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Summary of Changes

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

June 2019 - Version 544

Additions in this update
► New product(s)
  None
► New model(s)
  None
► Others
  Update ThinkCentre M920x Tiny with 9 Gen processors
  Update ThinkCentre M920 Tiny with 9 Gen processors
  Update ThinkCentre M920 Tower with 9 Gen processors
  Update ThinkCentre M920 SFF with 9 Gen processors
  Update ThinkCentre M720 Tiny with 9 Gen processors
  Update ThinkCentre M720 Tower with 9 Gen processors
  Update ThinkCentre M720 SFF with 9 Gen processors
  Update ThinkCentre M920z AIO with 9 Gen processors
  Update ThinkCentre M820z AIO with 9 Gen processors

Withdrawals in this update
► Withdrawn product(s)
  None
► Withdrawn model(s)
  None
## ThinkCentre M810z Platform Specifications

### Processor

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</tbody>
</table>

### Memory

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

* System clocks down for the processors with lower memory controller

### Storage

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

### Optical

| Some: | DVD±R/±RW, HD DVD±R/±RW, HD DVD-RAM drive, 32x write speed |

### Media reader

Optional 9-in-1 media card reader

### Graphics

Intel HD Graphics 510/530/610/630 in processor, uses main memory, DirectX™ 12, external monitor support via DisplayPort™

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

### 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 Camera

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

### Controls

Physical buttons for Microphone mute, brightness up/down, and power on/off

### Chipset

Intel B250 Chipset

### Rear ports

Four USB 3.1 Gen1, ethernet (RJ-45), 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)

### M.2 card slot

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

### 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) |
| Some: | 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band) |
| Some: | 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 2165, 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

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

### Ethernet

Gigabit ethernet, Realtek RTL8111G, Wake on LAN™

### Manageability

None

### Security chip

TPM (Trusted Platform Module) 2.0, TCG Certified

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

### Security features

- Security slot (in rear for 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

### Mechanical

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

### Dimensions (WxDxH)

| Without stand: | 21.1 X 1.8 X 14.3 (inch): |
| Non-touch | 535 X 45 X 363 (mm): |

### Weight (lb / kg)

| Without Basic Monitor stand: | 21.1 X 9.6 X 17.0 (inch): |
| Non-touch | 535 X 245 X 431 (mm): |

### Adjustments

Tilt: 45° back, -5° forward

### 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

### Preload

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

Preloaded applications (only some listed)
- Microsoft Office preloaded;
- purchase a product key to activate
- - Only for Windows 10
- Lenovo Companion
- - Only for Windows 7
- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- ThinkVantage System Update
- Create Recovery Media
- Adobe® Reader®
- Cyberlink PowerDVD Create (DVD±RW)

### Environment

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

### MIL-SPEC test

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

### Accessories

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

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See footnotes for more detailed information © Lenovo (M810z-Spec) February 2017
## ThinkCentre M820z Platform Specifications

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### Memory
- 32GB max (16GB SO-DIMM only available via special bid models), DDR4-2666*, two 260-pin SO-DIMM sockets, dual-channel capable
- * System clocks down for the processors with lower memory controller

### Storage
- Some: Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
- Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
- Some: 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s
- 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)
- Optional 3-in-1 media card reader

### Graphics
- Intel HD Graphics 610/630 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort®
- Max resolution: 4096x2304 (DP) @60Hz, 1920x1080 (Panel) @60Hz

### Display
- 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

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

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

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

### Chipset
- Intel B360 Chipset
- Rear ports*: Four USB 3.1 Gen1 (one supports Smart Power On), one ethernet (RJ-45), one DisplayPort, one optional serial (9-pin), one USB 3.1 Type-C Gen 1, one optional card reader, one headphone / microphone combo jack (3.5mm)
- * Depending on many factors, actual data transfer speed may be lower than theoretical speed
- M.2 card slot: Two M.2 Card slots (one for WLAN, one for SSD/Optane)
- Audio support: High Definition (HD) Audio, Realtek ALC2323 / two internal speakers (2W x 2), Dolby® Audio™ Premium

### WLAN
- Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
- Some: Bluetooth 4.2/5.0 wireless, integrated in Wi-Fi + BT combo adapter

### Ethernet
- Gigabit ethernet, Realtek RTL8111G, Wake on LAN

### Manageability
- None

### Security chip
- None
- Security features:
  - Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
  - Boot sequence control
  - Boot without keyboard and mouse
  - Smart USB protection, allows keyboard/mouse only, blocks all storage devices
  - Individual USB port disablement
  - Optional Chassis intrusion switch

### Keyboard
- Some: Lenovo Calliope Keyboard (USB connector), black
- Some: Lenovo Traditional Keyboard (USB connector), black
- Note: Without keyboard, one headphone / microphone combo jack (3.5mm)

### Mouse
- Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
- Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black
- Note: With UltraFlex III stand (No camera)

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

### Dimensions (WxDxH)
- Without stand (No camera):
  - 19.3 X 9.9 X 13.5 (inch)
  - 491 X 249 X 342 (mm)
- With Full Function Monitor Stand (No camera):
  - 19.3 X 9.9 X 14.8 to 19.1 (inch)
  - 491 X 252 X 377 to 486 (mm)
- With UltraFlex III stand (No camera):
  - 19.3 X 9.9 X 16.4 (highest) (inch)
  - 491 X 252 X 416 (highest) (mm)

### Power supply
- 150 watts, autosensing, 90% PSU

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

### Preload
- Preloaded operating system
  - Some: Windows 10 Pro 64-bit
  - Some: Microsoft Office preload; purchase a product key to activate
  - Cyberlink PowerDVD (only for models with DVD / DVD+RW)
  - Cyberlink Power2GO (only for models with DVD±RW)
  - LinkedIn

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

### 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, TUV Ultra Low Noise certified, GREENGUARD Gold certified, RoHS-compliant

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

Note: The specifications above may not be available in all regions.
ThinkCentre M910z Platform Specifications

Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Celeron®, Intel Pentium®, or 6th / 7th Gen Intel Core™ i3 / i5 / i7 Processor</th>
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</thead>
</table>

Memory

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

Storage

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

Optical

- Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2
- Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.5mm)

Audio

- Some: Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter
- Some: HD 530
- Some: Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Display

- Some: 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)
- Some: Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch
- Some: Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch
- Some: Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch
- Some: Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Graphics

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

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

Preload

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

Environment

- EPEAT™ Gold rating (North America); ENERGY STAR® 6.1; TCO AIo Computer Certified; ULE Gold; E²P Lot 3; GREENGUARD® certified; RoHS-compliant

MIL-SPEC test

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

Accessories

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

See footnotes for more detailed information © Lenovo (M910z-Spec) February 2017
Product Specifications Reference (PSREF)

ThinkCentre M920z

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 8th / 9th Gen Intel Core™ i3 / i5 / i7 / i9 series</td>
<td>2 / 4</td>
<td>3.1G</td>
<td>2 MB</td>
<td>DDR4-2400</td>
<td>UHD 610</td>
</tr>
<tr>
<td>Intel® Celeron® G4900</td>
<td>2 / 2</td>
<td>3.1G</td>
<td>2 MB</td>
<td>DDR4-2400</td>
<td>UHD 610</td>
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<tr>
<td>Intel® Celeron® G4920</td>
<td>2 / 2</td>
<td>3.2G</td>
<td>2 MB</td>
<td>DDR4-2400</td>
<td>UHD 610</td>
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<tr>
<td>Intel® Celeron® G4930</td>
<td>2 / 2</td>
<td>3.2G</td>
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<td>DDR4-2400</td>
<td>UHD 610</td>
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<tr>
<td>Intel® Celeron® G4950</td>
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<td>3.2G</td>
<td>2 MB</td>
<td>DDR4-2400</td>
<td>UHD 610</td>
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<tr>
<td>Pentium® Gold G5400</td>
<td>2 / 4</td>
<td>3.7G</td>
<td>4 MB</td>
<td>DDR4-2400</td>
<td>UHD 610</td>
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<tr>
<td>Pentium® Gold G5420</td>
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<td>3.8G</td>
<td>4 MB</td>
<td>DDR4-2400</td>
<td>UHD 610</td>
</tr>
<tr>
<td>Pentium® Gold G5600</td>
<td>2 / 4</td>
<td>3.8G</td>
<td>4 MB</td>
<td>DDR4-2400</td>
<td>UHD 610</td>
</tr>
<tr>
<td>Pentium® Gold G5620</td>
<td>2 / 4</td>
<td>4.0G</td>
<td>4 MB</td>
<td>DDR4-2400</td>
<td>UHD 610</td>
</tr>
<tr>
<td>Core i3-8100</td>
<td>4 / 4</td>
<td>3.6G</td>
<td>6 MB</td>
<td>DDR4-2400</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Core i3-8300</td>
<td>4 / 4</td>
<td>3.7G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Core i5-8400</td>
<td>6 / 6</td>
<td>2.8G / 4.0G</td>
<td>9 MB</td>
<td>DDR4-2666</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Core i5-8600</td>
<td>6 / 6</td>
<td>3.0G / 4.1G</td>
<td>9 MB</td>
<td>DDR4-2666</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Core i7-8700</td>
<td>4 / 4</td>
<td>3.6G / 4.2G</td>
<td>6 MB</td>
<td>DDR4-2400</td>
<td>UHD 630</td>
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<tr>
<td>Core i3-9300</td>
<td>4 / 4</td>
<td>3.7G / 4.3G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Core i5-9400</td>
<td>6 / 6</td>
<td>2.9G / 4.1G</td>
<td>9 MB</td>
<td>DDR4-2666</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Core i5-9500</td>
<td>6 / 6</td>
<td>3.0G / 4.1G</td>
<td>9 MB</td>
<td>DDR4-2666</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Core i5-9600</td>
<td>6 / 6</td>
<td>3.1G / 4.6G</td>
<td>9 MB</td>
<td>DDR4-2666</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Core i7-9700</td>
<td>8 / 8</td>
<td>3.0G / 4.7G</td>
<td>12 MB</td>
<td>DDR4-2666</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Core i9-9900</td>
<td>8 / 16</td>
<td>3.1G / 5.0G</td>
<td>16 MB</td>
<td>DDR4-2666</td>
<td>UHD 630</td>
</tr>
</tbody>
</table>

Audio support

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

WLAN

<table>
<thead>
<tr>
<th>WLAN</th>
<th>Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2</td>
<td></td>
</tr>
<tr>
<td>Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1</td>
<td></td>
</tr>
<tr>
<td>Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2</td>
<td></td>
</tr>
<tr>
<td>Some: Intel® Wi-Fi 6E Wireless, Intel Wireless-AX200, Wi-Fi + Bluetooth 5.0 combo adapter, Intel vPro technology support, 2x2</td>
<td></td>
</tr>
<tr>
<td>Some: Bluetooth 4.2/5.0 wireless, integrated in Wi-Fi + BT combo adapter</td>
<td></td>
</tr>
</tbody>
</table>

BlueTooth™

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

Manageability

| Manageability | 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) |

Security chip

| Security features | Security slot (in rear for attachment of optional Kensington® MicroSaver® cable), Boot sequence control, Kensington lock also locks chassis, Individual USB port disablement, Optional Chassis intrusion switch |

Security features

| Security features | Power-on, admin, hard disk password protection, 256-bit encryption, Smart USB protection, allows keyboard/ mouse only, blocks all storage devices, Boot without keyboard and mouse, USB flash memory write protection, Individual USB port disablement, Optional Chassis intrusion switch |

Keyboard

| Keyboard | Lenovo Calliope Keyboard (USB connector), Lenovo Traditional Keyboard (USB connector), Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), Lenovo Calliope Mouse (USB connector), Lenovo Fingerprint Mouse (USB connector), Windows Hello support, Lenovo Calliope Mouse Wireless (2.4GHz via USB receiver), backlit keyboard and mouse, Intel vPro technology, Intel AMT 12.0, Intel vPro hardware主要用于在没有键盘和鼠标的情况下使用 |

Mouse

| Mouse | Lenovo Fingerprint Mouse (USB connector) |

Memory

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

Storage

<table>
<thead>
<tr>
<th>Storage</th>
<th>System clocks down for the processors with lower memory controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>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)</td>
<td></td>
</tr>
<tr>
<td>Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5</td>
<td></td>
</tr>
<tr>
<td>Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 16Gb/s</td>
<td></td>
</tr>
<tr>
<td>* 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s</td>
<td></td>
</tr>
<tr>
<td>Some: Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2</td>
<td></td>
</tr>
<tr>
<td>Some: DVD-ROM SATA 1.5Gb/Drive, slim (9.0mm)</td>
<td></td>
</tr>
<tr>
<td>Some: DVD Burner (DVD+RW), SATA 1.5Gb/Drive, slim (9.0mm)</td>
<td></td>
</tr>
<tr>
<td>Optional 3-in-1 media card reader</td>
<td></td>
</tr>
</tbody>
</table>

Graphics

<table>
<thead>
<tr>
<th>Graphics</th>
<th>Intel HD Graphics 610/630 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™; Max resolution: 4096x2304 (DP) @ 60Hz, 1920x1080 (Panel) @ 60Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display</td>
<td>22.3&quot; (564.5mm) Full HD 1080p (1920x1080)</td>
</tr>
</tbody>
</table>

Multi-touch

<table>
<thead>
<tr>
<th>Multi-touch Camera</th>
<th>Optional multi-touch, supports 10-point, AIT (Advanced In-Cell Touch) technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Some: 1080p camera, with dual microphone, LED indicator, physical switch on/off, supports multi-direction (horizontal 0° to 180°, vertical -25° to 25°)</td>
<td></td>
</tr>
<tr>
<td>Some: RGBIR camera, 1080p, with dual microphone, physical switch on/off, supports multi-direction (horizontal 0° to 180°, vertical -25° to 25°)</td>
<td></td>
</tr>
<tr>
<td>Windows Hello support, only available via special bid models</td>
<td></td>
</tr>
</tbody>
</table>

Controls

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

Chipset

| Chipset | Intel Q370 Chipset |

Chipset

| Chipset | Intel Q370 Chipset |

Rear ports

| Rear ports* | Four USB 3.1 Gen1, one always on and fast charge, one USB 3.1 Gen1, one Type-C Gen 1, one security card reader, one headphone / microphone combo jack (3.5mm) |

Side ports

| Side ports* | Two M.2 Card slots (for WLAN, one for SSD/Optane) |

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

**Product Specifications Reference (PSREF)**

See footnotes for more detailed information.

**Processor**

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency (Base/MAX)</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel Celeron N3050</td>
<td>2 / 2</td>
<td>1.6 / 2.16 GHz</td>
<td>2MB</td>
<td>DDR3L-1600</td>
<td>Intel HD</td>
</tr>
<tr>
<td>Intel Celeron J3060</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>Intel 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 Pentium J3710</td>
<td>4 / 4</td>
<td>1.6 / 2.48 GHz</td>
<td>2MB</td>
<td>DDR3L-1600</td>
<td>Intel HD 405</td>
</tr>
</tbody>
</table>

**Chipset**

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

**Graphics**

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

**Monitor cable**

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

**Memory**

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

**Storage**

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

**Optical**

- Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
- 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), one or two specific USB (on some models), 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

**Environmental**

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

**Security**

- None

**Security features**

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

**Keyboard**

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

**Mouse**

- Some: Ultrasonic Plus Wireless Mouse (2.4GHz via USB receiver), black

**Mechanical**

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

**Dimensions (WxDxH)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions (WxDxH)</th>
<th>Max weight (lb / kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M600 Tiny only</td>
<td>179mm X 182.9mm X 34.5mm</td>
<td>2.9 lb (1.3 kg)</td>
</tr>
<tr>
<td>M600 Tiny (1L) with VESA mount &amp; ODD box</td>
<td>188.4mm X 185.38mm X 63mm</td>
<td>4.12 lb (1.87 kg)</td>
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<tr>
<td>M600 Tiny (1L) with VESA mount &amp; i/o box</td>
<td>188.4mm X 185.38mm X 66.6mm</td>
<td>3.53 lb (1.6 kg)</td>
</tr>
</tbody>
</table>

**Power supply**

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

**Limited warranty**

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

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

**Preload**

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

**Preloaded applications (only some listed)**

- Desktop Power Manager
- Lenovo Solution Center
- Lenovo REACH-it
- Lenovo SHAREit
- Lenovo Bluetooth Lock
- McAfee® LiveSafe® (30-day trial)
- Microsoft Office preloaded: purchase a product key to activate
- PowerDVD Create (DVD±RW)
- Lenovo ThinkVantage Tools - Only for Window 10
- Lenovo Companion (Win10)
- CyberLink PowerDVD (DVD, DVD±RW)
- Lenovo QuickOptimizer - Only for Window 7
- Rescue and Recovery
- Password Manager
- ThinkVantage System Update
- Lenovo Message Center Plus
- Adobe® Reader®

**Environment**

**Accessories**

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

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</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.

**Monitor cable**

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

**Memory**

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

**Storage**

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

**Onboard SATA**

SATA 6.0 Gb/s controller, one connectors on planar.

**Audio support**

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

**WLAN**

Some: 11ac wireless, M.2 Card, Realtek RTL8821AE (dual band), Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1 (only for 4L models)
Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter
One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

**Ethernet**

None

**Manageability**

None

**Security features**

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

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

**Chassis intrusion switch**

Not available in all regions.

**Limited warranty**

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

**Power supply**

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

**Dimensions (WxDxH)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions (WxDxH)</th>
<th>Max weight (lb / kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M600 Tiny only (1L)</td>
<td>7.05” X 7.20” X 1.36”</td>
<td>2.9 lb (1.3 kg)</td>
</tr>
<tr>
<td>M600 Tiny only (2L)</td>
<td>7.05” X 7.20” X 3.15”</td>
<td>4.2 lb (1.9 kg)</td>
</tr>
</tbody>
</table>

**Floor Stand**

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

**Preload**

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

**Environment**

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

**Accessories**

For compatible accessories, please go to TC-AQP sheet

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

Lenovo, November 2017
<table>
<thead>
<tr>
<th>Processor</th>
<th>AMD A9 series APU</th>
</tr>
</thead>
<tbody>
<tr>
<td>APU</td>
<td>Cores</td>
</tr>
<tr>
<td>A9-9420e</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Memory</th>
<th>8GB max, DDR4-2666, one 260-pin SO-DIMM socket</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>* System frequency automatically clocks down for the lower capability of memory controller in processor</td>
</tr>
</tbody>
</table>

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

| Optical Onboard SATA Media reader | None |
|                                  | 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 |

| 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) |
|             | 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 |

| Rear ports* | None |

| I/O box | High Definition (HD) Audio, Realtek ALC233-VB2-CG/ internal speaker (1.5 watt) |

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

| WLAN™ | Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 2x2 |
|       | 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 RTL8111HN, Wake on LAN* |

| Manageability | None |

| Security chip Security features | None |
|                                 | • 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 |

| Mechanical | Tiny (1L), black color; metal case |
|           | • Toolless chassis open (for models with option toolless chassis screw) |
|           | • Toolless HDD, SSD, memory, Wi-Fi removal |
|           | • Optional dust filter M625 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 |
|           | 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 10 Pro 64-bit |
|         | Some: Windows 7 Professional 64 |

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

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


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

Lenovo, May 2018
## ThinkCentre M625 Tiny Thin Client Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>AMD E2 series APU</th>
<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>
<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: 32GB M.2 Solid State Drive (SSD) / SATA interface
- Some: 128GB M.2 Solid State Drive (SSD) / PCIe NVMe interface
- None
- one SATA 6.0Gb/s connector on planar

### Optical Onboard SATA Media reader

None

### Graphics

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

###chipset

- **AMD SoC platform**

### 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

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

### Bluetooth™

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

### Ethernet Modem

- Gigabit ethernet, Realtek RTL8111H, Wake on LAN

### Manageability

- None

### Security chip

- 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

### Security features

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

### 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
- 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
### ThinkCentre M630e Tiny Platform Specifications

<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Pentium®, or 8th Generation Intel Core™ i3 / i5 Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Processor</td>
</tr>
<tr>
<td></td>
<td>Pentium Gold 5405U</td>
</tr>
<tr>
<td></td>
<td>Core i3-8145U</td>
</tr>
<tr>
<td></td>
<td>Core i5-8265U</td>
</tr>
</tbody>
</table>

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

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

| 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 |

| Onboard SATA | One onboard SATA 6.0Gb/s connector |

| 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 |

| Monitor cable | Optional DP to VGA dongle or DP to HDMI 1.4 dongle |

| 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 RTL8111H-NC |
| Ethernet (Opt.) | None |

<table>
<thead>
<tr>
<th>Manageability</th>
<th>Security chip</th>
</tr>
</thead>
<tbody>
<tr>
<td>Security features</td>
<td>None</td>
</tr>
<tr>
<td>Firmware TPM 2.0, integrated in chipset</td>
<td></td>
</tr>
<tr>
<td>Security slot (in rear for optional Kensington® MicroSaver® cable)</td>
<td></td>
</tr>
<tr>
<td>Chassis intrusion switch</td>
<td></td>
</tr>
<tr>
<td>Power-on password</td>
<td></td>
</tr>
<tr>
<td>Administrator password</td>
<td></td>
</tr>
<tr>
<td>Hard disk password</td>
<td></td>
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<tr>
<td>Boot sequence control</td>
<td></td>
</tr>
<tr>
<td>Boot without keyboard and mouse</td>
<td></td>
</tr>
<tr>
<td>Individual USB port disablement</td>
<td></td>
</tr>
<tr>
<td>Smart USB protection, allows keyboard/ mouse only, blocks all storage devices</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Keyboard</th>
<th>Mouse</th>
</tr>
</thead>
<tbody>
<tr>
<td>Some: Lenovo Calliope Keyboard (USB connector), black</td>
<td></td>
</tr>
<tr>
<td>Some: Lenovo Calliope Mouse (USB connector), black</td>
<td></td>
</tr>
</tbody>
</table>

| 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) |

<table>
<thead>
<tr>
<th>Dimensions (WxDxH)</th>
<th>Weight (Approx.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tiny only</td>
<td>7.05&quot; X 7.20&quot; X 1.36&quot;</td>
</tr>
<tr>
<td></td>
<td>179mm X 182.9mm X 34.5mm</td>
</tr>
<tr>
<td></td>
<td>2.91 lb (1.32 kg), vary by config</td>
</tr>
</tbody>
</table>

| 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 |

<table>
<thead>
<tr>
<th>Preload</th>
<th>Preloaded operating system</th>
</tr>
</thead>
<tbody>
<tr>
<td>Some: Windows® 10 Pro 64-bit</td>
<td></td>
</tr>
<tr>
<td>Some: Windows 10 Home 64-bit</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Preloaded applications (only some listed)</th>
<th>Lenovo Vantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lenovo Vantage</td>
<td>LinkedIn</td>
</tr>
<tr>
<td>Microsoft Office preloaded; purchase a product key to activate</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environment</th>
<th>ENERGY STAR® 7.0, ErP Lot 3, TCO, RoHS-compliant, WEEE, REACH</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>MIL-SPEC test</th>
<th>Coming soon</th>
</tr>
</thead>
</table>

| 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
ThinkCentre M710 SFF Specification

Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency Base/Max/(GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentium G4400</td>
<td>2 / 2</td>
<td>3.6G</td>
<td>3 MB</td>
<td>DDR4-2133</td>
<td>HD 510</td>
</tr>
<tr>
<td>Pentium G4560</td>
<td>2 / 4</td>
<td>3.5G</td>
<td>3 MB</td>
<td>DDR4-2133</td>
<td>HD 510</td>
</tr>
<tr>
<td>Pentium G4600</td>
<td>2 / 4</td>
<td>3.6G</td>
<td>3 MB</td>
<td>DDR4-2133</td>
<td>HD 510</td>
</tr>
<tr>
<td>Core i3-6100</td>
<td>2 / 4</td>
<td>3.7G</td>
<td>3 MB</td>
<td>DDR4-2133</td>
<td>HD 510</td>
</tr>
<tr>
<td>Core i5-6500</td>
<td>4 / 8</td>
<td>3.2G / 3.6G</td>
<td>8 MB</td>
<td>DDR4-2133</td>
<td>HD 510</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 510</td>
</tr>
<tr>
<td>Core i3-7100</td>
<td>2 / 4</td>
<td>3.9G</td>
<td>3 MB</td>
<td>DDR4-2133</td>
<td>HD 510</td>
</tr>
<tr>
<td>Core i5-7400</td>
<td>4 / 4</td>
<td>3.0G / 3.5G</td>
<td>6 MB</td>
<td>DDR4-2133</td>
<td>HD 510</td>
</tr>
<tr>
<td>Core i5-7500</td>
<td>4 / 4</td>
<td>3.4G / 3.8G</td>
<td>6 MB</td>
<td>DDR4-2133</td>
<td>HD 510</td>
</tr>
<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 510</td>
</tr>
</tbody>
</table>

Memory

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

Storage

- Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" or 3.5"
- Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

Optical

- Some: Intel Optane™ Memory (with 7th gen Core processor), M.2
- 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 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: 4906x2304 (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;

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*

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

Rear ports*

- Two USB 3.1 Gen1, two USB 2.0, optional two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, two PS/2 ports (keyboard/mouse), additional DisplayPort on optional graphics on some models
- Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

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™

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

Ethemet

- Gigabit ethernet, Realtek RTL8111GN, Wake on LAN

Modem

- None

Manageability

- TPM (Trusted Platform Module) 2.0, TCG Certified
- * Downgrade to TPM1.2 for the models with Win10 D6 Win7 32 OS

Security chip

- None

Security features

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

Keyboard

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

Mouse

- Some: Lenovo Calloppo Mouse USB (connector), black

Mechanical

- SFF (8.4L), black color; metal case
- (WinOx)/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
- Tasteeless cover, dock, optical removal
- Optional dust filter

Operational

- Bay 1: Slim external ODD bay
- Bay 2: 3.5", 1" high, internal, HDD/SSD
- Bay 3: 2.5", internal, HDD/SSD (optional bay)
- Slot 1: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x16
- Slot 2: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x1
- Slot 3: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x1
- Slot 4: no slot, only bracket for optional port expansion
- 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

Floor Stand

- 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)
- 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 Windows 7
- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- Create Recovery Media
- Adobe® Reader
- Cyberlink PowerDVD Create
- ENERGY STAR® 6.1, EPEAT™ Gold rating (North America), EEE Pot 3, GREENGUARD®, RoHS-compliant

TUV low noise verified (on some models)

ErP Lot 3, GREENGUARD

Certified

Lenovo, June 2017

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

Lenovo, June 2017
**ThinkCentre M710 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 G4400T</td>
<td>2 / 2</td>
<td>2.9G</td>
<td>3 MB</td>
<td>DDR4-2133</td>
<td>HD 510</td>
</tr>
<tr>
<td>Pentium G4560T</td>
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<td>2.9G</td>
<td>3 MB</td>
<td>DDR4-2400</td>
<td>HD 610</td>
</tr>
<tr>
<td>Pentium G4600T</td>
<td>2 / 4</td>
<td>3.0G</td>
<td>3 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
<tr>
<td>Core i3-6100T</td>
<td>2 / 4</td>
<td>3.2G</td>
<td>3 MB</td>
<td>DDR4-2133</td>
<td>HD 530</td>
</tr>
<tr>
<td>Core i5-6500T</td>
<td>4 / 8</td>
<td>2.5G / 3.1G</td>
<td>8 MB</td>
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<td>HD 530</td>
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<tr>
<td>Core i7-6700T</td>
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<tr>
<td>Core i3-7100T</td>
<td>2 / 4</td>
<td>3.4G</td>
<td>3 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
<tr>
<td>Core i5-7400T</td>
<td>4 / 4</td>
<td>2.4G / 3.0G</td>
<td>6 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
<tr>
<td>Core i5-7500T</td>
<td>4 / 4</td>
<td>2.7G / 3.3G</td>
<td>6 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
<tr>
<td>Core i5-7600T</td>
<td>4 / 4</td>
<td>2.8G / 3.7G</td>
<td>6 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
<tr>
<td>Core i7-7700T</td>
<td>4 / 8</td>
<td>2.9G / 3.8G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
</tbody>
</table>

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

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

**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
  - purchaser a product key to activate
  - Only for Window 10
  - Lenovo Companion
  - Only for Window 7
  - Lenovo Solution Center
  - Lenovo ThinkVantage Tools
  - Create Recovery Media
  - Adobe® Reader
  - 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.lenovoqueckpick.com](http://www.lenovoqueckpick.com)

See footnotes for more detailed information © Lenovo (M710 Tiny-Spec) February 2017
## ThinkCentre M710 Tower Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency Base/Max(GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel Pentium G4400</td>
<td>2 / 2</td>
<td>3.3G</td>
<td>3 MB</td>
<td>DDR4-2133</td>
<td>HD 510</td>
</tr>
<tr>
<td>Pentium G4560</td>
<td>2 / 4</td>
<td>3.5G</td>
<td>3 MB</td>
<td>DDR4-2400</td>
<td>HD 610</td>
</tr>
<tr>
<td>Pentium G4600</td>
<td>2 / 4</td>
<td>3.6G</td>
<td>3 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
<tr>
<td>Core i3-6100</td>
<td>2 / 4</td>
<td>3.7G</td>
<td>3 MB</td>
<td>DDR4-2133</td>
<td>HD 530</td>
</tr>
<tr>
<td>Core i5-6500</td>
<td>4 / 4</td>
<td>3.2G / 3.6G</td>
<td>6 MB</td>
<td>DDR4-2133</td>
<td>HD 530</td>
</tr>
<tr>
<td>Core i7-6700</td>
<td>4 / 8</td>
<td>3.4G / 4.0G</td>
<td>8 MB</td>
<td>DDR4-2133</td>
<td>HD 530</td>
</tr>
<tr>
<td>Core i3-7100</td>
<td>2 / 4</td>
<td>3.9G</td>
<td>3 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
<tr>
<td>Core i5-7400</td>
<td>4 / 4</td>
<td>3.0G / 3.5G</td>
<td>6 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
<tr>
<td>Core i5-7500</td>
<td>4 / 4</td>
<td>3.4G / 3.8G</td>
<td>6 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
<tr>
<td>Core i7-7700</td>
<td>4 / 8</td>
<td>3.6G / 4.2G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
</tbody>
</table>

### Memory

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

### Storage

- Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm.
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5".
- 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

<table>
<thead>
<tr>
<th>Graphics</th>
<th>DirectX 12, one VGA, two DisplayPort™, supports dual independent displays, works along with discrete graphics to support more displays;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max resolution</td>
<td>Max resolution</td>
</tr>
<tr>
<td>Some: NVIDIA GeForce® GT 730</td>
<td>4096x2304 (DP) @ 60Hz, 2048x1536 (VGA) @ 50Hz</td>
</tr>
<tr>
<td>Some: AMD Radeon™ R7 350</td>
<td>3840x2160 (DisplayPort) @ 60Hz</td>
</tr>
<tr>
<td>Some: NVIDIA GeForce® GT 730</td>
<td>4096x2160 (HDMI) @ 240Hz, 2048x1536 (VGA) @ 85Hz</td>
</tr>
<tr>
<td>Onboard SATA</td>
<td>Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4</td>
</tr>
</tbody>
</table>

### Monitor Cable

- Intel B250 Chipset.

### Front ports

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

### Rear ports

- Two USB 3.1 Gen1, two USB 2.0, optional two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, two PS/2 ports (keyboard/mouse).

### Rear audio ports

- Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm).

### 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 RTL8111G/EN, Wake on LAN®.

### Modem

- None.

### 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

- None.

### Mechanical

- Tower (15L), black color, metal case.
- Wi(Xy)D 5.7” X 11.5” X 14.4; 145mm X 292.7mm X 366mm.
- Approx. 14.3 lb (6.5 kg), weight may vary by configuration.
- Optional dust filter.
- Bay 1: Slim external ODD bay.
- Bay 2: 3.5”, 1” high, internal, HDD/SSD.
- Bay 3: 3.5”, 1” high, internal, HDD/SSD.
- Slot 1: half-length full-height (length < 189mm, height < 104mm), PCIe 3.0 x16*.
- Slot 2: half-length full-height (length < 189mm, height < 104mm), PCIe 3.0 x1*.
- Slot 3: half-length full-height (length < 189mm, height < 104mm), PCIe 3.0 x1*.
- Slot 4: no slot, only bracket for optional port expansion*.
- 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 occupies one expansion slot.

### Power supply

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

### Limited warranty

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

### Preload

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

- Preloaded applications (only some listed):
  - Microsoft Office preloaded.
  - 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](http://www.lenovoquickpick.com).

### Note

- The specifications above may not be available in all regions.

Lenovo, June 2017
ThinkCentre M710e SFF Platform Specifications

Product Specifications Reference (PSREF)

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 6/7th Generation Intel Core™ i3 / i5 / i7 Processor</td>
<td>2 / 4</td>
<td>1.1GHz / 2.7GHz</td>
<td>2 MB DDR4-2400 HD 500</td>
<td>Optional external USB to PS/2 ports cable (for PS/2 keyboard / mouse); additional DisplayPort on optional graphics on some models</td>
<td>Optional rear 2x USB2.0 / parallel occupies one expansion slot</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

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)
- Onboard SATA: Two onboard SATA 6.0Gb/s connectors
- Optical: 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 x 8 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 RTL8111H, Wake on LAN®

Modem

- None

Manageability

- None

Security chip

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

Power supply

- Some: 180 watts, autosensing, 85% PSU

Limited warranty

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

Environment

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

Accessories

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

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

Lenovo, January 2018
# ThinkCentre M715 SFF Platform Specifications

## Processor

<table>
<thead>
<tr>
<th></th>
<th>AMD A6 / A8 / A10 / A12 series APU and Ryzen 3 / 5 / 7 series processor</th>
</tr>
</thead>
<tbody>
<tr>
<td>APU / processor</td>
<td>Cores / Threads</td>
</tr>
<tr>
<td>Ryzen 3 PRO 1200</td>
<td>4 / 4</td>
</tr>
<tr>
<td>Ryzen 3 PRO 1300</td>
<td>4 / 4</td>
</tr>
<tr>
<td>Ryzen 5 PRO 1500</td>
<td>4 / 8</td>
</tr>
<tr>
<td>Ryzen 7 PRO 1700</td>
<td>8 /16</td>
</tr>
<tr>
<td>PRO A8-8750</td>
<td>2 / 2</td>
</tr>
<tr>
<td>PRO A10-8770</td>
<td>4 / 4</td>
</tr>
<tr>
<td>PRO A12-8870</td>
<td>4 / 4</td>
</tr>
<tr>
<td>PRO A6-9500</td>
<td>2 / 2</td>
</tr>
<tr>
<td>PRO A8-9600</td>
<td>4 / 4</td>
</tr>
<tr>
<td>PRO A10-9700</td>
<td>4 / 4</td>
</tr>
<tr>
<td>PRO A12-9800</td>
<td>4 / 4</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 speed

## Storage

- 3.5/3.7, 2MB
- Some: 3.1/3.4, 2MB
- None

## Optical

- Some: DVD Burner (DVD+RW), SATA 1.5Gb/s Drive, slim (9.0mm)
- Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)
- Optional: SATA 6.0Gb/s connectors
- Onboard SATA Media reader: Optional 7-in-1 media reader

## Graphics

- AMD Radeon™ Graphics (not for AMD Ryzen processor), supports DirectX® 12, one VGA, two DisplayPort™ connectors (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
  - NVIDIA GeForce® GT 730, DirectX 12, 2GB, PCIe 2.0 x8 adapter, two DisplayPort, 35 watts

## Monitor cable

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

## Chipset

- AMD B350 Chipset

## Front ports

- Two USB 3.1 Gen2, two USB 3.1 Gen1, optional two USB 3.1 Type-C Gen 2 (only available via special bid), microphone (3.5mm), headphone (3.5mm)

## Rear ports

- Two USB 3.1 Gen1, two USB 2.0, optional two USB 3.1 Gen1, optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA and two DisplayPort (not available on models with AMD Ryzen processor), two PS/2 ports (keyboard / mouse)

## Rear audio ports

- Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

## Audio support

- High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt )
- USB 3.0 + 2.0, optional two USB 2.0, serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA and two DisplayPort (not available on models with AMD Ryzen processor), two PS/2 ports (keyboard / mouse)

## Bluetooth™

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

## Ethernet Modem

- Gigabit ethernet, Realtek RTL8111EPV, Wake on LAN®
- None

## Manageability

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

## Mechanical

- SFF (4.9L), black color
- Approx. 12.2 lb (5.5 kg), weight may vary by configuration
- Toolless cover, disk, optical removal
- Optional system floor stand for vertical orientation
- 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)
- Some: 210 watts, autosensing, 92% PSU (only available via special bid)
- Some: 210 watts, autosensing, 92% PSU
- Some: 210 watts, autosensing, 92% PSU
- Some: 210 watts, autosensing, 92% PSU
- 3-year 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
- Some: Windows 10 Pro 64-bit
- Some: Windows 10 Home 64-bit
- Preloaded applications (only some listed)
- Microsoft Office preloaded
- Adobe Reader®
- Cyberlink PowerDVD Create (DVD±RW)

## Environment

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

## Accessories

- For compatible accessories, please go to [http://www.lenovoupick.com](http://www.lenovoupick.com)
## ThinkCentre M715 Tiny Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>AMD A6, A10, or A12 series APUs</th>
</tr>
</thead>
<tbody>
<tr>
<td>APU</td>
</tr>
<tr>
<td>PRO A6-9500E</td>
</tr>
<tr>
<td>PRO A10-9700E</td>
</tr>
<tr>
<td>PRO A12-9800E</td>
</tr>
<tr>
<td>PRO A6-8570E</td>
</tr>
<tr>
<td>PRO A10-8770E</td>
</tr>
<tr>
<td>PRO A12-8870E</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
- Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one rear port*, one optional port (VGA, 3rd DP, HDMI, or serial on some models), one headphone / microphone combo jack (stereo, 3.5mm)

### Onboard SATA Media Reader
- One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
- None

### Graphics

<table>
<thead>
<tr>
<th>AMD Radeon™ Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>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);</td>
</tr>
<tr>
<td>Max resolution: 4096x2160 (DP)@60Hz; 4096x2160 (HDMI)@30Hz; 1920x1200 (VGA)@60Hz;</td>
</tr>
<tr>
<td>Optional DP to DVI, DP to DVI-D (single link), or DP to HDMI 1.4 dongle</td>
</tr>
</tbody>
</table>

### Chipset

<table>
<thead>
<tr>
<th>AMD B300 Chipset</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)</td>
</tr>
<tr>
<td>One USB 3.0 and three USB 2.0 (optional external optical box or I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, HDMI, or serial on some models), one headphone / microphone combo jack (stereo, 3.5mm)</td>
</tr>
<tr>
<td>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)</td>
</tr>
</tbody>
</table>

### Audio Support

- High Definition (HD) Audio, Realtek ALC232-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, 2x2
- Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1

### Bluetooth

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

### Ethernet Modem

- None

### Manageability

<table>
<thead>
<tr>
<th>Security features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Security chip</td>
</tr>
<tr>
<td>Security chip</td>
</tr>
<tr>
<td>Security chip</td>
</tr>
<tr>
<td>Security chip</td>
</tr>
</tbody>
</table>

### Accessories

- For compatible accessories, please go to [http://www.lenovoquickpick.com](http://www.lenovoquickpick.com)
### ThinkCentre M715 Tiny (2nd Gen) Platform Specifications

Product Specifications Reference (PSREF)

#### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>AMD Athlon, A6, A10, A12, or Ryzen processor</th>
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</thead>
<tbody>
<tr>
<td>Athlon 200GE</td>
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<tr>
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<td>Ryzen 5 PRO 2400GE</td>
<td>4 / 4 3.2 / 3.5 GHz 2 MB DDR4-2400 Radeon RX Vega 8</td>
</tr>
</tbody>
</table>

#### Memory

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

#### Disk

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

#### Optical

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

#### Onboard SATA

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

#### Graphics

- **AMD Radeon™ Graphics** in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional port (HDMI, VGA, or 3rd DP), supports 3 independent displays (supports 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

#### Monitor cable

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

#### Chipset

- **AMD B350 Chipset**

#### Front ports* (Std.)

- Two USB 3.1 Gen1 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone (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 less than theoretical speed**
  - **Not supported VGA, 3rd DP, HDMI for the models with Athlon / Athlon PRO

#### Audio support

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

#### WLAN

- Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1

#### 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, Realtek RTL8111EPV, Wake on LAN

#### Manageability

- DASH 1.0/1.1

#### Security chip

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

#### Keyboard

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

#### Mouse

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

#### Mechanical

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

#### VESA mount

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

#### Floor Stand

- Optional system floor stand for vertical orientation

#### Power supply

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

#### Preload

- **Preloaded operating system**:
  - Windows 10 Pro 64-bit
  - Windows 7 Professional 64
  - preinstalled through downgrade rights in Windows 10 Pro 64-bit
  - Lenovo P200 preloaded;
  - Microsoft Office preloaded; purchase a product key to activate
  - Cyberlink PowerDVD (only for models with DVD / Dvd±RW)
  - Cyberlink Power2GO (only for models with DVD±RW)
  - LinkedIn

- **Preloaded applications only some listed**:
  - Windows 10 only
  - Lenovo Vantage
  - Microsoft Office preloaded;
  - Cyberlink PowerDVD (only for models with DVD±RW)
  - Cyberlink Power2GO (only for models with DVD±RW)
  - LinkedIn
  - Lenovo Solution Center
  - Create Recovery Media
  - Microsoft Office preloaded;
  - buy from Lenovo;
  - Adobe Reader*

- **ENERGY STAR** 7.0*, EPEAT™ Gold rating* (*Not for non-OS models);
  - ErP Lot 3; RoHS-compliant

#### Environment

- 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.
**ThinkCentre M715 Tiny Thin Client Platform Specifications**

**Processor**
- AMD A6, A10, or A12 series APUs
  - **APU**
    - PRO A6-8570E: 2 cores, 3.0 / 3.4 GHz, 1 MB, DDR4-2400, Radeon R5 Series
    - PRO A10-8770E: 4 cores, 2.8 / 3.5 GHz, 2 MB, DDR4-2400, Radeon R7 Series
    - PRO A12-8870E: 4 cores, 2.9 / 3.8 GHz, 2 MB, DDR4-2400, Radeon R7 Series

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

**Graphics**
- AMD Radeon
  - Some: High Definition (HD) Audio, Realtek ALC233-CG / internal speaker (1.5 watt)
  - Some: 13ac wireless, M.2 Card, Realtek RTL8821AE (dual band), Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
  - Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter
  - Some: Gigabit ethernet, Realtek RTL8111EPV, Wake on LAN

**I/O box**
- Audio support: High Definition (HD) Audio, Realtek ALC233-CG / internal speaker (1.5 watt)
- Bluetooth™: None
- Ethernet: None
- Media reader: None
- Onboard SATA: None
- Onboard USB: One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
- Onboard 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)
- One USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one microphone / microphone combo jack (stereo, 3.5mm)

**Security chip**
- DASH 1.0/1.1
- Discrete TPM 2.0, TCG Certified

**Security features**
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Individual USB port disablement
- Chassis intrusion switch

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

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

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

**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)

**VESA mount**
- Optional VESA mount bracket kit, supports VESA 75mm and 100mm
- 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 or 3-year, depot service / service upgrades available
- Some: 1-year or 3-year, limited onsite service / service upgrades available

**Environmental**
- ENERGY STAR® 6.1
- EPEAT™ Gold rating* (*not for non-OS models); ErP Lot 3; GREENGUARD<sup>®</sup>, RoHS-compliant

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

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

Product Specifications Reference (PSREF)

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>
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<td>Radeon Vega 3</td>
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<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 6.0Gb/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/HDMI dongles, and Athlon / Athlon PRO only support 2 displays),
  Max resolution: 4096x2160 (DP)@60Hz; 4096x2160 (HDMI)@30Hz; 1920x1200 (VGA)@60Hz

Monitor cable

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

Chipset

| AMD B300 Chipset |

Front ports* (Std.)

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

Rear ports* (Opt.)

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

Audio support

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

WLAN

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

Bluetooth

- Gigabit ethernet, Realtek RTL8111E/V, Wake on LAN

Manageability

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

Security chip

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

Keyboards

- 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

Measurals

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

VESA mount

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

Floor Stand

- Optional system floor stand for vertical orientation

Power supply

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

Limited warranty

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

Preload

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

Environment

- ENERGY STAR® 6.1*, EPEAT 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)

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

Lenovo, July 2018
### Processor Specifications

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<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency Base/Max(GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
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<tbody>
<tr>
<td>Intel Celeron G4900</td>
<td>2 / 2</td>
<td>3.1G / 2.4G</td>
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</tbody>
</table>

### Memory Specifications

- **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 Specifications

- **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
  - * M.2 SSD (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s
- **Some:** Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2
- **Some:** DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)
- **Some:** DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)
- **Optional:** Three onboard SATA 6.0Gb/s connectors
- **Media reader:** Optional 7-in-1 media reader

### Optical Specifications

- **Intel UHD Graphics 610/630** in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™ supports 3 independent displays, works along with discrete graphics to support more displays;
  - **Max resolution:** 4096x2304 (DP) @ 60Hz; 2048x1536 (VGA) @ 50Hz
- **Some:** NVIDIA GeForce® GT 730, DirectX 12, 2GB, PCIe 2.0 x16 adapter, two DisplayPort, 35 watts;
  - **Max resolution:** 3840x2160 (DisplayPort) @ 60Hz
- **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 4.1 dongle

### Monitor Specifications

- **B360 Chipset**

### Chipset Specifications

- **Front ports:** (Std.) 2x USB 3.1 Gen2, 2x USB 3.1 Gen1, 1x USB 3.1 Type-C Gen1 (15W charging), 1x microphone (3.5mm), 1x headphone / microphone combo jack (3.5mm)
- **Front ports:** (Opt.) 1x media reader
- **Rear ports:** (Std.) 4x USB 2.0, 1x serial (9-pin), 1x ethernet (RJ-45), 1x VGA, 2x DisplayPort, 1x line-out (3.5mm)
- **Rear ports:** (Opt.) Optional: 2x USB 3.1 Gen1 via PC1 x1**, 2x USB 3.1 Type-C Gen2 via PCIE x4** (special bid only), 1x 2nd serial (9-pin), 4x serial (9-pin) via PCIE x1, 1x parallel (25-pin), 2x PS/2 ports (keyboard/mouse), additional RJ-45 and video ports available on optional graphics or ethernet card
  - * Depending on many factors, actual data transfer speed may be lower than theoretical speed
  - ** Choose either 2x USB 3.1 Gen1 or 2x USB 3.1 Type-C Gen2

### Audio Specifications

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

### WLAN Specifications

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

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

Lenovo, June 2019
## ThinkCentre M720 Tiny Specifications

<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>Processor</strong></td>
<td><strong>Cores / Threads</strong></td>
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<tr>
<td>Celeron G4900T</td>
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<tr>
<th>Memory</th>
<th>32GB max, DDR4-2666*, two 260-pin SO-DIMM sockets, non-ECC, dual-channel capable</th>
</tr>
</thead>
</table>
| 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*, 32Gbps
* 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gbps |
| Optical | Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2 SSD / DVD-ROM, slim (9.0mm), via USB external ODD box
Some: DDVD Burner (DDVD+RW), slim (9.0mm), via USB external ODD box |
| Onboard SATA | One onboard SATA 6.0Gb/s connector |
| Graphics | Intel HD Graphics 610/630 in processor, uses main memory, DirectX 12, one DisplayPort™, one HDMI, one optional video port (2nd HDMI, VGA, 2nd DP, or USB 3.1 Type-C Gen1 with DisplayPort function), up to 3 independent displays; 
Max resolution: 4096x2304 (DP) @ 60Hz; 4096x2304 (Type-C) @ 60Hz
Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2 SSD / DVD-ROM, slim (9.0mm), via USB external ODD box |
| Monitor cable | Intel B360 Chipset |
| Chipset | Intel B360 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 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 ALC233VB / optional internal speaker (1.5 watt or 2 watt) |
| WLAN | Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2 |
| Bluetooth | Some: Bluetooth 4.2 wireless, integrated in Wi-Fi + BT combo adapter |
| Ethernet | Gigabit ethernet, 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
  - Security features
    - None
      - 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
- Some: Lenovo Calliope Keyboard (USB connector), black
- Some: Lenovo Traditional Keyboard (USB connector), black
- Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black
- Some: Lenovo Calliope Mouse (USB connector), black
- Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
- Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

### Mouse
- Tiny (11L), black color, metal case
- Touchless chassis open (need optional touchless chassis screw)
- Touchless HDD, 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

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

### 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)
  - Cyberlink PowerDVD (only for models with DVD±RW)
  - LinkedIn

### 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

### Dimensions (WxHxD)
- VESA mount & ODD box
  - 7.42" X 7.30" X 4.28" (188.4mm X 185.38mm X 63mm)
- 2.91 lb (1.32 kg), vary by config

### Weight (Approx.)
- 2.17 kg (4.79 lb), vary by config

### 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

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

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

Lenovo, June 2019
ThinkCentre M720 Tower Platform Specifications

Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency Base/Max (GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
</tr>
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<tbody>
<tr>
<td>Celeron G4900</td>
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<td>2 MB DDR4-2400</td>
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</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”, 5400 rpm
- Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4*, 32Gb/s
- * 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16GB/s

Optical

- 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

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

Graphics

- Intel UHD Graphics 610/630 in processor, uses main memory, DirectX™ 12
- Some: Intel UHD Graphics 630, M.2

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 DPI to HDMI 1.4 dongle

Chipset

- Intel B360 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 2.0, 1x serial (9-pin), 1x ethernet (RJ-45), 1x VGA, 2x DisplayPort, 1x line-out (3.5mm)

Rear ports (Opt.)

- Optional: 2x USB 3.1 Gen1 via 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), additional RJ-45 and video ports available on optional graphics or ethernet card
  ** Choose either 2x USB 3.1 Gen1 or 2x USB 3.1 Type-C Gen2

Audio support

- High Definition (HD) Audio, Realtek ALC232VB2 / internal speaker (2 watt )

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

Lenovo, June 2019
## ThinkCentre M725 SFF Platform Specifications

### Processor
- **AMD A6 / A8 / A10 / A12 and Ryzen 3 / 5 / 7 series processor**
- **Cores / Threads**: 2 / 2
- **Frequency (Base/MAX)**: 3.5 / 3.8
- **L2 Cache**: 1MB
- **Memory Support (Up to)**: DDR4-2400
- **Integrated Graphics**: Radeon R5

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

### Storage
- **Some**: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
- **Some**: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
- **Some**: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 320Gb/s
- **128GB SSD M.2 (2242) PCIe NVMe and AMD A6 / A8 / A10 / A12 processor only**

### 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 DP dongle, of DP to HDMI 1.4 dongle**

### Chipset
- **AMD B450 Chipset**

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

### Rear ports* (Opt.)
- 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)

### 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, 2x2

### Bluetooth™
- **Some**: Bluetooth 4.2, wireless, integrated in Wi-Fi + BT combo adapter
- **Hardware supports BT 4.2, but Win10 RUS and earlier only supports BT 4.1**

### Mechanical
- **SFF (8.4L), black color, metal case**
- **WWDxDH 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**: low-profile (length < 150mm, height < 68mm), PCIe 1.0 x1
- **M.2 card slots: two (one for WLAN, one for SSD)**

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

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

### Accessory
- **Preload 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 DVDs/RW)
    - LinkedIn

### Environment
- **ENERGY STAR® 7.0, EPEAT™ Gold rating** (*not for non-OS models; EPEAT Lot 3; RoHS-compliant* )

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

Lenovo, July 2018
### Processor

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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 i7-7600</td>
<td>4 / 8</td>
<td>3.5G / 4.6G</td>
<td>8 MB</td>
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<tr>
<td>Core i3-7300</td>
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<tr>
<td>Core i5-7500</td>
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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 (with 7th gen Core processor), M.2

### 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

- 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

### 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)

### Mechanical

- SFF (8.4L), black color, metal case
- Optional dust filter
- TUV low noise verified (on some models)
- ENERGY STAR® 6.1, EPEAT™ Gold rating (North America)

### Audio support

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

### Front ports

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

### Rear ports

- Four USB 3.1 Gen1, optional two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), Ethernet (RJ-45), one VGA, two DisplayPort, optional two PS/2 ports (keyboard/mouse); additional DisplayPort on optional graphics on some models

### Rear audio ports

- Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)
- Optional rear audio ports
- Optional dust filter
- TUV low noise verified (on some models)

### Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- SMART hard disk protection
- Intelligent Power Manager
- Boot control key
- Hard disk drive password
- Optional chassis intrusion switch

### Keyboard

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

### Mouse

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

### Mechanical

- Optional 2 front USB3.1 Type-C ports module occupies PCIe x16 (x4 signal) slot, optional rear 2x USB2.0 / parallel / 2nd serial / cable lock / Wi-Fi antenna occupies one expansion slot
- 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

- Windows® 10 Pro 64-bit preinstalled in downgraded rights in Windows 10 Pro 64-bit (not available with 7th Gen Intel processor)
- Only for Windows 10

### Environment

- ENERGY STAR® 6.1, EPEAT™ Gold rating (North America)

### 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
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**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.Gb/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 (9.9mm), 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**

**Graphics**

Intel HD Graphics 510/530/610/630 in processor, uses main memory. DirectX 12, two DisplayPort™, one optional video port (HDMI, VGA, 3rd DP, or USB 3.1 Type-C with DisplayPort Alternate Mode), up to 3 independent displays; Max resolution: 4096x2304 (DP) @ 60Hz, 4096x2160 (Type-C) @ 60Hz; 4096x2160 (HDMI) @ 24Hz; 1920x1200 (VGA) @ 60Hz.

**Monitor cable**

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

**Chipset**

Intel Q270 chipset

**Front ports**

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

**Rear ports**

- Four USB 3.1 Gen1 (external optical box or external I/O box occupies one or two pins). Two USB 3.1 Gen1 (one on some models), ethernet (RJ-45) to 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; one 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 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, 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**

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

**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 disablement
- Chassis intrusion switch

**Keyboard**

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

**Mouse**

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

**Mechanical**

- VESA mount & I/O box
- Dimensions (WxDxH): 179mm X 182.9mm X 34.5mm
- Weight (Approx.): 2.91 lb (1.32 kg)

- With VESA mount & I/O box
- Dimensions (WxDxH): 188.4mm X 185.38mm X 66.6mm
- Weight (Approx.): 3.66 lb (1.66 kg)

**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)
- **Some:** Windows 10 Pro 64-bit (not available with 7th Gen Intel processor)
- **Some:** Windows 10 Home 64-bit (not available with 7th Gen Intel processor)
- **Some:** Lenovo Unite (vPro models only)
- **Some:** Lenovo Unite download link (vPro models only)
- **Some:** Lenovo Companion
- **Some:** Intel Unite download link 

**Environment**

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

**MIL-SPEC test**

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

**Accessories**

For compatible accessories, please go to http://www.lenovopickquick.com
ThinkCentre M910 Tower Platform Specifications

Product Specifications Reference (PSREF)

Processor

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<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
</tbody>
</table>

Memory

64GB max, DIMM, 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 B M.2 B 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: Front accessible and removable HDD, 3.5”, lockable via physical key
Some: DVD-ROM, SATA 1.5Gb/s, 5.25” or slim (9.0mm)
Some: BD Burner (DVsD+RW), SATA 1.5Gb/s, 5.25” or slim (9.0mm)
Onboard SATA
Four onboard SATA 6.0Gb/s connectors (1x eSATA and 3x SATA), 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 x 8 adapter, two DisplayPort, 35 watts;
Max resolution: 3840x2160 (DisplayPort) @60Hz;
Some: AMD Radeon™ R7 380, 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
Some: NVIDIA GeForce GTX™ 1080 (only available via special bid model), Directx 12, 8GB, PCIe 3.0 x16 adapter, one DVI-D, one HDMI, three DisplayPort, 180 watts, occupies two slots;
Max resolution: 2560x1600 (DVI-D) @60Hz; 4096x2160 (HDMI) @60Hz 7680x4320 (with Single DP) @60Hz
Monitor Cable
Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

Chipset

Intel Q270 Chipset

Front ports

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

Rear ports

Four USB 3.1 Gen1, optional two USB 2.0, serial (9-pin), optional 2 serial ports (keyboard/mouse);
Optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional two PS/2 ports (keyboard/mouse);
Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394a

None

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

Audio support

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

WLAN

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377/7A (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, Intel i9 vPro technology support, 2x2

Bluetooth™

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

Ethernet Modem

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

Manageability

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

Security chip

Security slot (in rear for optional Kensington® MicroSaver® cable)
Power-on password
Administrator password
Hard disk password
Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
Optional cable lock to physically lock both keyboard and mouse

Security features

Power-on password
Administrator password
Hard disk password
Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
Optional cable lock to physically lock both keyboard and mouse

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

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

Mechanical

Tower (18L), black color, metal case

WxDxH: 6.5” X 12.65” X 16.15”;
Some: 150mm X 321.55mm X 410.25mm
Some: Approx. 15.45lb (7 kg), weight may vary by configuration

Touchless cover, disk, optical, graphic card removal

Optional carry handle, dust filter

Bay 1: Slim external odd bay
Bay 2: 5.25”, 1.6” high, external, ODD / optional front access HDD
Bay 3: 3.5”, 1.5” high, internal, HDD/SSD
Bay 4: 3.5”, 1.5” high, internal, HDD/SSD (optional bay, bay comes with disk)
Bay 5: 2.5”, internal, HDD/SSD (optional bay)

Notes: M910 Tower supports up to 3 SATA devices (ODD/HDD/SSD) and 1 eSATA device (front access HDD)

Slot 1: full-length full-height (length < 268mm, height < 112mm), PCIe x16* (x4 signal)
Slot 2: full-length full-height (length < 268mm, height < 112mm), PCIe x16* (x4 signal)
Slot 3: full-length full-height (length < 268mm, height < 112mm), PCIe x16* (x4 signal)
Slot 4: no slot, only bracket for optional port extension

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

Optional 2 front USB3.1 Type-C ports module occupies PCIe x16 (x4 signal) slot, optional rear 2x USB2.0 / parallel / 2nd serial occupies one expansion slot

Power supply

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

Limited warranty

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

Preload operating system

Some: Windows® 7 Professional 32/64 (not available with 7th Gen Intel processor)
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Some: Windows 10 Pro 64-bit

Preloaded applications (only some listed)

Microsoft Office preloaded;
- Only for Windows 10
- Lenovo Companion
- Only for Windows 7
Lenovo Solution Center
Lenovo ThinkVantage Tools
Catalyst Reccom. Media
Adobe® Reader®
Cyberlink PowerDvd Create (DVD+RW)

Environment

ENERGY STAR® 6.1, EPEAT® Gold rating (North America), E2P Lotus 3, GREENGUARD®, RoHS-compliant, TUV low noise verified (on some models)

Accessories

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

Lenovo, August 2017
## ThinkCentre M910x Tiny Platform Specifications

### Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Celeron®, Intel Pentium®, or 6/7th Generation Intel Core™ i3 / i5 / i7 Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td>i5-6500T, i7-6700T, i5-7500T, i7-7700T, i5-6600T, i7-7700K, i5-7600K, i7-7800X</td>
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<td>Frequency</td>
<td>2.50 / 3.1G, 2.80 / 3.6G, 2.70 / 3.3G, 2.80 / 3.7G, 2.90 / 3.6G, 3.40 / 4.0G, 3.50 / 4.1G, 3.60 / 4.2G</td>
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<tr>
<td>Cache</td>
<td>6 MB, 8 MB, 8 MB, 6 MB, 8 MB, 8 MB, 8 MB, 8 MB</td>
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<tr>
<td>Memory Support (Up to)</td>
<td>DDR4-2133, DDR4-2133, DDR4-2400, DDR4-2400, DDR4-2400, DDR4-2400, DDR4-2400, DDR4-2400</td>
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<tr>
<td>Integrated Graphics</td>
<td>HD 530, HD 530, HD 630, HD 630, HD 630, HD 630, HD 630, 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 support

### 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" (* 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 (DVD±RW), slim (9.0mm), via USB external ODD box

### Optical

- One onboard SATA 6.0Gb/s connector

### Onboard SATA Media reader

- None

### Graphics

- Intel HD Graphics 510/530/610/630 in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional video port (HDMI, VGA, 3rd DP, or USB 3.1 Type-C with DisplayPort Alternate Mode), up to 3 independent displays; Max resolution: 4096x2304 (DP) @ 60Hz, 4096x2304 (Type-C) @ 60Hz, 4096x2160 (HDMI) @ 24Hz, 1920x1200 (VGA) @ 60Hz
- 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: 5120x2880 @ 60Hz (up to 2 mini DisplayPort), 4096x2160 @ 60Hz (up to 4 mini DisplayPort)

### Monitor cable

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

### Chipset

- Intel Q270 Chipset

### Front ports*

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

### Rear ports*

- Four USB 3.1 Gen1 (optional optical box or I/O box box occupies one or two specific USB 3.1 Gen1), ethernet (RJ-45), two DisplayPort, two optional ports (not available for the models with RX 460 graphics): Port 1 for [VGA / 3rd DP / HDMI / serial / USB 3.1 Gen1]; Port 2 for [DisplayPort Alternate Mode]; Port 2 for [serial]
- Optional external I/O box extends two USB 2.0, two USB 3.1 Gen1, and one serial on rear, two USB 2.0 on front, via USB cable (occupy 2 specific USB 3.1 G1 of Tiny)

### 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, 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
- 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

### Ethernet

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

### Manageability

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

### Security chip

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

### Mechanical

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

### VESA mount

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

### Dimensions (WxDxH)

- M910 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
- With VESA mount & ODD box: 7.42" X 7.30" X 2.48", 188.4mm X 185.38mm X 63mm, 3.66 lb (1.66 kg), vary by config

### Power supply

- 135 watts AC/DC adapter, autotuning, 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
- Some: Windows 10 Home 64-bit, limited onsite service / service upgrades available

### Preloaded applications (only some listed)

- Microsoft Office preloaded; purchase a product key to activate
- Only for Window 10
- Lenovo Companion
- Intel Unite download link
- *vPro models only
- Only for Window 7
- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- Create Recovery Media
- Adobe® Reader®
- Cyberlink PowerDVD Create (DVD±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.lenovoupick.com

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See footnotes for more detailed information

© Lenovo (M910x Tiny-Spec) May 2017
### ThinkCentre M920 SFF Platform Specifications

#### Processor
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<tr>
<td>Cores / Threads</td>
<td>Frequency Base/Max(GHz)</td>
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<tr>
<td>Core i9-9800</td>
<td>8 / 16</td>
</tr>
</tbody>
</table>

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

#### Storage
| Some: | Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
| Some: | Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
| Some: | M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
| 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
| Optical | DVD-ROM, SATA 1.5Gb/s Drive, slim (9.0mm)
| Optical | DVB Burner (DVD+RW), SATA 1.5Gb/s Drive, slim (9.0mm)

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

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

#### Graphics
- Intel UHD Graphics 610/630 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™, supports 3 independent displays, works along with discrete graphics to support more displays;
- Max resolution: 4096x2304 (DP) @ 60Hz; 2048x1536 (VGA) @ 50Hz

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

#### Chipset
- Intel Q370 Chipset

#### Front ports*
- (Std.) 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)

#### 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: 1x media reader

#### Front 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

#### Audio support
- High Definition (HD) Audio, Realtek ALC233VB2 / internal speaker (2 watt)

#### WLAN
- Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, Intel vPro technology support, 2x2
- Some: Bluetooth 4.2/5.0 wireless, integrated in Wi-Fi + BT combo adapter
- Gigabit ethernet, Intel Ethernet Connection I219-LM(Jacksonville), Wake on LAN®
- Some: Intel Ethernet Server Adapter I350-T4, gigabit ethernet, 4x RJ-45, PCIe x4
- Some: Bittland BNE888, gigabit ethernet, 1x RJ-45, PCIe x1 (special bid only)

#### Bluetooth
- Ethernet (Opt.)

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

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

#### Mechanical
- SFF (8.4L), black color, metal case
- *WxDxH* 3.6” x 11.4” x 13.5”; 92.5mm X 290.5mm X 343.5mm
- Approx. 13.23 lb (6 kg), weight may vary by configuration
- Touchless cover, disk, optical, extension card removal
- Optional dust filter
- Bay 1: Slim external ODD bay
- Bay 2: 3.5”, 1” high, internal, HDD/SSD
- Bay 3: 2.5”, internal, HDD/SSD (optional bay)
- Slot 1: Low-profile (length < 150mm, height < 66mm), PCIe 3.0 x16
- Slot 2: Low-profile (length < 150mm, height < 66mm), PCIe 3.0 x16 (x4 signal)
- Slot 3: No slot, only bracket for optional port extension
- M.2 card slots: Two (one for WLAN, one for SSD/Optane)

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

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

#### Optional dust filter

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

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

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

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency Base/Max(GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
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</table>

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

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*, 3200MB/s
* 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s

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

Onboard SATA One onboard SATA 6.0Gb/s connector

Graphics Intel HD Graphics 610/630 in processor, uses main memory, DirectX® 12, one DisplayPort™, one HDMI, one optional video port (2nd HDMI, VGA, 2nd DP, or USB 3.1 Type-C Gen1 with DisplayPort function), up to 3 independent displays:
Max resolution: 4096x2304 (DP) @ 60Hz; 4096x2304 (Type-C) @ 60Hz
Some: Intel HD 610 graphics (onboard), optional M.2 SSD / PCIe NVMe, PCIe 3.0 x 4*, 3200MB/s

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

Chipset Intel Q370 Chipset

Front ports (Std.)* one USB 3.1 Gen 1 (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 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
* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support Realtek ALC233VB2 / 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 RTL8882BE2 (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2

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

Bluetooth Ethernet Ethernet (Opt.) 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®

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

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

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

Mouse Tiny (1L), black color; metal case
Tiltless chassis open (need optional toolless chassis screw)
Tiltless HDD, SSD, memory removal
Optional dust filter one 2.5" bay for HDD/SSD, one PCIe 3.0 x 8 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

Mechanical 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
With VESA mount & ODD box 7.42” X 7.30” X 2.48” 188.4mm X 185.38mm X 63mm 3.66 lb (1.66 kg), vary by config

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)
● Cyberlink Power2GO (only for models with DVD+RW)
● LinkedIn
● Intel Unite (Machine Type 10V8 models only)

Environment ENERGY STAR® 7.0, EPEAT™ Gold rating (North America), ErP Lot 3, TCO, CEE 7.0 ultra 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

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<td>UHD 630</td>
</tr>
</tbody>
</table>

### Memory

- 64GB max, DDR4-2666, four 288-pin DIMM sockets, dual-channel capable
- Some 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" x 3.5"
- Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
- Some: M.2 PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s

### Optical

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

### Onboard SATA

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

### Media reader

- Optional 7-in-1 media reader

### Graphics

- Intel UHD Graphics 610 / 630 in processor, uses main memory, DirectX™ 12, one VGA, two DisplayPort™, supports 3 independent displays, works along with discrete graphics to support more displays
- Some: NVIDIA GeForce® GT 730, DirectX 12, 2GB, PCIe x 16 adapter, two DisplayPort, 35 watts
- Some: NVIDIA GeForce GTX 1060 (special bid only), DirectX 12, 6GB, PCIe 3.0 x16 adapter, 1x DVI-D, 1x HDMI, 3x DP, 120 watts, occupies two slots

### Monitor Cable

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

### Chipset

<table>
<thead>
<tr>
<th>Chipset</th>
<th>Intel Q370 Chipset</th>
</tr>
</thead>
</table>

### Front ports (Standard) 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)

### Rear ports (Optional) 1x media reader

### Rear ports (Optional) 1x USB 2.0, 2x USB 3.1 Gen1 via PCIe x1, 1x USB 3.1 Type-C Gen2 via PCIe x4 (special bid only), 1x 2nd serial (9-pin), 1x 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

### Audio support

- High Definition (HD) Audio, Realtek ALC3233VB2 / internal speaker (2 watt)

### WLAN

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

### Bluetooth™ Ethernet (Opt.)

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

### Manageability

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

### Security chip

- Discrete TPM 2.0, CTO Certified

### Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Optional: optional lock to physically lock both keyboard and mouse
- Optional chassis intrusion switch
- Optional: Buster Switch
- USB safe connect, allows keyboard/ mouse only, blocks all storage devices
- Security support, adds 1x security slot (no port)

### Mechanical

- Tower (18L), black color, metal case
- (WxDxH) 6.5” X 12.65” X 16.15”, 165mm X 321.35mm X 410.25mm
- Approx. 15.45 lb (7 kg), weight may vary by configuration
- Tower supports up to 3 SATA devices (ODD/HDD and SSD)
- M.2 Card (front access HDD)
- Slot 1: full-length (< 268mm) full-height (< 112mm), PCIe 3.0 x1
- Slot 2: full-length (< 268mm) full-height (< 112mm), PCIe 3.0 x1
- Slot 3: full-length (< 268mm) full-height (< 112mm), PCIe 3.0 x4 (x1 slot)
- M.2 card slots: Two (one for WLAN, one for SSD/Opante)
- Individual USB port disablement
- Optional: optional lock to physically lock both keyboard and mouse

### Power supply

- Lenovo Traditional Keyboard (USB connector), black
- Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black
- Lenovo Calliope Mouse USB (special bid)
- Lenovo Traditional Keyboard (USB connector), black
- Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black
- Lenovo Calliope Wireless Mouse (4.2GHz via USB receiver), black
- Lenovo Calliope Mouse (PS/2 connector), black (only available via special bid)

### Ports

- Some: 2x USB 2.0, 2x USB 3.1 Gen1 via PCIe x1, 1x USB 3.1 Type-C Gen2 via PCIe x4 (special bid only), 1x serial (9-pin), 1x parallel (25-pin)
- Some: 2x PS/2 ports (keyboard/mouse)
- Some: 2x USB 2.0, 2x USB 3.1 Gen1 via PCIe x1, 1x USB 3.1 Type-C Gen2 via PCIe x4 (special bid only), 1x serial (9-pin)

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

Lenovo, June 2019
**ThinkCentre M920x Tiny Platform Specifications**

**Product Specifications Reference (PSREF)**

- **Processor**
  - Intel® Celeron®, Intel® Pentium®, or 8th / 9th Gen Intel Core™ i3 / i5 / i7 / i9 Processor
  - **Integrated Graphics**
    - Intel® UHD 630
    - Intel® UHD 610

- **Memory**
  - **DDR4-2666**
  - **2.1G / 4.4G**
  - **4 MB**

- **Graphics**
  - Intel® HD Graphics 610/630 in processor, uses main memory, DirectX® 12, one DisplayPort™, one HDMI, one optional video port (2nd HDMI, VGA, 2nd DP), or USB 3.1 Type-C Gen1 with DisplayPort function, up to 3 independent displays;
  - **Max resolution:** 5120x2880@60Hz (up to 2 Mini DisplayPort); 4096x2160@60Hz (up to 4 Mini DisplayPort)
  - Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle (for Collage Display with multiple integrated graphics), or DP to HDMI 1.4 dongle, Mini DP to DP

- **Chipset**
  - Intel® Q370 Chipset

- **Optical Drive (ODD) box**

- **Power**
  - 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)

- **WLAN**
  - Intel® Wireless AC 2260

- **Storage**
  - Various options are available, including SATA SSD, M.2 SSD, or optical drive

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

- **Limited warranty**
  - 1-year or 3-year, depot service / service upgrades available

- **Preload**
  - Windows® 10 Pro 64-bit

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

- **MIL-SPEC test**
  - MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature)

- **Dimensions (WxDxH)**
  - Vesa mount: 184.4m x 185.3mm x 63mm

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

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

Lenovo, June 2019
ThinkSmart Hub 500 Platform Specifications

Positioning
Purpose-built Skype Room Systems device

Processor
7th Gen Intel Core™ i5 Processor with vPro

<table>
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<tr>
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<th>Core i5-7500T</th>
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<th>2.7G / 3.3G</th>
<th>6 MB DDR4-2400</th>
<th>HD 630</th>
</tr>
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</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

Display
Intel HD Graphics 630 in processor, uses main memory, DirectX® 12

Multi-touch
Supports 10-point touch, OGS

Sensor
IR Presence/Motion sensor, automatically dim / brighten display (Detection angle: +/- 45% from display; detection distance: 3 meters at minimum)

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

Chipset
Intel Q270 Chipset

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

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

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

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

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

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)
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

Keyboard
None

Mouse
None

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

Power supply
90 watts adapter, autosensing, 88% efficiency

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

Preload
Preloaded operating system
Windows® 10 IoT Enterprise 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

See footnotes for more detailed information

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(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**

- Viewable image size: 21.5” (546.1mm) diagonal
- Max view area (W x H): 18.74” x 10.54” / 476.06mm x 267.79mm
- Bezel Width: Top / Side: 2mm, Bottom: 16.3mm
- Optimum resolution: 1920x1080
- Aspect ratio: 16:9
- Pixel pitch (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: 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

**Preset / user settings**

- Presets: 25
- User settings: 25

**On screen display**

- Control features: 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
- 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**

- Dimensions: TIO 22 without stand: 19.25 x 2.65 x 12.47; TIO 22 with stand: 19.25 x 9.90 x 14.02 - 18.35
- W x D x H (inch)
- W x D x H (mm): 489.06 x 67.2 x 316.78
- 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

**Ergonomics**

- VESA-compliant®
- Ergonomics: VESA DDC2B/CI, VESA DPMS-compliant
- Emission standards: ISO 9241-307

**Environmental**

- Energy 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**


**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

**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>
<th>M93/p 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>

See footnotes for more detailed information

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

**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 / M660 / 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**

- 720:1 (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, 66Hz, 72Hz, 75Hz
- 720x400 @ 70Hz
- 800x600 @ 60Hz, 66Hz, 72Hz, 75Hz
- 1024x768 @ 60Hz, 70Hz, 75Hz
- 1152x864 @ 75Hz
- 1280x800 @ 60Hz
- 1280x1024 @ 60Hz, 72Hz, 75Hz
- 1366x768 @ 60Hz
- 1440x900 @ 60Hz, 72Hz, 75Hz
- 1600x1200 @ 60Hz, 70Hz, 75Hz
- 1680x1050 @ 60Hz
- 1920x1080 @ 60Hz

**Presets / user settings**

- Presets: 25; user settings: 25

**On screen display**

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

**Tiny-in-One Power On**

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

**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 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

  **TIO with stand:** W x D x H (inch) 19.26 x 10.76 x 14.59 - 18.93

  **Weight (Approx.)**

  **TIO without stand:** 7.01 lb / 3.19 kg

  **TIO with stand:** 11.77 lb / 5.34 kg

**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

**Ergonomics**

- ISO 9241-307, TUV 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 certified

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

### ThinkCentre Tiny-in-One 22 Gen3 Compatible list

<table>
<thead>
<tr>
<th>Model</th>
<th>M910 / M710 / M900 / M700 / M660 / M715 / M83 / M53 Tiny</th>
<th>M93p Tiny, M73 Tiny</th>
<th>Chromebox</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Turn on TIO and Tiny together via</strong></td>
<td>All models</td>
<td>All models</td>
<td>Not support</td>
</tr>
<tr>
<td><em>Alt + P on USB KB</em></td>
<td><strong>Turn on TIO and Tiny together via</strong></td>
<td>All models</td>
<td>TIO models</td>
</tr>
<tr>
<td><strong>TIO Power Button</strong></td>
<td>All models</td>
<td>All models</td>
<td>All models</td>
</tr>
</tbody>
</table>
## ThinkCentre Tiny-in-One (TIO) 24

**Model:** 10LLPAR6++ / 10LLPAT6++

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

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

**Panel:**
- **Viewable image size:** 23.8” (604.7mm) diagonal
- **Max view area (W x H):** 21.06” x 12.32” / 535.9mm x 313.0mm
- **Bezel Width:** Top / Side: 2mm, Bottom: 16.3mm
- **Optimum resolution:** 1920x1080
- **Aspect ratio:** 16:9
- **Pixel pitch (mm):** 0.2745mm
- **Dot/ Pixel per inch:** 92.6 dpi
- **Brightness:** 250 nits or cd/m² (typical)
- **Contrast ratio:** 1000:1 (typical)
- **Pixel response time:** 7ms
- **Color gamut:** 72%
- **Anti-reflective:** Anti-glare
- **Viewing angle at 10:1 CR:** 178° (+/- 89°) horizontal, 178° (+/- 89°) vertical

**Preset resolutions:**
- 640x480 @ 70Hz
- 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
- 1600x1050 @ 60Hz
- 1920x1080 @ 60Hz

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

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

**Control features:**
- Mode-switching (TIO mode / standalone monitor mode, switches video / audio / USB input / output sources) / Back button, Left shift button, Right shift / 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)
- The USB ports are only available when a Tiny is installed or a PC is connected via USB upstream port

**Side ports:**
- Side ports offered by installed Tiny (optional)

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

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

**Internal Speaker:**
- 1.5 watt 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:**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>TIO 24 without stand</th>
<th>TIO 24 with stand</th>
</tr>
</thead>
<tbody>
<tr>
<td>W x D x H (inch)</td>
<td>21.24 x 2.7 x 13.64</td>
<td>21.24 x 9.90 x 15.16 - 19.46</td>
</tr>
<tr>
<td>W x D x H (mm)</td>
<td>539.6 x 68.2 x 346.45</td>
<td>539.6 x 251.4 x 385.08 - 495.08</td>
</tr>
</tbody>
</table>

**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/C, VESA DPMS-compliant

**Ergonomics:**
- ISO 9241-307

**Emission standards:**
- FCC Class B

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

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

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

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

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

Product Specifications Reference (PSREF), Lenovo, July 2017

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**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**
- 1920x1080
- Aspect ratio: 16:9
- Contrast ratio: 1000:1 (typical)
- Pixel pitch (mm): 0.2745mm
- Brightness: 250 nits or cd/m² (typical)
- Viewable image size: 23.8” (604.7mm) diagonal
- Max view area (W x H): 21.06” x 12.32” / 535.0mm x 313.0mm
- Bezel Width: Top / Side: 2mm, Bottom: 22.1mm

**Viewing angle**
- at 10.1 CR 178° (+/- 89°) horizontal, 178° (+/- 89°) vertical

**Resolution**
- 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, 72Hz, 75Hz
- 1600x1050 @ 60Hz
- 1920x1080 @ 60Hz

**On screen display**
- Presets: 25; user settings: 25
- 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)**
- USB 3.1 Gen1 / USB 2.0 (when M73 or M53 installed or USB 2.0 connected via USB upstream port)

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

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

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

**Mechanical**
- Dimensions: 21.25 x 2.85 x 14.47
- Weight: 7.96 lb / 3.61 kg

---

**Power consumption**
- 90 watts AC/DC adapter, 88% PSU, universal
- 19 watts typical, 32 watts maximum, <0.5 watts standby / suspend

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

**Energy efficiency**
- ENERGY STAR®
- TCO 7.0, TCO Edge 2.0, WEEE, RoHS, ENERGY STAR® 7.0,
- EPEAT™ Gold rating, ULE Gold, TUV, VOC

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

**Adaptable stand**
- Tilt: 30° back, -5° forward;
- Swivel: +/45°;
- Pivot: clockwise 0° to 90°

**Power supply**
- 9.0VDC 12.92 lb / 5.86 kg

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**ThinkCentre Tiny-in-One 24 Gen3 Compatible list**

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**Accessories**
- For compatible accessories, please go to [http://www.lenovoquickpick.com](http://www.lenovoquickpick.com)
ThinkCentre Tiny-in-One (TIO) 27

Product Specifications Reference (PSREF)
Lenovo, Feb 2019

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

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

Panel
TFT-LCD, In-Plane Switching technology**, White LED backlight**
*Notes: In-Plane Switching may refer to IPS, PLS, ADS, AHVA, and AA

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

Multi-touch
None

Aspect ratio
16:9

Pixel pitch (mm)
0.2331mm

Dot/Pixel per Inch
109 dpi

Brightness
350 nits or cd/m² (typical)

Contrast ratio
1000:1 (typical)

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

Color gamut
99% sRGB

Anti-glare
Yes (25%)

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
1280x768 @ 60Hz
1280x800 @ 60Hz
1280x1024 @ 60Hz, 72Hz, 75Hz
1366x768 @ 60Hz
1440x900 @ 60Hz, 70Hz, 75Hz
1600x1200 @ 60Hz, 70Hz, 75Hz
1680x1050 @ 60Hz
1920x1080 @ 60Hz
2560x1440 @ 60Hz

Presets / user settings
Presets: 27; 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 TION can turn on both TIO and Tiny (only some support, see Compatible Matrix)

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 (TIO)
Side ports offered by the installed Tiny (optional)

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 Winodws 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 (W x D x H mm / inch)
TIO with stand: 614.0 x 393.9 x 413.1 / 24.17 x 15.5 x 16.2
TIO without stand: 614.0 x 329.0 x 444.25 / 24.17 x 13.25 x 17.5

Weight (Approx.)
TIO with stand: 8.32 kg / 18.32 lb
TIO without stand: 4.91 kg / 10.82 lb

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

Adjustable stand
Tilt: 30° back, 0° forward;
Lift: 4.3" (110mm);
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)

VESA-compliant
VESA DDC/CI, VESA DPMS-compliant

Ergonomics
ISO 9241-307, TUV Eye Comfort certified

Emission standards
FCC Class B

Environmental
TCO 6.0, TCO Edge 2.0, WEEE, RoHS, ENERGY STAR® 7.0, EPEAT™ Bronze rating, ULE Gold, TUV, VOC

Windows certifications
Windows 7 and Windows 10 certified

Ship group
TIO 27 (Monitor), detachable stand, power adapter, power cord, reference and driver CD

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>P320 / P330 / M920(x) / M720 / M910(x) / M710 / M900(x) / M700 / M600 / M715 / M83 / M53 Tiny</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tiny</td>
<td>M93/p Tiny, M73 Tiny</td>
</tr>
<tr>
<td>Chromebox</td>
<td></td>
</tr>
<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>

Lenovo, Feb 2019
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