Gen3 Platform Specifications</td>
<td>74</td>
</tr>
<tr>
<td>ThinkCentre Tiny-In-One 27</td>
<td>75</td>
</tr>
<tr>
<td>ThinkCentre Tiny-In-One 27 Platform Specifications</td>
<td>76</td>
</tr>
<tr>
<td>Legal Information</td>
<td>77</td>
</tr>
</tbody>
</table>
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.

May 2019 - Version 542

Additions in this update

► New product(s)
None

► New model(s)
None

► Others
None
Remove ThinkCentre M920 SFF model pages, move to online version
Remove ThinkCentre M920 Tower model pages, move to online version
Remove ThinkCentre M720 SFF model pages, move to online version
Remove ThinkCentre M720 Tower model pages, move to online version
Remove ThinkCentre M630e Tiny model pages, move to online version
Remove ThinkCentre M625 Tiny model pages, move to online version
Remove ThinkCentre M625 Tiny Thin Client model pages, move to online version
Remove ThinkCentre M715 Tiny (2nd Gen) model pages, move to online version
Remove ThinkCentre M715 Tiny Thin Client (2nd Gen) model pages, move to online version

Withdrawals in this update

► Withdrawn product(s)
None

► Withdrawn model(s)
None
ThinkCentre M810z 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>Intel Celeron®, Intel Pentium®, or 6th / 7th Gen Intel Core™ i3 / i5 / i7 Processor</td>
<td>Pentium G4400</td>
<td>2 / 2</td>
<td>3.3G</td>
<td>DDR4-2133</td>
<td>HD 510</td>
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<tr>
<td>Intel Celeron®, Intel Pentium®, or 6th / 7th Gen Intel Core™ i3 / i5 / i7 Processor</td>
<td>Pentium G4560</td>
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<td>Intel Celeron®, Intel Pentium®, or 6th / 7th Gen Intel Core™ i3 / i5 / i7 Processor</td>
<td>Pentium G4600</td>
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<td>3.6G</td>
<td>DDR4-2400</td>
<td>HD 630</td>
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<tr>
<td>Intel Celeron®, Intel Pentium®, or 6th / 7th Gen Intel Core™ i3 / i5 / i7 Processor</td>
<td>Core i3-6100</td>
<td>2 / 4</td>
<td>3.7G</td>
<td>DDR4-2133</td>
<td>HD 530</td>
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<tr>
<td>Intel Celeron®, Intel Pentium®, or 6th / 7th Gen Intel Core™ i3 / i5 / i7 Processor</td>
<td>Core i5-6500</td>
<td>4 / 4</td>
<td>3.2G / 3.6G</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
<tr>
<td>Intel Celeron®, Intel Pentium®, or 6th / 7th Gen Intel Core™ i3 / i5 / i7 Processor</td>
<td>Core i7-7700K</td>
<td>4 / 8</td>
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<td>DDR4-2400</td>
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<td>Intel Celeron®, Intel Pentium®, or 6th / 7th Gen Intel Core™ i3 / i5 / i7 Processor</td>
<td>Core i5-7400</td>
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<tr>
<td>Intel Celeron®, Intel Pentium®, or 6th / 7th Gen Intel Core™ i3 / i5 / i7 Processor</td>
<td>Core i7-7700</td>
<td>4 / 8</td>
<td>3.5G / 4.1G</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" (optional)
- 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 (DVDrw), SATA 1.5Gb/s Drive, slim (9.5mm)
- Optional 9-in-1 media card reader

**Graphics**

- Intel HD Graphics 550/560/630 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™
- Max resolution: 4096x2304 (DP) @60Hz, 1920x1080 (Panel) @60Hz

**Display**

- 21.5" (546.1mm) 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
- Multi-touch: Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch
- Optional 1080p camera, fixed focus, with dual microphone, LED indicator, physical switch on/off
- Controls: Physical buttons for Microphone mute, brightness up/down, and power on/off

**Chipset**

- Intel B250 Chipset

**Rear ports**

- Four USB 3.1 Gen1, one 4th gen, DisplayPort, optional serial (9-pin), two USB 3.1 Gen1 (one is Always On and fast charge), optional card reader, one headphone / microphone combo jack (3.5mm)

**Audio support**

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

**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-LTE 8625B, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

**Bluetooth**

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

**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)

**Manageability**

- None

**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)
- 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

**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**

- Business black color
- Toless stand
- Support VESA mount (100mm)

**Dimensions (WxHxD) Max weight (lb / kg) Adjustments**

- Without stand: 21.1 x 1.8 x 14.3 (inch); (Touch) 19.8 x 14.6 / 6.6
- With Basic Monitor stand: 21.1 x 9.6 x 17.0 (inch); (Non-touch) 17.0 / 7.7
- With UltraFlex II stand: 21.1X 10.0 x 19.3 (inch); (Touch) 20.3 / 9.2

**Preload**

- Preloaded operating system
- Preloaded applications (only some listed)

**Power supply**

- 150 watts, autosensing, 85% 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

**Accessories**

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

See footnotes for more detailed information © Lenovo

(M810z-Spec) February 2017

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

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

* System clocks down for the processors with lower memory controller

* With UltraFlex II stand:
  - 535 x 45 x 363 (mm)
  - 116mm; Swivel: +/-45°
**Processor**

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel Celeron G4900</td>
<td>2 / 2</td>
<td>1.10 GHz</td>
<td>2 MB</td>
<td>DDR4-2400</td>
<td>UHD 600</td>
</tr>
<tr>
<td>Intel Celeron G4920</td>
<td>2 / 2</td>
<td>1.10 GHz</td>
<td>2 MB</td>
<td>DDR4-2400</td>
<td>UHD 600</td>
</tr>
<tr>
<td>Intel Pentium Gold G5400</td>
<td>2 / 4</td>
<td>2.50 GHz</td>
<td>4 MB</td>
<td>DDR4-2400</td>
<td>UHD 600</td>
</tr>
<tr>
<td>Intel Pentium Gold G5500</td>
<td>2 / 4</td>
<td>3.50 GHz</td>
<td>4 MB</td>
<td>DDR4-2400</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Intel Core i3-8100</td>
<td>4 / 4</td>
<td>3.90 GHz</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Intel Core i5-8400</td>
<td>4 / 6</td>
<td>2.80 GHz</td>
<td>6 MB</td>
<td>DDR4-2400</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Intel Core i5-8500</td>
<td>4 / 6</td>
<td>3.00 GHz</td>
<td>4 MB</td>
<td>DDR4-2400</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Intel Core i7-8700</td>
<td>4 / 6</td>
<td>3.20 GHz</td>
<td>12 MB</td>
<td>DDR4-2400</td>
<td>UHD 630</td>
</tr>
</tbody>
</table>

**Memory**

- 32GB max, DDR4-2666, 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 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)

**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 1.2+

Max resolution: 4906x2304 (DP) @ 60Hz, 1920x1080 (Panel) @ 60Hz

**Display**

21.5" (546.1mm) Full HD 1080p (1920x1080) TFT color, Borderless design, 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

**Multi-touch Camera**

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

**Control**

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

**Chipset**

Intel B360 Chipset

**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, 1x1

**Bluetooth**

- Some: Bluetooth 2.1/2.0, 12MB, integrated in Wi-Fi + BT combo adapter

**Environment**

- ENERGY STAR 7.0, EPEAT Gold rating* (*not for non-OS models), ErP Lot 3, TCO AIO Computer certified, GREENGUARD certified, TUV Eye comfort certified (for Full Function Monitor Stand only), TUV Low Blue Light certified, TUV Ultralow 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

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

**Keyboard**

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

**Mouse**

- Lenovo Calliope Mouse, Windows Hello support, black

**Mechanical**

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

**Controls**

- Boot without keyboard and mouse
- Boot sequence control
- Individual USB port disablement
- Optional Chassis intrusion switch

**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 application (only some listed)**

- Lenovo Vantage
- Microsoft Office preloaded:
  - Cyberlink PowerDVD (only for models with DVD / DVD±RW)
  - Cyberlink Power2GO (only for models with DVD±RW)
  - LinkedIn

**Environment**

ENERGY STAR 7.0*, EPEAT Gold rating* (*not for non-OS models), ErP Lot 3, TCO AIO Computer certified, GREENGUARD certified, TUV Eye comfort certified (for Full Function Monitor Stand only), TUV Low Blue Light certified, TUV Ultralow 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.
<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Celeron®, Intel® Pentium®, or 6th / 7th Gen Intel Core™ i3 / i5 / i7 Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory Support</td>
<td>DDR4-2133, DDR4-2400</td>
</tr>
<tr>
<td>Memory</td>
<td>32GB max, DDR4-2400*; two 260-pin SO-DIMM sockets, dual-channel capable</td>
</tr>
<tr>
<td>Storage</td>
<td>Hard Drive / SATA 6.0Gb/s, 2.5”, 5400 rpm or 7200 rpm</td>
</tr>
<tr>
<td>Optical</td>
<td>Intel Optane™ Memory (models with 7th gen Core processor), M.2</td>
</tr>
<tr>
<td>Media reader</td>
<td>Optional 9-in-1 media card reader</td>
</tr>
<tr>
<td>Graphics</td>
<td>Intel HD Graphics 530/630 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™</td>
</tr>
<tr>
<td>Display</td>
<td>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)</td>
</tr>
<tr>
<td>Multi-touch Camera</td>
<td>Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch</td>
</tr>
<tr>
<td>Controls</td>
<td>Physical buttons for Microphone mute, monitor mode switch, brightness up/down, power on/off</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel® Q270 chipset</td>
</tr>
<tr>
<td>Rear ports*</td>
<td>Four USB 3.1 Gen1, ethernet (RJ-45), DisplayPort in/out combo port, optional serial (9-pin)</td>
</tr>
<tr>
<td>Side ports*</td>
<td>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 (powered by on-chip regulators, actual data transfer speed may be lower than theoretical speed)</td>
</tr>
<tr>
<td>M.2 card slot</td>
<td>Two M.2 Card slots (one for WLAN, one for SSD/Optane)</td>
</tr>
<tr>
<td>Audio support</td>
<td>High Definition (HD) Audio, Realtek ALC233 / two internal speakers (3W x 2), Dolby® Audio™ certified</td>
</tr>
<tr>
<td>WLAN™</td>
<td>Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1</td>
</tr>
<tr>
<td>Bluetooth™</td>
<td>Some: Intel® Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.1 combo adapter, 1x1</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 on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)</td>
</tr>
</tbody>
</table>

**Security chip**
TPM (Trusted Platform Module) 2.0, TCG Certified
* Downgrade to TPM 1.2 for the models with Win10 DG Win7 32 OS

**Security features**
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chasis)
- 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

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

**Mechanical**

<table>
<thead>
<tr>
<th>Dimensions (WxDxH)</th>
<th>Max weight (lb / kg)</th>
<th>Adjustments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without stand:</td>
<td>23.0 X 1.8 X 15.4 (inch); 584 X 45 X 390 (mm)</td>
<td>(Touch) 17.2 / 7.8</td>
</tr>
<tr>
<td>With Basic Monitor stand:</td>
<td>23.0 X 9.6 X 18.0 (inch); 584 X 245 X 458 (mm)</td>
<td>(Non-touch) 19.4 / 8.8</td>
</tr>
<tr>
<td>With UltraFlex II stand:</td>
<td>23.0X 10.0 X 19.9 (inch); 584 X 253 X 505 (mm)</td>
<td>(Touch) 22.7 / 10.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Non-touch) 20.7 / 9.4</td>
</tr>
</tbody>
</table>

| Power supply | 150 watts, autosensing, 85% PSU |

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

**Preload**

| Preloaded operating system | Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit (up to 3 years after purchase a product key to activate) |
| Preloaded applications (only some listed) | Microsoft Office preloaded; purchase a product key to activate only for Window 10 |
| Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black |
| Lenovo Calliope Wireless Mouse (USB connector), black |
| Lenovo Calliope Keyboard (USB connector), black |
| Lenovo Traditional Keyboard (USB connector), black |
| Lenovo Calliope Wired USB Keyboard (2.4GHz via USB receiver), black |
| Lenovo Calliope Wired USB Keyboard (USB connector), black |
| Lenovo Calliope Wired USB Mouse (2.4GHz via USB receiver), black |
| Lenovo Calliope Wired USB Mouse (USB connector), black |

**Environment**

| EPEAT™ Gold rating (North America); ENERGY STAR® 6.1; TCO AIO Computer Certified; ULE Gold; eP 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.lenovooquipick.com](http://www.lenovooquipick.com)
ThinkCentre M920z Platform Specifications

Product Specifications Reference (PSREF)

Processor

<table>
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<tr>
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<th>Intel® Celeron®, Intel Pentium®, or 8th Generation Intel® Core™ i3 / i5 / i7 Processor</th>
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<tbody>
<tr>
<td>Cores/Threads</td>
<td>Frequency Base/Max(GHz)</td>
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<tr>
<td>Celeron G4900</td>
<td>2 / 2</td>
</tr>
<tr>
<td>Celeron G4920</td>
<td>2 / 2</td>
</tr>
<tr>
<td>Pentium Gold G5400</td>
<td>2 / 2</td>
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<tr>
<td>Pentium Gold G5500</td>
<td>2 / 2</td>
</tr>
<tr>
<td>Pentium Gold G5600</td>
<td>2 / 2</td>
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<tr>
<td>Core i3-8100</td>
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<tr>
<td>Core i3-8300</td>
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<td>Core i5-8400</td>
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<td>Core i5-8600</td>
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<tr>
<td>Core i7-8700</td>
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</table>

Memory

- 32GB max, 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 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm, supports up to two HDs (2nd HDD occupies ODD bay), RAID0/1 support (RAID preset only available via special bid model)
- 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 only supports PCIe 3.0 x 2, 16Gb/s
- Some: Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2
- Some: DVD-ROM SATA1.5GB's Drive, slim (9.0mm)
- Some: DVD Burner (DVD+RW), SATA1.5GB's Drive, slim (9.0mm)

Optical

- Optional 3-in-1 media card reader

Media reader

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

Graphics

- Intel® HD Graphics 610/630 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™
- Max resolution: 4096x2304 (DP)@60Hz
- Full HD 1080p (1920x1080) TFT color
- 23.8" (604.5mm) Full HD 1080p (1920x1080) TFT color
- Borderless design, 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)

Multi-touch

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

Camera

- Optional multi-touch, supports 10-point, AIT (Advanced In-cell Touch) technology
- Some: 1080p camera, with dual microphone, LED indicator, physical switch on/off, supports multi-degree rotation (horizontal 0° to 180°, vertical -25° to 25°)
- Some: RGBIR camera, 1080p, with dual microphone, physical switch on/off, supports multi-degree rotation (horizontal 0° to 180°, vertical -25° to 25°)
- Windows Hello support, only available via special bid models

Controls

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

Chipset

- Intel® Q370 Chipset

Rear ports

- Four USB 3.1 Gen1 (one supports Smart Power On), one ethernet (RJ-45), one DisplayPort in/out combo port, one optional microphone (9-pin)
- 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

Audio support

- High Definition (HD) Audio, Realtek ALC233 / two internal speakers (3W x 2), Dolby® Audio™ Premium
- Some: Bluetooth 4.2/5.0 wireless, integrated in Wi-Fi + BT combo adapter

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

Security

- Intel® Active Management Technology 12.0 (Intel AMT 12.0):
- 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 slot (in rear for attachment of optional Kensington® MicroSaver cable; Boot sequence control
- Kensington lock also locks chassis
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Optional Chassis intrusion switch

Keyboard

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

Mechanical

- Business black color
- Tootless 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: 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 selected)

- ● 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 / DVDs+RW)
- ● Lenovo Vantage
- ● Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
- ● Lenovo Calliope Keyboard (USB connector), black
- ● Lenovo Traditional Keyboard (USB connector)
- ● Lenovo Calliope Keyboard (USB connector), black
- ● Lenovo Calliope Mouse (USB connector), black
- ● Lenovo Calliope Mouse (USB connector), black
- ● Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Environment

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

MIL-STD 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, July 2018
### 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>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>
</tr>
<tr>
<td>Celeron N3060</td>
<td>2 / 2</td>
<td>1.6 / 2.48 GHz</td>
<td>2MB</td>
<td>DDR3L-1600</td>
<td>Intel HD 400</td>
</tr>
<tr>
<td>Pentium N3700</td>
<td>4 / 4</td>
<td>1.6 / 2.4 GHz</td>
<td>2MB</td>
<td>DDR3L-1600</td>
<td>Intel HD</td>
</tr>
<tr>
<td>Intel Architecture (IA) SoC that integrates Intel processor core, graphics, memory controller, and I/O interfaces into a single system-on-chip package</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Chipset

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

### Graphics

Optical

- 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
- 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
- Some: SATA 6.0Gb/s controller, one connectors on planar board

### Onboard SATA Media reader

- None

### Front ports

- 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)

### LAN

Some:

- 11ac wireless, M.2 Card, Realtek RTL8812AE (dual band)
- Wi-Fi + Bluetooth 4.0 combo adapter, 1x1

### Bluetooth

Some:

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

### Ethernet

One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

### Modem

None

### Manageability Securty chip

- Trusted Platform Module, TCG 1.2-compliant

### Security features

- Security slot (in rear for optional locked slot) / Kensington® MicroSaver® cable
- Padlock loop
- Smart USB protection, allows keyboard / mouse only, blocks all storage devices
- Power-on password

### Keyboard

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

### Mouse

Some: Lenovo USB Fingerprint Keyboard (USB connector)

### Mechanical

- Dimensions (WxOxD): M600 Tiny only (1L) 7.05” X 7.20” X 1.36”
- Max weight (lb / kg): M600 Tiny only (1L) 2.9 lb (1.3 kg)

### Power supply

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

### Limited warranty

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

### Preload

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

### Environment

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

### Accessories

For compatible accessories, please go to TC-AQP sheet

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* See footnotes for more detailed information

Lenovo, November 2017
### ThinkCentre M600 Tiny Thin Client 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>Celeron N3000</td>
<td>2 / 2</td>
<td>1.04 / 2.08 GHz</td>
<td>2MB</td>
<td>DDR3L-1600</td>
<td>Intel HD 400</td>
</tr>
<tr>
<td>Celeron N3010</td>
<td>2 / 2</td>
<td>1.04 / 2.24 GHz</td>
<td>2MB</td>
<td>DDR3L-1600</td>
<td>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

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

**Monitor cable**

For compatible accessories, please go to TC-AQP sheet

**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

Onboard SATA controller, one connectors on planar

**Optical drive**

None

**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), WiFi + Bluetooth 4.0 combo adapter, 2x2

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

**Bluetooth**

Some: Bluetooth 4.0 or 4.1, Intel Dual Band Wireless-AC 11435

**Mechanical**

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

**Power supply**

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

**Environmental**

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

**Preload**

Some: Windows Embedded Standard 7 V2 (WES 7 V2)

Some: Windows IoT Enterprise

Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Some: LeTOS V2 (Lenovo Terminal Operating System, Linux-based)

**Limited warranty**

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

**Accessories**

For compatible accessories, please go to TC-AQP sheet

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

Lenovo, November 2017
### 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 DDR4-1866</td>
<td>Radeon R5 Series</td>
<td></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

**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

**I/O box**

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

**Audio support**

- Realtek ALC233-VB2-C/ internal speaker (1.5 watt)

**LAN™**

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

**Bluetooth™**

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

**Ethernet Modem**

- Gigabit ethernet, Realtek RTL8111H, Wake on LAN®

**Security chip**

- None

**Security features**

- Discrete TPM 2.0, TCG Certified
- 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

**Manageability**

- None

**Security features**

- None

**Environmental**

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

**MIL-SPEC test**


**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
  - Lenovo Solution Center
  - Lenovo System Update
  - Factory Recovery
  - User Guide Viewer
  - Microsoft Office preloaded;
  - purchase a product key to activate
  - Adobe® Reader®

**Environment**

- Lenovo, May 2018

For compatible accessories, please go to [http://smartfind.lenovo.com](http://smartfind.lenovo.com)
### 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>E2-9000e</td>
<td>2</td>
<td>1.5 / 2.0 GHz</td>
<td>1 MB</td>
<td>DDR4-1866</td>
<td>Radeon R2 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: 32GB M.2 Solid State Drive (SSD) / SATA interface
- Some: 128GB M.2 Solid State Drive (SSD) / PCIe NVMe interface

### Optical

- 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

- 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

### Chipset

- **AMD SoC platform**

### 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

### Bluetooth™

- Some: Bluetooth 4.2™ wireless, integrated in Wi-Fi + BT combo adapter
- * Win 10 RS3 and Win10 earlier version only support Bluetooth 4.1

### Ethernet Modem

- Gigabit ethernet, Realtek RTL8111HNR, Wake on LAN™

### Manageability

- None
- Discrete TPM 2.0, TCG Certified

### Security chip

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power-on password

### Security features

- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

### 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™ Gold 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](http://smartfind.lenovo.com)

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**Lenovo, May 2018**
Product Specifications Reference (PSREF)

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>
<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>
</tbody>
</table>

Memory

16GB max, DDR4-2666*, one 260-pin SO-DIMM sockets, non-ECC

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 onboard SATA 6.0Gb/s connector

Onboard SATA


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


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

Rear ports* (Opt.)
None
* Depending on many factors, actual data transfer speed may be lower than theoretical speed

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

Ethernet (Opt.)
None

Manageability

Security chip
Security features
None


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 Mouse

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) | Weight (Approx.)
--- | ---
Tiny only | 7.05" X 7.20" X 1.36"
179mm X 182.9mm X 34.5mm | 2.91 lb (1.32 kg), vary by config

VESA mount
None
Optional system floor stand for vertical orientation

Floor Stand


Power supply

Some: 65 watts adapter, autosensing, 88% PSU

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 10 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, ErP Lot 3, TCO, RoHS-compliant, WEEE, REACH

MIL-SPEC test
Coming soon

Accessories

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

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

Lenovo, Mar 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>
</tr>
</thead>
<tbody>
<tr>
<td>Pentium G4400</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.

### 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: 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: Optional 7-in-1 media reader

### Optical

- 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

### Monitor cable

- 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 audio ports*: Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)  
  - Rear audio ports*: Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)  
  - Rear audio ports*: Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)  
  - Rear audio ports*: Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

### Audio support

- High Definition (HD) Audio, Realtek ALC866 / 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 4.1 wireless, integrated in Wi-Fi + BT combo adapter

### Bluetooth™

- Gigabit ethernet, Realtek RTL8111GN, Wake on LAN

### Manageability

- Security chip: None  
  - TPM (Trusted Platform Module) 2.0, TCG Certified

- 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 Traditonal 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

- SFF (8.4L), black color; metal case  
  - (Wx Dx H) 3.6” x 11.4” x 13.5”; 92.5mm X 290.5mm X 342.5mm  
  - Approx. 13.2 lb (6.0 kg), weight may vary by configuration  
  - Touchless cover, disk, optical 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 x1*  
  - Slot 2: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x1*  
  - Slot 3: low-profile (length < 150mm, height < 68mm), 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/Optane)  
  - Optional 2 front USB3.1 Type-C ports 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, 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 Home 64-bit

### Preloaded applications (only some listed)

- Microsoft Office preloaded; purchase a product key to activate  
  - Only for Window 10  
  - Lenovo Companion  
  - Lenovo Solution Center  
  - Lenovo ThinkVantage Tools  
  - Create Recovery Media  
  - Adobe® Reader  
  - Cyberlink PowerDVD Create (DVDs+RW)

### Environment

- ENERGY STAR® 6.1, EPEAT® Gold rating (North America), EPEAT® Silver rating (International)  
  - EPEAT Gold rating (Europe), EPEAT Silver rating (International)  
  - TCO Certified, TÜV low noise verified (on some models)

### Accessories

- For compatible accessories, please go to http://www.lenovoquickpick.com
**ThinkCentre M710 Tiny Platform Specifications**

**Processor**
- Intel Celeron®, Intel Pentium®, or 6/7th Generation Intel Core™ i3 / i5 / i7 Processor
  - **Core i3-6100T** 2 / 2 2.3G 3 MB DDR4-2133 HD 510
  - **Core i5-6500T** 2 / 4 2.5G 3 MB DDR4-2400 HD 630
  - **Core i7-6700T** 4 / 8 2.85/3.6G 8 MB DDR4-2133 HD 530
  - **Core i3-7100T** 2 / 4 3.4G 3 MB DDR4-2133 HD 630
  - **Core i5-7400T** 4 / 4 2.4G 3 MB DDR4-2400 HD 630
  - **Core i5-7500T** 4 / 4 2.7G 3.3G 6 MB DDR4-2400 HD 630
  - **Core i5-7600T** 4 / 4 2.8G 3.7G 6 MB DDR4-2400 HD 630
  - **Core i7-7700T** 4 / 8 2.9G 3.8G 8 MB DDR4-2400 HD 630
- **Intel B250 Chipset**
- **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
- **Onboard SATA Media reader** None
- **Optical Drive**
  - Some: DVD Burner (DVD+RW), slim (9.0mm), via USB external ODD box
- **I/O box**
  - 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" Site
  - Some: M.2 Solid State Drive (SSD) / PCle NVMe, PCle 3.0 x 4, 32Gb/s
  - Some: Intel Optane™ Memory (models with 7th gen Core Processor, M.2)
  - Some: DVD-ROM, slim (9.0mm), via USB external ODD box

**Memory**
- 32GB max, DDR4-2400, 2x 260-pin SO-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", 5400 rpm or 7200 rpm
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Site
- Some: M.2 Solid State Drive (SSD) / PCle NVMe, PCle 3.0 x 4, 32Gb/s
- Some: Intel Optane™ Memory (models with 7th gen Core Processor, M.2)
  - Some: DVD Burner (DVD+RW), slim (9.0mm), via USB external ODD box

**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 in processor)

**I/O box**
- 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" Site
- Some: M.2 Solid State Drive (SSD) / PCle NVMe, PCle 3.0 x 4, 32Gb/s
- Some: Intel Optane™ Memory (models with 7th gen Core Processor, M.2)

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

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

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

**Manageability**
- None

**Security chip**
- None

**Processor Cores / Threads**
- Pentium G4400T 2 / 2 2.9G 3 MB DDR4-2133 HD 510
- Pentium G4560T 2 / 4 2.9G 3 MB DDR4-2400 HD 610
- Pentium G4600T 2 / 4 3.0G 3 MB DDR4-2400 HD 630
- Core i3-6100T 2 / 4 2.3G 3 MB DDR4-2133 HD 530
- Core i5-6500T 2 / 4 2.5G 3 MB DDR4-2133 HD 630
- Core i7-6700T 4 / 8 2.85/3.6G 8 MB DDR4-2133 HD 530
- Core i3-7100T 2 / 4 3.4G 3 MB DDR4-2133 HD 630
- Core i5-7400T 4 / 4 2.4G 3 MB DDR4-2400 HD 630
- Core i5-7500T 4 / 4 2.7G 3.3G 6 MB DDR4-2400 HD 630
- Core i5-7600T 4 / 4 2.8G 3.7G 6 MB DDR4-2400 HD 630
- Core i7-7700T 4 / 8 2.9G 3.8G 8 MB DDR4-2400 HD 630

**Memory Support**
- (Up to)
  - DDR4-2133
  - DDR4-2400

**Graphics**
- Intel HD Graphics 510/530/610/630
- Intel B250 Chipset

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

**Mechanical**
- TUV low noise verified (on some models)

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

**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 Windows 10
- Lenovo Companion
  - Only for Window 7
- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- Create Recovery Media
- Adobe® Reader
- Link to PowerDVD Create (DVD+RW)

**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**

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

See footnotes for more detailed information © Lenovo

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

### Product Specifications Reference (PSREF)

**Processor**

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
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**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"
- 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

**Optical**

- Optional 7-in-1 media reader

**Graphics**

- Intel HD Graphics 510/530/610/630 in processor, uses 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 360, 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**

- Optional cable lock to physically lock both keyboard and mouse

**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)

**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

**Environmental**

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

**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
- 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
- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- Create Recovery Media
- Adobe® Reader®
- Cyberlink PowerDVD Create (DVD±RW)

**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.

Lenovo, June 2017
### ThinkCentre M710e SFF 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>Celeron G3900</td>
<td>2 / 2</td>
<td>2.8G</td>
<td>2 MB</td>
<td>DDR4-2133</td>
<td>HD 510</td>
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<tr>
<td>Celeron G3930</td>
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<td>2.9G</td>
<td>3 MB</td>
<td>DDR4-2133</td>
<td>HD 610</td>
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<tr>
<td>Pentium G4400</td>
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<td>3.3G</td>
<td>3 MB</td>
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<tr>
<td>Pentium G4500</td>
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<tr>
<td>Pentium G4620</td>
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<td>3 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
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<tr>
<td>Core i3-6100</td>
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<td>3.7G</td>
<td>3 MB</td>
<td>DDR4-2133</td>
<td>HD 530</td>
</tr>
<tr>
<td>Core i5-6400</td>
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<td>2.7G / 3.3G</td>
<td>6 MB</td>
<td>DDR4-2133</td>
<td>HD 530</td>
</tr>
<tr>
<td>Core i5-6500</td>
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<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 i3-7100</td>
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<td>3 MB</td>
<td>DDR4-2133</td>
<td>HD 630</td>
</tr>
<tr>
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<td>Core i5-7400</td>
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<td>Core i7-7500</td>
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<td>6 MB</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>DDR4-2133</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>DDR4-2133</td>
<td>HD 630</td>
</tr>
</tbody>
</table>

#### Memory

- 32GB max, UDIMM, DDR4-2400;
- two 288-pin DIMM sockets, non-ECC, dual-channel capable
- *System automatically clocks down for the processors with lower memory controller frequency*

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

#### Optical

- Two onboard SATA 6.0Gb/s connectors

#### Onboard SATA

- 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, one DisplayPort™, supports 2 independent displays, works along with 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

#### 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, microphone (3.5mm), one headphone / microphone combo jack (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, one DisplayPort™, optional external USB to PS/2 ports cable (for PS/2 keyboard / mouse);
- additional DisplayPort on optional graphics on some models

#### Rear audio ports

- Line-out jack (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 ALC233 / internal speaker (1.5 watt)

#### WLAN™

- None

#### Bluetooth™

- None

#### Ethernet

- Gigabit ethernet, Realtek RTL8111HN, Wake on LAN™

#### Modem

- None

#### Manageability

- None

#### Security chip

- TPM (Trusted Platform Module) 2.0, TCG Certified
- *Downgrade to TPM 1.2 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 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

#### Mouse

- *Some*: SFF (7.4L), black color, metal case
- *(Wx&DxH)* 3.9" X 11.9" X 10.8"; 100mm X 303.5mm X 273.5mm
- *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 x16*
- *Slot 2: low-profile (length < 152mm, height < 64mm), PCIe 3.0 x1*
- *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

- *Some*: 195mm X 390mm X 500mm
- *Cross weight (approx.) 14.22 lb (6.45 kg)*

#### Power supply

- *Some*: 180 watts, autosensing, 85% PSU

#### Preload

- *Preloaded operating system*
  - *Some*: Windows 10 Pro 64-bit
  - *Some*: Windows 10 Home 64-bit
  - *Some*: Windows 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit(not available with 7th Gen Intel processor)
- *Preloaded applications (only some listed)*
  - *Microsoft Office preload*
  - *purchase a product key to activate*
  - *Cyberlink PowerDVD (DVD, DVD±RW)*
  - *Cyberlink PowerDVD Create (DVD±RW)*
  - *- Only for Window 10*
  - *- Only for Window 7*
  - *- Lenovo Solution Center*
  - *- Lenovo System Update*
  - *- Create Recovery Media*
  - *- Adobe® Reader®*

#### Environment

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

#### 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, January 2018
### 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>
</tr>
</thead>
<tbody>
<tr>
<td>Ryzen 3 PRO 1200</td>
<td>4 / 4</td>
<td>3.1 / 3.4</td>
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<td>None</td>
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<td>Ryzen 3 PRO 1300</td>
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<td>3.5 / 3.7</td>
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<td>Ryzen 5 PRO 1500</td>
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<td>3.5 / 3.7</td>
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<tr>
<td>Ryzen 7 PRO 1700</td>
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<td>PRO A6-8570</td>
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<td>3.6 / 3.8</td>
<td>1MB</td>
<td>Radeon R7 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>
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<td>PRO A12-8870</td>
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<td>Radeon R7 Series</td>
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<td>PRO A6-9500</td>
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<td>3.5 / 3.8</td>
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<td>PRO A8-9600</td>
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<td>2MB</td>
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<td>3.5 / 3.8</td>
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</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

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

### Optical

- Optional internal speaker (1.5 watt)
- 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™ connections (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 x 8 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

### Security features

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

### Keyboard

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

### 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. 13.2 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

### 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 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
- For Windows 7
- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- Create Recovery Media
- Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black
- Lenovo Calliope Keyboard (USB connector), black
- Lenovo Calliope Mouse Wireless (2.4GHz via USB receiver), black
- Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black

### 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.lenovoupick.com](http://www.lenovoupick.com)
## ThinkCentre M715 Tiny Platform Specifications

**Processor**

<table>
<thead>
<tr>
<th>APU</th>
<th>Cores</th>
<th>Frequency</th>
<th>L2 Cache</th>
<th>Memory Types</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRO A6-9500E</td>
<td>2</td>
<td>3.0 / 3.4 GHz</td>
<td>1 MB</td>
<td>DDR4-2400</td>
<td>Radeon R5 Series</td>
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<tr>
<td>PRO A10-9700E</td>
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<td>3.0 / 3.5 GHz</td>
<td>2 MB</td>
<td>DDR4-2400</td>
<td>Radeon R7 Series</td>
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<tr>
<td>PRO A12-9800E</td>
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<td>3.1 / 3.8 GHz</td>
<td>2 MB</td>
<td>DDR4-2400</td>
<td>Radeon R7 Series</td>
</tr>
<tr>
<td>PRO A6-8570E</td>
<td>2</td>
<td>3.0 / 3.4 GHz</td>
<td>1 MB</td>
<td>DDR4-2400</td>
<td>Radeon R5 Series</td>
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<tr>
<td>PRO A10-8770E</td>
<td>4</td>
<td>2.8 / 3.5 GHz</td>
<td>2 MB</td>
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<td>Radeon R5 Series</td>
</tr>
<tr>
<td>PRO A12-8870E</td>
<td>4</td>
<td>2.9 / 3.8 GHz</td>
<td>2 MB</td>
<td>DDR4-2400</td>
<td>Radeon R7 Series</td>
</tr>
</tbody>
</table>

**Memory**

- 32GB max, DDR4 2400, two 260-pin SO-DIMM sockets, dual-channel capable
- *16GB single SO-DIMM memory is only available via special bid models

**Disk**

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

**Optical**

- None

**Onboard SATA Media reader**

- 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 maximum of 2 concurrent HDMI/DVI displays when using HDMI port or DP to DVI/DVI dongles);
- Max resolution: 4096x2160 (DP)@60Hz; 4096x2160 (HDMI)@30Hz; 1920x1200 (VGA)@60Hz;
- Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

**Chipset**

**AMD B300 Chipset**

**Front ports**

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

**Rear ports**

- 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
- Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2, via USB port (occupy one specific USB 2.0 of M715q Tiny)

**I/O box**

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

**Audio support**

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

**WLAN**

- **Some:** 11ac wireless, M.2 Card, Realtek RTL8821AE (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
- **Some:** 11ac wireless, M.2 Card, Realtek RTL8822BE (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

**Ethernet Modem**

- None

**Manageability**

**Security chip**

- DASH 1.0/1.1
- Discrete TPM 2.0, TCG Certified

**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

**Keyboard**

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

**Mouse**

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

**Mechanical**

- Tiny (1L), black color; metal case
- M715 Tiny 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

**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**

**Preloaded operating system**

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

**Preloaded applications (only some listed)**

- Windows 10 only
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate Windows 7 only
- Lenovo Solution Center
- ThinkVantage System Update
- Create Recovery Media
- Lenovo ThinkVantage Tools
- CyberlinkPowerDVD Create(DVD±RW)
- Microsoft Office preloaded; purchase a product key to activate Adobe® Reader®

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

Lenovo, October 2017
<table>
<thead>
<tr>
<th>Processor</th>
<th>AMD Athlon, A6, A10, A12, or Ryzen processor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Processor</strong></td>
<td><strong>Cores / Threads</strong></td>
</tr>
<tr>
<td>Athlon 200GE</td>
<td>2 / 4</td>
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<tr>
<td>Athlon PRO 200GE</td>
<td>2 / 4</td>
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<tr>
<td>PRO A6-8570E</td>
<td>2 / 2</td>
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<tr>
<td>PRO A10-8770E</td>
<td>4 / 4</td>
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<tr>
<td>PRO A6-9500E</td>
<td>2 / 2</td>
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<tr>
<td>PRO A10-9770E</td>
<td>4 / 4</td>
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<td>Ryzen 5 2400GE</td>
<td>4 / 4</td>
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<tr>
<td>Ryzen 5 PRO 2400GE</td>
<td>4 / 4</td>
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<tr>
<td><strong>Memory</strong></td>
<td>32GB max, DDR4 2666*, two 260-pin SO-DIMM sockets, dual-channel capable</td>
</tr>
<tr>
<td>* System automatically locks down for the lower memory controller</td>
<td></td>
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<tr>
<td><strong>Disk</strong></td>
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<td></td>
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<tr>
<td><strong>Optical</strong></td>
<td>Some:</td>
</tr>
<tr>
<td></td>
<td>Some:</td>
</tr>
<tr>
<td><strong>Onboard SATA</strong></td>
<td>One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar</td>
</tr>
<tr>
<td><strong>Graphics</strong></td>
<td>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 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) @ 30Hz; 1920x1200 (VGA) @ 60Hz</td>
</tr>
<tr>
<td><strong>Monitor cable</strong></td>
<td>Optional DP to VGA dongle, DP to DVI-D dongle, or DP to HDMI 1.4 dongle</td>
</tr>
<tr>
<td><strong>Chipset</strong></td>
<td>AMD B300 Chipset</td>
</tr>
<tr>
<td><strong>Front ports</strong> <em>(Std.)</em></td>
<td>Two USB 3.1 Gen1 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone (stereo / microphone combo jack (stereo, 3.5mm))</td>
</tr>
<tr>
<td><strong>Rear ports</strong> <em>(Std.)</em></td>
<td>One USB 3.1 Gen1 and three USB 2.0, ethernet (RJ-45), two DisplayPort, one headphone, one microphone</td>
</tr>
<tr>
<td><strong>Rear ports</strong> <em>(Opt.)</em></td>
<td>One optional port (VGA**, 3rd DP**, HDMI**, or serial on some models)</td>
</tr>
<tr>
<td>* Depending on many factors, actual data transfer speed may be less than theoretical speed ** Not support VGA, 3rd DP, HDMI for the models with Athlon / Athlon PRO</td>
<td></td>
</tr>
<tr>
<td><strong>Audio support</strong></td>
<td>High Definition (HD) Audio, Realtek ALC233-VB2 / internal speaker (1.5 watt)</td>
</tr>
<tr>
<td><strong>WLAN</strong></td>
<td>Some:</td>
</tr>
<tr>
<td></td>
<td>Some:</td>
</tr>
<tr>
<td></td>
<td>Some:</td>
</tr>
<tr>
<td></td>
<td>Some:</td>
</tr>
<tr>
<td><strong>Bluetooth</strong></td>
<td>Some:</td>
</tr>
<tr>
<td>* Hardware supports BT 4.2, but Win10 RS3 and earlier only supports BT 4.1</td>
<td>Gigabit ethernet, Realtek RTL8111E/PV, Wake on LAN**</td>
</tr>
<tr>
<td><strong>Manageability</strong></td>
<td>DASH 1.0/1.1</td>
</tr>
<tr>
<td><strong>Security chip</strong></td>
<td>Discrete TPM 2.0, TCG Certified</td>
</tr>
<tr>
<td><strong>Security features</strong></td>
<td>● Security slot (in rear for optional Kensington® MicroSaver® cable)</td>
</tr>
<tr>
<td></td>
<td>● Padlock loop</td>
</tr>
<tr>
<td></td>
<td>● Smart USB protection, allows keyboards / mouse only, blocks all storage devices</td>
</tr>
<tr>
<td></td>
<td>● Power-on password</td>
</tr>
<tr>
<td><strong>Administrator password</strong></td>
<td>● Hard disk password</td>
</tr>
<tr>
<td></td>
<td>● Boot sequence control</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>● Chassis intrusion switch</td>
</tr>
<tr>
<td><strong>Keyboard</strong></td>
<td>Some:</td>
</tr>
<tr>
<td></td>
<td>Some:</td>
</tr>
<tr>
<td></td>
<td>Some:</td>
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<tr>
<td></td>
<td>Some:</td>
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<tr>
<td></td>
<td>Some:</td>
</tr>
<tr>
<td><strong>Mouse</strong></td>
<td>Some:</td>
</tr>
<tr>
<td>* Hardware supports BT 4.2, but Win10 RS3 and earlier only supports BT 4.1</td>
<td></td>
</tr>
<tr>
<td><strong>Mechanical</strong></td>
<td>Tiny (1L), black color; metal case</td>
</tr>
<tr>
<td></td>
<td>● Touchless chassis open (need optional touchless chassis screw)</td>
</tr>
<tr>
<td></td>
<td>● Optional dust filter</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>65 watts AC/DC adapter, autoselecting, 94% PSU (not included for TIO models)</td>
</tr>
<tr>
<td><strong>Limit</strong></td>
<td>1-year or 3-year, limited onsite service / service upgrades available</td>
</tr>
<tr>
<td><strong>Preload</strong></td>
<td><strong>Preloaded operating system</strong></td>
</tr>
<tr>
<td></td>
<td>Some:</td>
</tr>
<tr>
<td></td>
<td>Some:</td>
</tr>
<tr>
<td></td>
<td>Preloaded applications (only some listed)</td>
</tr>
<tr>
<td></td>
<td>Some:</td>
</tr>
<tr>
<td></td>
<td>Some:</td>
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<td>Some:</td>
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<tr>
<td></td>
<td>Some:</td>
</tr>
<tr>
<td><strong>Environment</strong></td>
<td>ENERGY STAR® 7.0*, EPEAT™ Gold rating* (&quot;Not for non-QS models); ErP Lot 3; RoHS-compliant</td>
</tr>
<tr>
<td><strong>MIL-SPEC test</strong></td>
<td>MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock)</td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td>For compatible accessories, please go to <a href="http://smartfind.lenovo.com">http://smartfind.lenovo.com</a></td>
</tr>
</tbody>
</table>

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

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

### Product Specifications Reference (PSREF)

**Lenovo, October 2017**

### Processor
- **APU**: AMD A6, A10, or A12 series APUs
  - **Cores**: PRO A6-8570E: 2, PRO A10-8770E: 4, PRO A12-8870E*: 4
  - **Frequency Base/Max**: PRO A6-8570E: 3.0 / 3.4 GHz, PRO A10-8770E: 2.8 / 3.5 GHz, PRO A12-8870E*: 2.9 / 3.8 GHz
  - **L2 Cache**: 1 MB
  - **Memory Types**: DDR4-2400
  - **Integrated Graphics**: Radeon R5 Series
  - **Integrated Graphics**: Radeon R7 Series

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

### Disk
- **Some**: 256GB Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
- **Some**: 32GB M.2 Solid State Drive (SSD) / SATA2 interface
- **Some**: 128GB M.2 Solid State Drive (SSD) / PCIe NVMe interface
- **None**: One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

### Optical
- **None**: None

### 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 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

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

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

### 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*
- 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 / microphone combo jack (stereo, 3.5mm)

### I/O box
- **Audio support**: High Definition (HD) Audio, Realtek ALC233-CG / internal speaker (1.5 watt)

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

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

### Ethernet
- **Gigabit ethernet, Realtek RTL8111E PV, Wake on LAN™**

### Manageability
- **Security chip**: DASH 1.0/1.1
- **Security features**: 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, Power-on password
- **Security features**: Administrator password, Hard disk password, Boot sequence control, Individual USB port disablement, Chassis intrusion switch

### Security features
- **Security chip**: Discrete TPM 2.0, TCG Certified

### Preload
- **Preloaded operating system**: Windows Embedded Standard 7 V2 (WES 7 V2) / LeTOS V2 (Lenovo Terminal Operating System, Linux-based)

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

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**Note**: Depending on many factors, actual data transfer speed may be lower than theoretical speed.
## ThinkCentre M715 Tiny Thin Client (2nd Gen) Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>APU</th>
<th>Cores / Threads</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>Athlon PRO 200GE</td>
<td>2 / 4</td>
<td>3.2 GHz</td>
<td>1 MB 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</td>
<td>1 MB DDR4-2933</td>
<td>Radeon R5</td>
<td></td>
</tr>
<tr>
<td>PRO A10-8770E</td>
<td>4 / 4</td>
<td>2.8 / 3.5 GHz</td>
<td>2 MB DDR4-2400</td>
<td>Radeon R7</td>
<td></td>
</tr>
<tr>
<td>Ryzen 3 PRO 2200GE</td>
<td>4 / 4</td>
<td>3.2 / 3.6 GHz</td>
<td>2 MB DDR4-2933</td>
<td>Radeon Vega 8</td>
<td></td>
</tr>
</tbody>
</table>

### Memory

- 8GB max, DDR4 2666*, two 26-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

### Optical Onboard SATA

- One SATA cable (1-drop to device), one SATA 6.0G/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 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) @ 30Hz, 1920x1200 (VGA) @ 60Hz
- Optional DP to VGA dongle, DP to DVI-D dongle, or DP to HDMI 1.4 dongle

### Chipset

- AMD B300 Chipset

### Monitor cable

- 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 (RJ-45), two DisplayPort, one headphone
- 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 ALC233-VB / 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

### Bluetooth Ethernet

- 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
- Gigabit ethernet, Realtek RTL81111EPV, Wake on LAN

### Manageability

- DASH 1.0/1.1
- Discrete TPM 2.0, TCG Certified
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password

### Security chip

- Authenticator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

### Security features

- 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

### Mechanical

- Tiny (1L), black color; metal case
- Toolless chassis open (need optional toolless chassis screw)
- Optional dust filter
- Toolless chassis open (need optional toolless chassis screw)
- Custom power supplies: 65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

### 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 Gold 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)

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Note: The specifications above may not be available in all regions.
### Memory
64GB max, UDIMM, DDR4-2666, four 288-pin DIMM sockets, non-EC, 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:** M.2 SSD (2242) PCie NVMe only supports PCIe 3.0 x 2, 16Gb/s

### Optical
- **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)

### Onboard SATA 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) @ 60Hz
- **Some:** NVIDIA GeForce® GT 730, DirectX 12, 2GB, PCIe 2.0 x16 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 (for Collage Display with intel integrated graphics), or DP to HDMI 1.4 dongle

### Chipset
Intel B360 Chipset

### Preload
**Preloaded operating system**
- Windows® 10 Pro 64-bit
- 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 PowerGo (only for models with DVD±RW)
- LinkedIn

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

### Audio support
- High Definition (HD) Audio, Realtek ALC223VB / internal speaker (2 watt )

### WLAN
- **Some:** 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1

### Product Specifications Reference (PSREF)
Lenovo, June 2019
### ThinkCentre M720 Tiny Platform Specifications

**Product Specifications Reference (PSREF)**

<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Celeron™, Intel Pentium™, or 8th Generation Intel® Core™ / i3 / i5 / i7 Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Celeron G4900T</strong></td>
<td>2 / 2</td>
</tr>
<tr>
<td><strong>Pentium Gold G5400T</strong></td>
<td>2 / 4</td>
</tr>
<tr>
<td><strong>Intel® Core™ i3-8100T</strong></td>
<td>4 / 4</td>
</tr>
<tr>
<td><strong>Intel® Core™ i3-8300T</strong></td>
<td>4 / 4</td>
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<tr>
<td><strong>Intel® Core™ i5-8400T</strong></td>
<td>6 / 6</td>
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<tr>
<td><strong>Intel® Core™ i5-8500T</strong></td>
<td>6 / 6</td>
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<tr>
<td><strong>Intel® Core™ i5-8600T</strong></td>
<td>6 / 6</td>
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<td><strong>Intel® Core™ i5-9300T</strong></td>
<td>4 / 4</td>
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<td><strong>Intel® Core™ i5-9600T</strong></td>
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<tr>
<td><strong>Intel® Core™ i7-9700T</strong></td>
<td>8 / 8</td>
</tr>
<tr>
<td><strong>Intel® Core™ i9-9900T</strong></td>
<td>8 / 16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Memory</th>
<th>32GB max. DDR4-2666, two 260-pin SO-DIMM sockets, non-ECC, dual-channel capable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage</td>
<td>Some: Hard Drive / SATA 6.0Gb/s, 2.5&quot;, 5400 rpm or 7200 rpm</td>
</tr>
<tr>
<td></td>
<td>Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5&quot;</td>
</tr>
<tr>
<td></td>
<td>Some: M.2 / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s</td>
</tr>
<tr>
<td></td>
<td>* 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s</td>
</tr>
<tr>
<td>Optical</td>
<td>Some: Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2</td>
</tr>
<tr>
<td></td>
<td>Some: DVD-ROM, slim (9.0mm), via USB external ODD box</td>
</tr>
<tr>
<td>Onboard SATA</td>
<td>Some: DVD Burner (DVD+RW), slim (9.0mm), via USB external ODD box</td>
</tr>
</tbody>
</table>

| 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: 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® B360 Chipset |

| Front ports (Std) | one USB 3.1 Gen1 (Always On and fast charge), one USB 3.1 Type-C Gen1, one microphone (3.5mm), one headphone / microphone combo jack (3.5mm) |
| Rear ports (Std) | 2x USB 3.1 Gen2, 2x USB 3.1 Gen1, 1x ethernet (RJ-45), 1x DisplayPort, 1x HDMI |
| Rear ports (Opt) | Two optional ports (mutually exclusive with PCIe card): Port 1 for VGA / 2nd DP / 2nd HDMI / serial / USB 3.1 Type-C Gen1 with DP function; Port 2 for serial; Optional ports via PCIe card: 2x USB 3.1 Gen1 via PCIe x1, 4x serial (9-pin) via PCIe x1 |
| Audio support | Realtek ALC233V2B / optional internal speaker (1.5 watt or 2 watt) |

| WLAN | Some: 11ac wireless, M.2 Card, Realtek RTL8882CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1 |
|      | Some: 11ac wireless, M.2 Card, Realtek RTL8882BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2 |

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

| Ethernet | Some: Intel Ethernet Connection I219-V (Jacksonville), Wake on LAN™ |
| Ethernet (Opt.) | Some: Intel Ethernet Server Adapter I350-T4, gigabit ethernet, 4x RJ-45, PCIe x4 |

### Manageability

| Security chip | None |
| Security features | Discrete TPM 2.0, TCG Certified |
|                  | - 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

| Mouse | 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 |

### Mechanical

| Tiny (1L), black color; metal case |
| Toleless chassis open (need optional toleless chassis screw) |
| Toleless SSD, SSD memory removal |
| Optional dust filter |
| one 2.5" bay for HDD/SSD, one PCIe 3.0 x8 slot (low-profile), two M.2 slots (one for WLAN, one for M.2 SSD), 2.5" HDD/SSD and PCIe card are mutually exclusive |

### VESA mount

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

### 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 |

### 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 |
| 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) |
|                              | One (3.5mm) |
|                              | Lenovo Power2GO (only for models with DVD+RW) |
|                              | Lenovo Traditional Keyboard (USB connector) |
|                              | Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black |

### Environment

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

### MIL-STD test

| MIL-STD-810G military certification (Low Pressure [Altitude], High 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.
ThinkCentre M720 Tower Platform Specifications

Product Specifications Reference (PSREF)

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

Lenovo, June 2019

<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Celeron®, Intel Pentium®, or 8th Generation Intel Core™ 3 / 5 / 7 Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel® Celeron G4900</td>
<td>2 / 2</td>
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<tr>
<td>Intel® Celeron G4920</td>
<td>3.2G</td>
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<tr>
<td>Intel® Pentium Gold G5400</td>
<td>3.6G</td>
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<td>Intel® Pentium Gold G5600</td>
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<td>Intel® Core i3-8100</td>
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<td>Intel® Core i3-8300</td>
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<td>Intel® Core i7-8700</td>
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<td>Intel® Core i7-9400</td>
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<td>Intel® Core i9-9700</td>
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<tr>
<td>Intel® i9-9900</td>
<td>8 / 16</td>
</tr>
</tbody>
</table>

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
- Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4*, 32Gb/s
- Some: M.2 SSD M.2 (MM24) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s

Optical

- 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)

Onboard SATA 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, G89, PCIe 2.0 x16 adapter
- Some: NVIDIA GeForce® GT 730, two DisplayPort, 35 watts,
- Max resolution: 3840x2160 (DisplayPort) @ 60Hz

Audio support

- High Definition (HD) Audio, Realtek ALC232VB / internal speaker (2 watt )

Audio support

- High Definition (HD) Audio, Realtek ALC232VB / 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: Preloaded operating system

Bluetooth

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

Ethernet

- Some: Gigabit Ethernet, Intel Ethernet Connection I219-V (Jacksonville), Wake on LAN®
- Some: Intel Ethernet Server Adapter I350-T4*, gigabit ethernet, 4x RJ-45, PCIe x4

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 / DVD±RW)

Environment

- ENERGY STAR® 6.1, EPEAT™ Gold 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
### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>AMD A6 / A8 / A10 / A12 and Ryzen 3 / 5 / 7 series processor</th>
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<tbody>
<tr>
<td>Cores/Threads</td>
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<td>Frequency (Base/Max)</td>
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<td>L2 Cache</td>
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<tr>
<td>Memory Support (Up to)</td>
<td>DDR4-2400</td>
</tr>
<tr>
<td>Integrated Graphics</td>
<td>Radeon R5</td>
</tr>
</tbody>
</table>

### Memory

- 4GB 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" or m.2 2280 PCIe NVMe, PCIe 3.0 x 4, 320-512Gb/s
- * 128GB SSD M.2 (2242) PCIe NVMe and AMD A6 / A8 / A10 / A12 processor also supports PCIe 3.0 x 2, 16Gb/s

### Optical

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

### 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 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 (8x 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 DVI dongle, of DP to HDMI 1.4 dongle

### Chipset

- AMD B450 Chipset

### Front 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)
- Optional: 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)
- Optional: 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, 1x1
- Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (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

### Bluetooth

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

### Ethernet (Opt.)

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

### Manageability

- DASH 10/1.1

### Security chip

- 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

### Mechanical

- SFF (8.4L), black color: metal case
- (Wx DxH) 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

### Power supply

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

### Floor Stand

- Optional system floor stand for vertical orientation

### Preloaded applications (only some listed)

- Lenovo Vantage
- Microsoft Office preloaded
- Cyberlink PowerDVD (only for models with DVD / DVD±RW)
- Cyberlink Power2GO (only for models with DVD±RW)
- LinkedIn

### Environment

- ENERGY STAR® 7.0, EPEAT® Gold rating* (*not for non-OS models)

### Accessories

- 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>
<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>
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<tr>
<td>Core i5-6700</td>
<td>4 / 8</td>
<td>3.4G / 4.0G</td>
<td>8 MB</td>
<td>DDR4-2133</td>
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<td>Core i3-7300</td>
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<td>Core i5-7600</td>
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<td>3.5G / 4.1G</td>
<td>6 MB</td>
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<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, DDR4-2400*, 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"
- 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-ROM SATA 1.5Gb/s Drive, slim (9.0mm)
- Some: DVD Burner (DVD±R), 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 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® 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 second 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
- Rear audio ports
  - IEEE 1394*:
    - 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
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

### Bluetooth™

- None

### Ethernet Modem

- Gigabit ethernet, Intel Ethernet Connection I219-LM(Jacksonville), Wake on LAN™
  - 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)
- Padlock loop
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Optional cable lock to physically lock both keyboard and mouse

### 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

### 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
- (WxHxD): 3.6" X 11.4" X 13.5"; 92.5mm X 290.5mm X 343.5mm
- Approx. 11.92 lb (5.4 kg), weight may vary by configuration
- Tooless cover, disk, optical, graphic card removal
- Optional dust filter
- Bay 1: Slim external ODD bay
- Bay 2: 3.5", 1" high, internal, HDD/SSD
- Slot 1: 2.5", internal, HDD/SSD (optional bay)
- Slot 2: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x16*
- Slot 3: low-profile (length < 150mm, height < 68mm), 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/Optane)
  - * 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 antennas one expansion slot

### Floor Stand

- Optional system stand for floor 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: 3-year or 3-year, limited onsite service / service upgrades available

### Preload

- Preloaded operating system
  - Some: Windows® 7 Professional 32/64 preinstalled during downgrade rights in Windows 10 Pro 64-bit (not available with 7th Gen Intel processor)
  - * Only for Window 10
  - * Lenovo Companion
  - * Lenovo Solution Center
  - * Lenovo ThinkVantage Tools
  - * Create Recovery Media
  - * Adobe® Reader
  - * Cyberlink PowerDVD Create (DVD±RW)
- Preloaded applications (only some listed)
  - Some: Microsoft Office preloaded; purchase a product key to activate
  - * Only for Window 7
  - * Lenovo Companion
  - * 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, 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>Processor</th>
<th>Cores / Threads</th>
<th>Frequency (GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
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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

**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
- Some: DVD-ROM, slim (9.0mm), via USB external ODD box
- Some: DVD Burner (DVD±RW), slim (9.0mm), via USB external ODD box
- One onboard SATA 6.0Gb/s connector

**Optical**

- Intel HD Graphics 510/530/610/630 in processor, uses main memory, DirectX 12, 2x 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;
- 1920x1200 (VGA)@60Hz
- Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

**Monitor cable**

- Rear ports*:
  - Two USB 3.1 Gen1 (one is Always On and fast charge), one microphone (3.5mm), one headphone / microphone jack (3.5mm)
- Rear ports*:
  - Four USB 3.1 Gen1 (external optional optical box or external I/O box occupies one or two possible USB 3.1 Gen1 USB ports, 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 ALC224 / optional internal speaker (1w 2w)

**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 8265, 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™:
  - 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)

**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)
- 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 chassis 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)

**VESA mount**

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

**Power on/off**

- 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 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**

- 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)
- MIL-SPEC test:

**Accessories**

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

See footnotes for more detailed information © Lenovo (M910 Tiny-Spec) February 2017
<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel Celeron®, Intel Pentium®, or 6th/7th Generation Intel Core™ i3 / i5 / i7 Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory</td>
<td>64GB max, UDIMM, DDR4-2400*, four 288-pin DIMM sockets, non-ECC, dual-channel capable</td>
</tr>
<tr>
<td>Storage</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>Optical</td>
<td>Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2</td>
</tr>
<tr>
<td>Onboard SATA</td>
<td>Four onboard SATA 6.0GB/s connectors (1x eSATA and 3x SATA), RAID 0/1 support (RAID preset only available via special bid model)</td>
</tr>
<tr>
<td>Media reader</td>
<td>Optional 7-in-1 media reader</td>
</tr>
<tr>
<td>Graphics</td>
<td>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;</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel Q270 Chipset</td>
</tr>
<tr>
<td>Front ports*</td>
<td>Four USB 3.1 Gen1, optional two USB 3.1 Type-C Gen 2 (only available via special bid model), microphone (3.5mm), headphone (3.5mm)</td>
</tr>
<tr>
<td>Rear ports*</td>
<td>Four USB 3.1 Gen1, optional two USB 2.0, serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional two PS/2 ports (keyboard/mouse);</td>
</tr>
<tr>
<td>Rear audio ports*</td>
<td>IEEE 1394*</td>
</tr>
<tr>
<td>Audio support</td>
<td>High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)</td>
</tr>
<tr>
<td>WLAN</td>
<td>Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377TA (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1</td>
</tr>
<tr>
<td>Preload</td>
<td>Preloaded operating system</td>
</tr>
<tr>
<td>Preloaded applications (only some listed)</td>
<td>Lenovo Companion</td>
</tr>
<tr>
<td>Power supply</td>
<td>Some: 180 watts, auto-sensing, 85% PSU</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>Some: 1-year or 3-year, depot service / service upgrades available</td>
</tr>
<tr>
<td>Environment</td>
<td>ENERGY STAR® 6.1, EPEAT® Gold rating (North America), EEP LoT 3, GREENGUARD® Gold, RoHS-compliant, TUV low noise verified (on some models)</td>
</tr>
<tr>
<td>Accessories</td>
<td>For compatible accessories, please go to <a href="http://www.lenovosupport.com">http://www.lenovosupport.com</a></td>
</tr>
</tbody>
</table>
**ThinkCentre M910x Tiny Platform Specifications**

**Processor**

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel Celeron</td>
<td>4 / 4</td>
<td>2.50 / 3.1G</td>
<td>6 MB</td>
<td>DDR4-2133</td>
<td>HD 530</td>
</tr>
<tr>
<td>Intel Pentium</td>
<td>4 / 8</td>
<td>2.85 / 3.6G</td>
<td>8 MB</td>
<td>DDR4-2133</td>
<td>HD 530</td>
</tr>
<tr>
<td>Intel Core i3</td>
<td>4 / 4</td>
<td>2.85 / 3.6G</td>
<td>8 MB</td>
<td>DDR4-2133</td>
<td>HD 530</td>
</tr>
<tr>
<td>Intel Core i5</td>
<td>4 / 4</td>
<td>3.00 / 3.6G</td>
<td>8 MB</td>
<td>DDR4-2133</td>
<td>HD 530</td>
</tr>
<tr>
<td>Intel Core i7</td>
<td>4 / 8</td>
<td>3.40 / 3.6G</td>
<td>8 MB</td>
<td>DDR4-2133</td>
<td>HD 530</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.

**Storage**

- Some: Hard Drive/*, SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm, APS (optional)
- Some: Solid State Drive (SSD)/*, SATA 6.0Gb/s, 2.5" (*2.5" HDD/SSD and RX 460 graphics are mutually exclusive)
- Some: M.2 SSD (support up to two M.2 SSD)*/PCIe NVMe, PCIe 3.0 x 4, 32Gb/s, RAID 0/1 support (RAID preset only available via special bid model)
- Some: Intel Optane Memory (models with 7th gen Core processor), M.2
- Some: DVD-ROM, slim (9.0mm), via USB external odd box
- Some: DVD Burner (DVDSW), 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;
- Some: AMD Radeon™ RX 460, DirectX 12, 4GB, PCIe 3.0 x8 adapter (low profile), four mini DisplayPort, 35 watts (TDP), up to 4 independent displays, works along with 2 onboard DisplayPort to support up to 6 independent displays;
- Max resolution: 4096x2160@60Hz
- Intel HD Graphics 540/560/630/630/690

**Chipset**

- Intel Q270 chipset
- Intel Q170 chipset

**Power supply**

- 335 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® 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

**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**


**Preloaded applications (only some listed)**

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

**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 4.2 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, 2x2
- 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 Dual Band Wireless-AC 8265, 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
- 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

**Toolless chassis open**

- Chassis intrusion switch
- Individual USB port disablement
- Boot without keyboard and mouse
- Boot sequence control
- Hard disk password

**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

**Audio**

- Intel Unite (vPro models only)

**Ethernet**

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

**Power-on password**

- Chassis intrusion switch

**Mechanical**

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

**Dimensions (WxDxH)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions (WxDxH)</th>
<th>Weight (Approx.)</th>
<th>Warranty</th>
</tr>
</thead>
<tbody>
<tr>
<td>M910 Tiny only</td>
<td>7.05&quot; X 7.20&quot; X 1.36&quot;</td>
<td>2.91 lb (1.32 kg), vary by config</td>
<td>1-year or 3-year, limited onsite service / service upgrades available</td>
</tr>
<tr>
<td>With VESA mount &amp; I/O box</td>
<td>7.42&quot; X 7.30&quot; X 2.48&quot;</td>
<td>3.66 lb (1.66 kg), vary by config</td>
<td>1-year or 3-year, limited onsite service / service upgrades available</td>
</tr>
</tbody>
</table>

**Power supply**

- 335 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® 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

**Available options**

- Intel Core i3/i5/i7 Processor
- Intel Graphics 510/530/610/630
- Intel Unite (vPro models only)
- Intel Unite download link
- vPro models only
- Only for Windows 7
- Lenovo Companion
- Intel Unite download link
- vPro models only
- Only for Windows 7
- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- Create Recovery Media
- Adobe® Reader®
- Cyberlink PowerDVD Create (DVDSW)
- Intel Unite (vPro models only)

**Accessories**

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

See footnotes for more detailed information © Lenovo (M910x Tiny-Spec) May 2017
**ThinkCentre M920 SFF Platform Specifications**

**Processor**
- Intel® Celeron™, Intel Pentium™, or 8th Generation Intel® Core™ i3 / i5 / i7 Processor
- Processor Cores / Threads: 2 / 2
- Frequency Base/Max (GHz): 3.1G
- Cache: 2 MB
- Memory Support (Up to): DDR4-2400
- Integrated Graphics: UHD 610

**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.Gb/s, 2.5” or 3.5”, 5400 rpm or 7200 rpm
- Some: Solid State Drive (SSD) / SATA 6.0.Gb/s, 2.5”
- Some: M.2 Solid State Drive (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
- 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)

**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: 3840x2160 (DP)@60Hz; 2048x1536 (VGA)@50Hz
- Some: NVIDIA GeForce® GT 730, DirectX 12, 2GB, PCIe 2.0 x16 adapter, two DisplayPort, 35 watts;
- Monitor cable: Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle (for Collage Display with integrated graphics), or DP to HDMI 1.4 dongle

**Chipset**
- Intel Q370 Chipset

**Audio support**
- High Definition (HD) Audio, Realtek ALC233VB/ internal speaker (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
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-Ac 1165, 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

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

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

**Preload applications (only some listed)**
- Lenovo Vantage
- Microsoft Office preloaded;
- Cyberlink PowerDVD (only for models with DVD / DVD+RW)
- Cyberlink Power2GO (only for models with DVD+RW)
- LinkedIn

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

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

**Security features**
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Hard disk password
- Key lock loop
- Optional cable lock to physically lock both keyboard and mouse
- Optional chassis intrusion switch
- Optional chassis E-Lock (special bid)

**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)

**Power-on password**
- Administrator 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**
- SFF (8.4L), black color, metal case
- 13.28 x 3.6” x 2.9”
- Weight: 35.25 lbs
- TUV low noise verified (coming soon, on some models), RoHS-compliant

**Environmental**
- ENERGY STAR® 6.1, EPEAT® Gold rating (North America), ErP Lot 3, TCO, TVU 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, July 2018
### ThinkCentre M920 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>Celeron G4900T</td>
<td>2 / 2</td>
<td>2.9G</td>
<td>2 MB</td>
<td>DDR4-2400</td>
<td>UHD 610</td>
</tr>
<tr>
<td>Pentium Gold G5400T</td>
<td>2 / 4</td>
<td>3.1G</td>
<td>4 MB</td>
<td>DDR4-2400</td>
<td>UHD 610</td>
</tr>
<tr>
<td>Pentium Gold G5400T</td>
<td>2 / 4</td>
<td>3.2G</td>
<td>4 MB</td>
<td>DDR4-2400</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Core i3-8300T</td>
<td>4 / 4</td>
<td>3.1G</td>
<td>6 MB</td>
<td>DDR4-2400</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Core i3-8300T</td>
<td>4 / 4</td>
<td>3.2G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Core i5-8400T</td>
<td>6 / 6</td>
<td>1.7G / 3.3G</td>
<td>9 MB</td>
<td>DDR4-2666</td>
<td>UHD 666</td>
</tr>
<tr>
<td>Core i5-8500T</td>
<td>6 / 6</td>
<td>2.1G / 3.5G</td>
<td>9 MB</td>
<td>DDR4-2666</td>
<td>UHD 666</td>
</tr>
<tr>
<td>Core i5-8500T</td>
<td>6 / 6</td>
<td>2.3G / 3.7G</td>
<td>9 MB</td>
<td>DDR4-2666</td>
<td>UHD 666</td>
</tr>
<tr>
<td>Core i7-8700T</td>
<td>6 / 12</td>
<td>2.4G / 4.0G</td>
<td>12 MB</td>
<td>DDR4-2666</td>
<td>UHD 666</td>
</tr>
</tbody>
</table>

**Memory**

32GB max, DDR4-2666*, two 260-pin SO-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", 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 provides PCIe 3.0 x 2, 16Gb/s

**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

**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.)*: 2x USB 3.1 Gen2, 2x USB 3.1 Gen1, 1x ethernet (RJ-45), 1x DisplayPort, 1x HDMI

Rear ports (Opt.)*: 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 ports via 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, M2 Card, RealtekRTL8822CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M2 Card, RealtekRTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, Intel vPro technology support, 2x2

**Ethernet**

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

**Bluetooth**

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

**Memory Support**

Some: DDR4-2666, two 260-pin SO-DIMM sockets, non-ECC, dual-channel capable

**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 Gen 1 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

**Chassis**

**Intel Q370 Chipset**

**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

**Environmental**

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

**Mechanical**

Tiny (1L), black color; metal case

* Tootless chassis open (need optional tootless chassis screw)

* Tootless HDD, SSD, memory removal

* Optional dust filter

* 2.5" bay for HDD/SSD, one PCIe 3.0 x8 slot (low-profile), two M.2 slots (one for WLAN, one for M.2 SSD), 2.5" HDD/SSD and PCIe card are mutually exclusive

**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 slot (in rear for optional Kensington® MicroSaver® cable)

* Chassis intrusion switch

* Power-on password

* Administrator password

* Hard disk password

**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), 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

**Audio support**

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

**WLAN**

Some: 11ac wireless, M2 Card, RealtekRTL8822CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M2 Card, RealtekRTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, Intel vPro technology support, 2x2

**Ethernet**

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

**Bluetooth**

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

**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, July 2018
<table>
<thead>
<tr>
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</tr>
</tbody>
</table>

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
- * SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s

Optical

- Optional: Some: M.2 card slots: Two (one for WLAN, one for SSD/Optane)

Onboard SATA

- Four onboard SATA 6.0Gb/s connectors, RAID 0/1 (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 x 16 adapter, two DisplayPort, 35 watts;
- * Max resolution: 3840x2160 (DisplayPort) @ 60Hz;
- * Some: NVIDIA GeForce GTX 1060 (special bid only), DirectX 12, 6GB, PCIe 3.0 x 16 adapter, 1x DVI-D, 1x HDMI, 3x DP 1.2, 120 watts, occupies two slots;
- * Max resolution: 2560x1600 (DVI-D) @ 60Hz; 4096x2160 (HDMI) @ 60Hz 5120x3020 (DP) @ 60Hz

Monitor Cable

- Optional: DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle (for Collage Display with integrated graphics), or 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.)

- Optional: 1x 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.)

- Optional: 2x USB 2.0, 2x USB 3.1 Gen1 via PCIe 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), 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 ALC2332VB, "empire speaker (2 watt)"

WLAN

- Some: 11ac wireless, M.2 Card, Realtek RTL8882CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Realtek RTL8882BE (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™ Ethernet (Opt.)

- 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

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)

Mechanical

- Tower (19L), black color, metal case;
- (WxDxH) 6.5" x 12.65" x 16.15";
- Approx. 15.45 lb (7 kg), weight may vary by configuration;
- Tastless cover, disk, optical, extension card removal;
- Optional carry handle, dust filter;
- 1x Slim external ODD bay
- 2.5": 2.5", internal, ODD / optional front access HDD;
- Bay 3: 3.5", 1x, internal, HDD/SSD;
- Bay 4: 3.5", 1x, internal, HDD/SSD (optional bay, bay comes with disk)
- Bay 5: 2.5", internal, HDD/SSD (optional bay)

Notes:

- M920 Tower supports up to 3 SATA devices (ODD/HDD/SSD) and 1 eSATA device (front access HDD)
- Slot 1: full-length (< 268mm) full-height (< 112mm), PCIe 3.0 x 16
- Slot 2: full-length (< 268mm) full-height (< 112mm), PCIe 3.0 x 1
- Slot 3: full-length (< 268mm) full-height (< 112mm), PCIe 3.0 x 16 (x4 signal)
- Slot 4: no slot, only bracket for optional port extension
- M.2 card slots: Two (one for VLAN, one for SSD/Optane)

Power supply

- 180 watts, autosensing, 85% PSU
- 250 watts, autosensing, 85% PSU
- 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
- Software: 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
- Cyberlink PowerDVD (only for models with DVD / DVD±RW)
- Cyberlink Power2Go (only for models with DVD / DVD±RW)
- EnergySTAR® 6.1, EPEAT® Gold 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.
## ThinkCentre M920x Tiny Platform Specifications

**Product Specifications Reference (PSREF)**

### Processor

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### Memory

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

### 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 (support up to two M.2 SSD) / PCIe NVMe, PCIe 3.0 x 4, 32GB/s, RAID 0/1/0 support (RAID preset only available via special bid model)
- Some: 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe x4 3.0 x 2, 16GB/s
- Some: Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2

### Optical

- 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

- Some: 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 Gen 1 with DisplayPort function), up to 3 independent displays;
  - Max resolution: 4096x2160 (DP) @ 60Hz, 4096x2160 (Type-C) @ 60Hz;
  - Some: AMD Radeon™ RX 560, DirectX 12, 4GB DDR5, PCIe 3.0 x 8 adapter, 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 @ 60Hz (up to 4 Mini DisplayPort), 4x Mini DisplayPort.
- 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, direct Mini DP to DP.

### Chipset

- Intel® Q370 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)
  - Lenovo Traditional Keyboard (USB connector), black

### Mechanical

- Tiny (1L), black color; metal case
- Toolless chassis open (need optional toolless chassis screw)
- Toolless HDD, SSD, memory removal
- Optional dust filter
- One 2.5" bay for HDD/SSD, one PCIe 3.0 x 8 slot (low-profile), three M.2 slots (one for WLAN, two for M.2 SSD), 2.5" SSD/SSD and PCIe card are mutually exclusive

### Power Supply

- 135 watts AC/DC adapter, autosensing, 88% PSU

### Limited Warranty

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

### Preload

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

### Environment

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

### MIL-Spec Test


### Audio support

- Realtek ALC233VBZ / 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

### Preload operating system

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

### Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Chassis intrusion switch
- Power-on password
- Administrator password
- Hard disk password

### Bluetooth

- Ethernet

### Ethernet

- Ethernet (Opt.)

- 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

### Manageability

- Security chip

### Security chip

- Security features
  - 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 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

### Mechanical

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

### Power supply

- 135 watts AC/DC adapter, autosensing, 88% PSU

### Limited warranty

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

### VESA mount

- Mounting Floor Stand

### 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)
- Lenovo Traditional Keyboard (USB connector), black

### Environment

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

### MIL-Spec Test


### 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
## ThinkSmart Hub 500 Platform Specifications

### Product Specifications Reference (PSREF)

See footnotes for more detailed information

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### Positioning

Purpose-built Skype Room Systems device

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### Processor

- **7th Gen Intel Core™ i5 Processor with vPro**

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<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

- **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, anti-glare, smudge resistant

### Display

- Supports 10-point touch, OGS
- IR Presence/Motion sensor, automatically dim / brighten display
- (Detection angle: +/- 45% (from display); detection distance: 3 meters at minimum)
- 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
- Two M.2 Card slots (one for WLAN, one for SSD)

### Audio support

- Dual 4W speakers, 2 omnidirectional microphones for 360 degree audio capture

### WLAN13

- 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

### 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 CBB X64 (RS3)
- **Preloaded applications** Microsoft Skype Room Systems App

### Certification

- Skype for Business Group Certified

### Environment

- ErP Lot 26, GREENGUARD® certified, RoHS, WEEE

### Accessories

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

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© Lenovo (Hub500-Spec) March 2018
**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**
- Viewing angle: Top / Side: 2mm, Bottom: 16.3mm
- Viewable image size: 18.74" x 10.54" / 476.06mm x 267.79mm
- Bezel Width: 250 nits or cd/m² (typical)

**Optimum Resolution** 1920x1080
**Aspect ratio** 16:9
**Pixel pitch (mm)** 0.24795mm
**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 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)
- 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 / 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 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 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/C1, 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 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](http://www.lenovoquickpick.com)

**ThinkCentre Tiny-in-One 22 Compatible list**

<table>
<thead>
<tr>
<th>Model</th>
<th>M900 Tiny, M700 Tiny, M600 Tiny, M93/p Tiny, M83 Tiny, M53 Tiny</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn on TIO and Tiny together via Alt + P on USB KB</td>
<td>All models</td>
</tr>
<tr>
<td>Turn on TIO and Tiny together via TIO Power Button</td>
<td>All models</td>
</tr>
</tbody>
</table>

**ThinkCentre TIO 22 (Monitor)**

<table>
<thead>
<tr>
<th>Model</th>
<th>M900 Tiny, M700 Tiny, M600 Tiny, M93/p Tiny, M73 Tiny, Chromebox</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn on TIO and Tiny together via Alt + P on USB KB</td>
<td>All models</td>
</tr>
</tbody>
</table>

**Ergonomics**
- VESA DDC2B/CI, VESA DPMS-compliant

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

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

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See footnotes for more detailed information
ThinkCentre Tiny-in-One (TIO) 22 Gen3

Product Specifications Reference (PSREF)
Lenovo, July 2017

Model
Non-touch model: 10R1PAR1++/10R1PAT1++;
Touch model: 10R0PAR1++/10R0PAT1++

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:
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, PLS, and IPS panels

Viewable image size
21.5" (546.1mm) diagonal
Max view area (W x H) 18.74" x 10.54" / 476.1mm x 267.8mm
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) 0.24795mm

Dot/Pixel per inch 102.4 dpi

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 178° (+/- 89°) horizontal, 178° (+/- 89°) vertical

Preset resolutions
640x480 @ 60Hz, 66Hz, 72Hz, 75Hz
720x400 @ 70Hz
800x600 @ 60Hz, 66Hz, 72Hz, 75Hz
1024x768 @ 60Hz, 72Hz, 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
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

Tinny-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)
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 (TIO)
Side ports offered by installed Tiny (optional)

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

Camera
720p camera with dual microphone for VOIP, LED indicator

Internal Speaker
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) 19.26 x 2.85 x 13.35
19.26 x 10.76 x 14.59 - 18.93

Weight (Approx.)
7.01 lb / 3.19 kg
11.77 lb / 5.34 kg

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

VESA-compliant
VESA DC2B/C, VESA DPMS-compliant

Ergonomics
ISO 9241-307, TUE Eye Comfort certified

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 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

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

ThinkCentre Tiny-in-One 22 Gen3 Compatible list

<table>
<thead>
<tr>
<th>Model</th>
<th>Power Button</th>
<th>TIO</th>
<th>Tiny</th>
<th>Chromebox</th>
</tr>
</thead>
<tbody>
<tr>
<td>M910 / M710 / M900 / M700 / M600 / M715 / M83 / M53 Tiny</td>
<td>All models</td>
<td>All models</td>
<td>Not support</td>
<td></td>
</tr>
<tr>
<td>M93/p Tiny, M73 Tiny</td>
<td>All models</td>
<td>All models</td>
<td>All models</td>
<td></td>
</tr>
</tbody>
</table>
ThinkCentre Tiny-in-One (TIO) 24

Product Specifications Reference (PSREF)

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: 72%
- Pixel response time: 7ms
- Color gamut: 72%
- Anti-reflective: 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)
- 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
- 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 x1

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: 21.24 x 2.7 x 13.64
  - TIO 24 with stand: 21.24 x 9.90 x 15.16 - 19.46
  - W x D x H (mm): 539.6 x 68.2 x 346.45
  - 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 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:
- 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:
- EPEAT Gold rating, ULE Gold, TUV, VOC
- TCO 7.0, TCO Edge 2.0, WEEE, RoHS, ENERGY STAR® 7.0

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.lenovouspick.com

ThinkCentre Tiny-in-One 24 Compatible list

<table>
<thead>
<tr>
<th>Model</th>
<th>M900 Tiny</th>
<th>M700 Tiny</th>
<th>M600 Tiny</th>
<th>M93/p Tiny</th>
<th>M73 Tiny</th>
<th>Chromebox</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn on TIO and Tiny</td>
<td>All models</td>
<td>All models</td>
<td>All models</td>
<td>All models</td>
<td>Not support</td>
<td></td>
</tr>
<tr>
<td>together via Alt + P</td>
<td>All models</td>
<td>All models</td>
<td>All models</td>
<td>All models</td>
<td>Not support</td>
<td></td>
</tr>
<tr>
<td>on USB KB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turn on TIO and Tiny</td>
<td>All models</td>
<td>TIO models</td>
<td>All models</td>
<td>All models</td>
<td></td>
<td></td>
</tr>
<tr>
<td>together via TIO</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Button</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

See footnotes for more detailed information © Lenovo (TIO24) Juen 2016
ThinkCentre Tiny-in-One (TIO) 24 Gen3

Product Specifications Reference (PSREF)

Lenovo, July 2017

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

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 and LCD 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: 2.2mm; Bottom: 21.2mm

Native resolution
1920x1080

Multi-touch
Optional 10-point multi-touch, supports Wake on Touch

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
14ms (default), over drive to 4ms, 6ms

Color gamut
72%

Anti-reflective
Anti-glare

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

Preset resolutions
640x350 @ 70Hz
640x480 @ 60Hz, 67Hz, 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, 72Hz, 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
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 dual microphone for VOIP, LED indicator

Internal Speaker
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
W x D x H (inch) 21.25 x 2.85 x 14.47
W x D x H (mm) 539.8 x 72.5 x 367.6
Weight (Approx.) 7.96 lb /3.61 kg

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

Emission standards
ISO 9241-307, TUV Eye Comfort certified

Environmental
TCO 7.0, TCO Edge 2.0, WEEE, RoHS, ENERGY STAR® 7.0,
EPEAT™ Gold rating, ULE Gold, TUF, 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

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

ThinkCentre Tiny-in-One 24 Gen3 Compatible list

<table>
<thead>
<tr>
<th>Model</th>
<th>M910 / M710 / M900 / M700 / M600 / M715 / M83 / M53 Tiny</th>
<th>M93p Tiny, M73 Tiny</th>
<th>Chromebox</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn on TIO and Tiny together via Alt + P on USB KB</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>

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

EPEAT
Gold rating, ULE Gold, TUV, VOC

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

ENERGY STAR
ENERGY STAR certified

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

EPEAT
Gold 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

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

Lenovo, July 2017
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 ThinkStation 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
Dot/Pixel per Inch
109 dpi
Brightness
350 nits or cd/m² (typical)
Contrast ratio
1000:1 (typical)
Aspect ratio
16:9
Pixel pitch (mm)
0.2331mm
Pixel response time
14ms (default), over drive to 4ms, 6ms
Color gamut
99% sRGB
Anti-glare
Yes (25%)
Cameras
RGBIR camera with dual microphone, supports Window Hello and Facial Recognition
Camera
800x600 @ 60Hz, 720x400 @ 70Hz
Preset resolutions
640x480 @ 60Hz, 720x400 @ 70Hz, 1024x768 @ 60Hz, 72Hz, 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
Preset settings
Preset: 27; user settings: 25
On screen display
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)
Side ports (TIO)
Two USB 3.1 Gen1 (downgrade to USB 2.0 when installing M73 or M53 or connecting USB 2.0 via USB upstream port), one headphone / microphone combo jack
Notes: The USB ports are enabled by installing a Tiny or connecting USB upstream port; the audio port is enabled by installing a Tiny or connecting USB upstream, DisplayPort(in), or HDMI(in) port
Side ports (Tiny)
Side ports offered by the installed Tiny (optional)
Rear ports
One DisplayPort(in) port, one HDMI(in) port, one USB (Type-B) upstream port, one power connector
3-in-1 Cable
Undetachable 3-in-1 cable, connecting to the power connector, one USB, and one DisplayPort of the installed Tiny (optional)
Camera
RGBIR camera with dual microphone, supports Window Hello and Facial Recognition, Think Shutter for Privacy Security, LED indicator
Internal Speaker
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: 614.0 x 73.89 x 413.1
TIO with stand: 614.0 x 329.0 x 444.25 - 554.25
Weight (Approx.)
4.91 kg / 10.82 lb
Mounting features
Wall or desk mounting using the extend arm or third-party accessories meeting the VESA FPPMFI (100mm mount)
Adjustable stand
Tilt: 33° back, -5° forward;
Swivel: +/-45°;
Pivot: clockwise -5° to 90°
Power supply
170 watts adapter, 88% PSU, universal
Power consumption
37 watts typical, 57 watts maximum, <0.5 watts standby / suspend
Limited warranty
3-years, Product Exchange Service (US and EMEA) or Customer Carry-In Service (EMEA)
Accessories
For compatible accessories, please go to http://smartfind.lenovo.com

ThinkCentre Tiny-in-One 27 Compatible Matrix

<table>
<thead>
<tr>
<th>Model</th>
<th>M93/p Tiny</th>
<th>Chromebox</th>
</tr>
</thead>
<tbody>
<tr>
<td>P320 / P330</td>
<td>M920(x) / M720 / M910(x) / M710 / M900(x) / M700 / M600 / M715 / M83 / M53 Tiny</td>
<td></td>
</tr>
<tr>
<td>Turn on TIO and Tiny together via Alt + P on USB KB</td>
<td>All models</td>
<td>All models</td>
</tr>
<tr>
<td>Turn on TIO and Tiny together via TIO Power Button</td>
<td>All models</td>
<td>TIO models</td>
</tr>
</tbody>
</table>

Notes:
- 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
- TIO Power Button
- TIO together via
- Turn on TIO and
- Tiny together via
- TIO Power Button
- All models
- TIO models
- All models
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