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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.

May 15, 2019 - Version 542

Additions in this update

► New product(s)
  ThinkPad E495 models announced April 2019
  ThinkPad E595 models announced April 2019

► New model(s)
  ThinkPad T490 models announced April 2019

► Others
  None

Withdrawals in this update

► Withdrawn product(s)
  None
## ThinkPad 11e (5th Gen) Platform Specifications

**Product Specifications Reference (PSREF)**

**Lenovo**
April 2019

### Processor
- 7th Generation Intel® Core™ m / i5 Processor, Intel Celeron™ processor, or Intel Pentium™ Silver processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Burst Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>m3-7Y30</td>
<td>2</td>
<td>4</td>
<td>1.0 GHz</td>
<td>2.6 GHz</td>
<td>4MB</td>
<td>LPDDR3-1866</td>
<td>Intel HD Graphics 615</td>
</tr>
<tr>
<td>i5-7Y54</td>
<td>2</td>
<td>4</td>
<td>1.2 GHz</td>
<td>3.2 GHz</td>
<td>4MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 600</td>
</tr>
<tr>
<td>Celeron N4100</td>
<td>4</td>
<td></td>
<td>1.1 GHz</td>
<td>2.4 GHz</td>
<td>4MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 605</td>
</tr>
<tr>
<td>Pentium Silver N5000</td>
<td>4</td>
<td></td>
<td>1.1 GHz</td>
<td>2.7 GHz</td>
<td>4MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 605</td>
</tr>
</tbody>
</table>

### Graphics
- Intel HD Graphics 615, Intel UHD Graphics 600 or 605 in processor, supports external digital monitor via HDMI or USB Type-C; supports dual independent display;
- Max resolution: 3840x2160@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

### Chipset
- Intel SoC (System on Chip) platform
- 4GB or 8GB / 1866MHz LPDDR3 or 2400MHz DDR4 / soldered to systemboard, no sockets

### Display
- **Some:** 11.6” (295mm) HD (1366x768), anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio
- **Some:** 11.6” (295mm) HD (1366x768), anti-glare, LED backlight, IPS, multi-touch, 250 nits, 16:9 aspect ratio, 800:1 contrast ratio, 170° viewing angle
- Capacitive-type multi-touch, supports 10-finger gesture (HD IPS only)

### Multi-touch

### Storage
- eMMC flash memory on board or M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s

### Optical
- None

### Ethernet
- Realtek RTL8111GUS Gigabit Network Connection

### WLAN + Bluetooth™
- One of the following, configurable by model:
  - Intel Wireless-AC 9260, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card
  - Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card (US only)

### WWAN
- None

### Dimensions
- WxDxH: 11.81” x 8.27” x 0.86”; 300mm x 210mm x 21.9mm

### Weight
- Starting at 2.99 lb (1.36 kg)

### Case color
- Black

### Case material
- *Display cover: PC/ABS+GF; Bottom: PC/ABS plastic

### Media reader
- MicroSD card reader

### Ports
- Two USB 3.1 Gen 1, one USB 3.1 Type-C Gen 1 (with the power of Power Delivery and DisplayPort), HDMI 1.4b, Ethernet (RJ-45), headphone / microphone combo jack, microSD card reader, security keyhole
  * Depending on many factors, actual data transfer speed may be lower than theoretical speed

### Camera
- HD720p camera, fixed focus

### Audio support
- HD Audio, Realtek® ALC3287 codec, stereo speakers, 2W x 2, Dolby® Audio™, monaural digital microphone, combo audio/microphone jack

### Keyboard
- 6-row, spill-resistant, multimedia Fn keys

### Touchpad
- Buttonless Mylar surface touchpad below keyboard, multi-touch

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

### Battery
- Integrated Li-ion 42Wh battery
- **MobileMark® 2014:** 13.9 hr
  * Battery life varies significantly with settings, usage, & other factors

### AC adapter
- 45W or 65W slim tip AC adapter

### Preload
- Windows® 10 Home 64 or Windows 10 Pro 64

### Limited warranty
- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1-yr battery depot repair service

### Mil-Spec test
- MIL-STD-810G military certification

### Environment
- EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant
ThinkPad A275 Platform Specifications

Product Specifications Reference (PSREF)

Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRO A10-8730B</td>
<td>4</td>
<td>4</td>
<td>2.4 GHz</td>
<td>3.3 GHz</td>
<td>2MB</td>
<td>DDR4-1666</td>
<td>AMD Radeon R5 Graphics</td>
</tr>
<tr>
<td>PRO A12-8830B</td>
<td>4</td>
<td>4</td>
<td>2.5 GHz</td>
<td>3.4 GHz</td>
<td>2.7GHz</td>
<td>DDR4-1666</td>
<td>AMD Radeon R7 Graphics</td>
</tr>
<tr>
<td>PRO A10-9700B</td>
<td>4</td>
<td>4</td>
<td>2.5 GHz</td>
<td>3.4 GHz</td>
<td>2.7GHz</td>
<td>DDR4-1666</td>
<td>AMD Radeon R7 Graphics</td>
</tr>
<tr>
<td>PRO A12-9800B</td>
<td>4</td>
<td>4</td>
<td>2.7 GHz</td>
<td>3.6 GHz</td>
<td>2.7GHz</td>
<td>DDR4-1666</td>
<td>AMD Radeon R7 Graphics</td>
</tr>
</tbody>
</table>

* Windows 7 is only supported by PRO A10-8730B and PRO A12-8830B

Graphics

- AMD Radeon R5 or R7 Graphics in processor only.
- Supports external digital monitor via HDMI or USB Type-C.
- Supports three independent displays.
- Max resolution: 4096x2160@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

Chipset

- AMD SoC (System on Chip) platform
- 16GB max / 1866MHz DDR4, one DDR4 SO-DIMM socket

Display

- On-cell touch, supports 10-finger gesture (FHD only, US only)
- 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle
- 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, IPS, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio

Multi-touch (opt)

- System has one HDD slot or one M.2 slot exclusively for storage.
- HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
- SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high (e.g. xxxGB SSD)
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s

Optical

- None

Ethernet

- Realtek® RTL8111EPV Gigabit Ethernet connection

WLAN

- Realtek RTL8822BE, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
- Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN (optional)

- Wireless WAN upgradable
- Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455)
- For non-wwan model, it means the model is NOT WWAN upgradable

SIM card (opt)

- Micro-SIM card slot, opt Verizon LTE (US) SIM card

Dimensions

- Weight
  - No + 3-cell: 3.2 lb / 1.45 kg
  - 3-cell + 3-cell: 3.3 lb / 1.5 kg
  - 3 + 6-cell: 5.5 lb / 2.5 kg

- Weight:
  - 2.7 lb / 1.27 kg
  - 2.9 lb / 1.36 kg
  - 3.3 lb / 1.52 kg

- Weight:
  - 2.7 lb / 1.27 kg
  - 2.9 lb / 1.36 kg
  - 3.3 lb / 1.52 kg

- Weight:
  - 2.7 lb / 1.27 kg
  - 2.9 lb / 1.36 kg
  - 3.3 lb / 1.52 kg

- Weight:
  - 2.7 lb / 1.27 kg
  - 2.9 lb / 1.36 kg
  - 3.3 lb / 1.52 kg

Case color

- Black

Case material

- Glass-Fiber Reinforced Plastic

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

Lenovo
April 2019
### ThinkPad A285 Platform Specifications

#### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ryzen 3 PRO 2300U</td>
<td>4</td>
<td>4</td>
<td>2.0 GHz</td>
<td>3.4 GHz</td>
<td>2MB L2 / 4MB L3</td>
<td>DDR4-2400</td>
<td>Radeon Vega 6 Graphics</td>
</tr>
<tr>
<td>Ryzen 5 PRO 2500U</td>
<td>8</td>
<td>8</td>
<td>2.0 GHz</td>
<td>3.6 GHz</td>
<td></td>
<td>Radeon Vega 8 Graphics</td>
<td></td>
</tr>
<tr>
<td>Ryzen 7 PRO 2700U</td>
<td>8</td>
<td>8</td>
<td>2.2 GHz</td>
<td>3.8 GHz</td>
<td></td>
<td>Radeon Vega 10 Graphics</td>
<td></td>
</tr>
</tbody>
</table>

#### Graphics

| AMD Radeon Vega 6, Vega 8, or Vega 10 Graphics in processor only; supports external digital monitor via HDMI or USB Type-C; supports four independent displays: Max resolution: 3840x2160@60Hz (5K) / 3840x2160@60Hz (4K) / 1920x1080@60Hz (Full HD) |

#### Chipset

<table>
<thead>
<tr>
<th>AMD SoC (System on Chip) platform</th>
</tr>
</thead>
</table>

| Chipset Memory | 8GB or 16GB / 2400MHz DDR4, soldered to systemboard, no sockets |

#### Display

| Some: 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16.9 aspect ratio, 400:1 contrast ratio |
| Some: 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16.9 aspect ratio, 800:1 contrast ratio, 170° viewing angle |
| WxDxH (FHD non-touch): 12.11" x 8.26" x 0.70"; 307.7mm x 209.8mm x 17.4mm |
| WxDxH (FHD non-touch): 12.11" x 8.26" x 0.69"; 307.7mm x 209.8mm x 17.4mm |
| FHD non-touch model: 2.48 lb / 1.13 kg |
| HD non-touch model: 2.78 lb / 1.26 kg |
| FHD multi-touch model: 2.79 lb / 1.27 kg |

#### Storage

| One of the following, configurable by model: |
| M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2) |
| M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxGB SSD M.2 PCIe NVMe) |

#### Optical

| Gigabit Ethernet connection via bundled or optional ThinkPad Ethernet Extension Adapter Gen 2 |

#### WLAN

| Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.2, M.2 card |
| Bluetooth 4.2 wireless, integrated in Wi-Fi + Bluetooth combo adapter |

| Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card |
| * For non-WWAN model, it means the model is NOT WWAN upgradable |

#### WWAN (optional)

| Nano-SIM card slot, in the combo slot with microSD card reader, optional Verizon LTE (US) SIM card |

#### SIM card (optional)

### Monitor cable (optional)

| HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter |

#### Media reader

| MicroSD card reader, in the combo slot with nano-SIM card |

#### Ports

| One USB 3.1 Gen 1 (Always On), one USB 3.1 Gen 2, two USB 3.1 Type-C Gen 2 (with the function of Power Delivery and DisplayPort), HDMI 2.0, Ethernet extension connector, combo slot of nano-SIM card (WWAN models) and microSD card reader, headphone / microphone combo jack, optional smart card reader, side docking connector, security keyhole |

#### Monitor cable

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

#### Security

| Security chip fingerprint reader NFC |

#### Battery

| Integrated Li-ion 48Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter | 6.1; RoHS-compliant |

#### AC adapter

| 45W or 65W USB Type-C AC adapter | 6.1; RoHS-compliant |

#### Limited warranty

| One of the following, configurable by model: |
| 1-year depot repair service |
| 3-year/1-year battery depot repair service |
| 3-year/1-year battery limited onsite service |

#### Environment

| MIL-Spec test MIL-STD-810G military certification | Lenovo April 2019 |

### Note

The specifications above may not be available in all regions.
## ThinkPad A475 Platform Specifications

**Product Specifications Reference (PSREF)**

### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRO A10-8730B</td>
<td>4</td>
<td>2.4 GHz</td>
<td>3.3 GHz</td>
<td>2MB</td>
<td>DDR4-1866</td>
</tr>
<tr>
<td>PRO A12-8830B</td>
<td>4</td>
<td>2.5 GHz</td>
<td>3.4 GHz</td>
<td></td>
<td>Radeon™ R5 Graphics</td>
</tr>
<tr>
<td>PRO A10-9700B</td>
<td>4</td>
<td>2.5 GHz</td>
<td>3.4 GHz</td>
<td></td>
<td>Radeon™ R7 Graphics</td>
</tr>
<tr>
<td>PRO A12-9800B</td>
<td>2</td>
<td>2.7 GHz</td>
<td>3.6 GHz</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Windows 7 is only supported by PRO A10-8730B and PRO A12-8830B

### Graphics

- AMD Radeon R5 or R7 Graphics in processor only;
- supports external digital monitor via HDMI or USB Type-C;
- supports three independent displays;
- Max resolution: 4096x2160@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

### Chipset

- AMD SoC (System on Chip) platform

### Memory

- 32GB max / 1866MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

### Display

- Some: 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 350:1 contrast ratio
- Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle
- Multi-touch (opt) On-cell touch, supports 10-finger gesture (FHD only, US only)

### Storage

- System has one HDD slot or one M.2 2280 slot exclusively for storage
- Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
- Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high (e.g. xxzGB SSD)
- Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s

### Optical

- None

### Ethernet

- Realtek® RTL8111EPV Gigabit Ethernet connection

### WLAN

- Realtek RTL8822BE, Wi-Fi 2x2 802.11ac + BT 4.1, M.2 card
- Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

### WWAN (optional)

- One of the following, configurable by model:
  - Wireless WAN upgradable
  - Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455)
- For non-WWAN model, if means the model is NOT WWAN upgradable

### SIM card (optional)

- Micro-SIM card slot, opt Verizon LTE (US) SIM card

### Dimensions

<table>
<thead>
<tr>
<th>Weight</th>
<th>Models</th>
<th>3-cell or 3 + 3-cell</th>
<th>6-cell or 3 + 6-cell</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium</td>
<td>3.49 lb / 1.58 kg</td>
<td>3.92 lb / 1.78 kg</td>
<td></td>
</tr>
<tr>
<td>PPS</td>
<td>3.63 lb / 1.65 kg</td>
<td>4.35 lb / 1.85 kg</td>
<td></td>
</tr>
</tbody>
</table>

### Case color

- Black

### Case material

- Display cover: Magnesium Hybrid or PPS (Magnesium Hybrid for US only);
- Bottom: Glass-Fiber Reinforced Plastic

### Smart card reader

- Optional: Smart card reader

### Media reader

- 4-in-1 reader (MMC, SD, SDHC, SDXC), supports SD 3.0, UHS-I
- Three USB 3.1 Gen 1 (USB 3.0, one Always On), USB 3.1 Type-C Gen 2 (with the function of Power Delivery and DisplayPort), HDMI 1.4b, Ethernet (RJ-45), Dock connector

### Monitor cable

- Depending on many factors, actual data transfer speed may be lower than theoretical speed
- Optional: Lenovo USB-C to VGA Adapter

### Camera (optional)

- HD720p resolution, fixed focus

### Audio support

- HD Audio, Realtek ALC1286 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

### Keyboard

- 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

### UltraNav™

- TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

### Security chip

- Power-on password, hard disk password, supervisor password, security keyhole
- dTPM 1.2: discrete TPM 1.2, TCG Certified
- dTPM 2.0: discrete TPM 2.0, TCG Certified

### Fingerprint reader

- Optional: Touch style match on chip fingerprint reader on the keyboard bezel

### NFC

- None

### Internal battery

- Optional: Integrated Li-Polymer 3-cell (24Wh)

### External battery

- Li-Polymer 3-cell (24Wh) or Li-ion 6-cell (48Wh)

### Max battery life

- MobileMark® 2014

<table>
<thead>
<tr>
<th>Max battery life</th>
<th>Models</th>
<th>3-cell</th>
<th>3 + 3-cell</th>
<th>6-cell 48Wh</th>
<th>3 + 6-cell 48Wh</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.13 hr</td>
<td>3-cell</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.26 hr</td>
<td>3 + 3-cell</td>
<td></td>
<td></td>
<td>6-cell 48Wh</td>
<td></td>
</tr>
<tr>
<td>10.26 hr</td>
<td></td>
<td>3 + 6-cell</td>
<td>6-cell 48Wh</td>
<td></td>
<td>15.4 hr</td>
</tr>
</tbody>
</table>

* Battery life varies significantly with settings, usage, & other factors

### AC adapter

- 45W or 65W slim tip AC adapter, 45W or 65W USB Type-C AC adapter

### Preload

- Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo PowerManage
- ThinkVantage Product Recovery
- ThinkVantage System Update
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate

### Limited warranty

- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1-yr battery depot repair service
  - 5-year/1-yr battery limited onsite service

### Mi-Spec test

- MIL-STD-810G military certifications

### Environment

- EPEAT® Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

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

Lenovo
April 2019
### ThinkPad A485 Platform Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Processor</strong></td>
<td>AMD Ryzen™ PRO Mobile Processors with Radeon™ Vega Graphics</td>
</tr>
<tr>
<td><strong>Processor Number</strong></td>
<td></td>
</tr>
<tr>
<td>Ryzen 3PRO 2300U</td>
<td></td>
</tr>
<tr>
<td>Ryzen 5PRO 2500U</td>
<td></td>
</tr>
<tr>
<td>Ryzen 7PRO 2700U</td>
<td></td>
</tr>
<tr>
<td><strong># of Cores</strong></td>
<td>4, 8, 8</td>
</tr>
<tr>
<td><strong># of Threads</strong></td>
<td>4, 8, 8</td>
</tr>
<tr>
<td><strong>Base Frequency</strong></td>
<td>2.0 GHz, 3.0 GHz, 2.0 GHz</td>
</tr>
<tr>
<td><strong>Max Turbo Frequency</strong></td>
<td>3.4 GHz, 3.8 GHz, 3.8 GHz</td>
</tr>
<tr>
<td><strong>Cache</strong></td>
<td>2MB L2 / 4MB L3</td>
</tr>
<tr>
<td><strong>Memory Types</strong></td>
<td>DDR4-2400</td>
</tr>
<tr>
<td><strong>Processor Graphics</strong></td>
<td>Radeon Vega 6, Radeon Vega 8, Radeon Vega 10</td>
</tr>
<tr>
<td><strong>Graphics</strong></td>
<td>AMD Radeon, Vega 6, Vega 8, Vega 10</td>
</tr>
<tr>
<td><strong>Chipset</strong></td>
<td>AMD SoC (System on Chip)</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>32GB max / 2400MHz DDR4</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>Some: 14.0” (355mm) HD, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>System has one HDD slot or one M.2 2280 slot exclusively for storage</td>
</tr>
<tr>
<td><strong>Ethernet</strong></td>
<td>Realtek® RTL8111GUL Gigabit Ethernet connection</td>
</tr>
<tr>
<td><strong>WLAN</strong></td>
<td>Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card</td>
</tr>
<tr>
<td><strong>Bluetooth™</strong></td>
<td>Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter</td>
</tr>
<tr>
<td><strong>WWAN (optional)</strong></td>
<td>Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card</td>
</tr>
<tr>
<td><strong>SIM card (optional)</strong></td>
<td>Nano-SIM card slot, optional Verizon LTE (US) SIM card</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>WxDxH: 13.25” x 9.15” x 0.79”; 336.6mm x 232.5mm x 19.95mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Models: 24Wh or 24Wh + 48Wh, 48Wh, 72Wh, 48Wh + 48Wh / 72Wh</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td>Integrated Li-ion 24Wh battery and external Li-ion 24Wh, 48Wh, or 72Wh battery</td>
</tr>
<tr>
<td><strong>AC adapter</strong></td>
<td>Preload Windows® 10 Home 64 or Windows 10 Pro 64</td>
</tr>
<tr>
<td><strong>Security</strong></td>
<td>One of the following, configurable by model:</td>
</tr>
<tr>
<td></td>
<td>• HD720p camera with ThinkShutter camera privacy, fixed focus</td>
</tr>
<tr>
<td></td>
<td>• IR camera and HD720p camera, fixed focus</td>
</tr>
<tr>
<td><strong>Audio support</strong></td>
<td>HD Audio, Realtek® ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo jack</td>
</tr>
<tr>
<td><strong>Camera</strong></td>
<td>One of the following, configurable by model:</td>
</tr>
<tr>
<td></td>
<td>• UltraNav™ 6-row, spill-resistant, multimedia Fn keys, optional LED backlight</td>
</tr>
<tr>
<td></td>
<td>• TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad</td>
</tr>
<tr>
<td><strong>Keyboard</strong></td>
<td>Power-on password, hard disk password, supervisor password, security keyhole</td>
</tr>
<tr>
<td><strong>Optical</strong></td>
<td>Discrete TPM 2.0, TCG Certified</td>
</tr>
<tr>
<td><strong>Optical</strong></td>
<td>One of the following, configurable by model:</td>
</tr>
<tr>
<td></td>
<td>• Touch style match on chip fingerprint reader on the keyboard bezel</td>
</tr>
<tr>
<td><strong>Preload</strong></td>
<td>Windows® 10 Home 64 or Windows 10 Pro 64</td>
</tr>
<tr>
<td><strong>Limited warranty</strong></td>
<td>One of the following, configurable by model:</td>
</tr>
<tr>
<td></td>
<td>• 1-year depot repair service</td>
</tr>
<tr>
<td></td>
<td>• 3-year/1-yr battery depot repair service</td>
</tr>
<tr>
<td></td>
<td>• 3-year/1-yr battery limited onsite service</td>
</tr>
<tr>
<td><strong>Environment</strong></td>
<td>MIL-Spec test MIL-STD-810G military certification</td>
</tr>
<tr>
<td><strong>NFC</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Case color</strong></td>
<td>Black</td>
</tr>
<tr>
<td><strong>Case material</strong></td>
<td>Display cover: Magnesium Hybrid or PPS;</td>
</tr>
<tr>
<td></td>
<td>Bottom: Glass-Fiber Reinforced Plastic</td>
</tr>
</tbody>
</table>

Note: The specifications above may not be available in all regions.
# ThinkPad E480 Platform Specifications

## Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i7-8550U</td>
<td>4</td>
<td>8</td>
<td>1.8 GHz</td>
<td>4.0 GHz</td>
<td>6MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>i5-8250U</td>
<td>4</td>
<td>4</td>
<td>2.7 GHz</td>
<td>4.1 GHz</td>
<td>6MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
</tbody>
</table>

8th Generation Intel Core i3 / i5 / i7 Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i3-8130U</td>
<td>2</td>
<td>4</td>
<td>2.2 GHz</td>
<td>4.1 GHz</td>
<td>4MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>i5-7200U</td>
<td>4</td>
<td>8</td>
<td>2.3 GHz</td>
<td>3.4 GHz</td>
<td>6MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>i5-7200U</td>
<td>2</td>
<td>4</td>
<td>2.5 GHz</td>
<td>3.1 GHz</td>
<td>6MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
</tbody>
</table>

7th Generation Intel Core™ i3 / i5 Processor (i3-7130U is NOT available in US and EMEA) or

<table>
<thead>
<tr>
<th>Processor</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i3-7130U</td>
<td>2</td>
<td>4</td>
<td>2.7 GHz</td>
<td>3.4 GHz</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
</tbody>
</table>

## Graphics

The ThinkPad E480 offers Intel HD Graphics 620 or Intel UHD Graphics 620 in processor only or Intel HD Graphics 620 or Intel UHD Graphics 620 in processor and AMD Radeon RX 550 Graphics, 2GB DDR5 memory, supports external digital monitor via HDMI or USB Type-C; supports dual independent display.

Max resolution: 1920x1080 (HDMI)@60Hz

## Chipset

Intel SoC (System on Chip) platform

## Memory

32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

* System clocks down for processors with lower memory controller

## Display

- Some: 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio
- Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio

## Multi-touch

Up to 2 drives (one M.2 SSD and one HDD)

## Storage

- Some: SSD / SATA 6.0Gbps, 2.5" wide, removable, upgradable, Active Protection System™
- Some: M.2 SSD / PCIe NVMe

## Optical

None

## Ethernet

Gigabit Ethernet Connection, Realtek R8111GUS

## WLAN + Bluetooth™

One of the following, configurable by model:
- Realtek® RTL8821CE, Wi-Fi 1x1 802.11ac + Bluetooth 4.1, M.2 card
- Realtek RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
- Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + Bluetooth 4.1, M.2 Card
- Intel 3165ac card supports BT4.2 but is limited to BT4.1 by Windows OS

## WWAN

None

## SIM card

None

## Dimensions

- **Aluminum (WxDxH):** 12.96" x 9.53" x 0.78"; 329mm x 242mm x 19.9mm
- **PC/ABS (WxDxH):** 12.96" x 9.53" x 0.83"; 329mm x 242mm x 21.9mm

## Weight

Starting at 3.87 lb / 1.75kg

## Case material

Black or silver

## Display cover

Aluminum or PC/ABS plastic; Bottom: PC/ABS plastic

## Case color

Black or silver

## Operating system

Windows 10 Home 64 or Windows 10 Pro 64

## Battery

Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

Max battery life

- MobileMark® 2014: 13.51 hr
- Battery life varies significantly with settings, usage, & other factors

AC adapter

- 45W or 65W USB Type-C AC adapter

## Preload

( optional ) Windows® 10 Home 64 or Windows 10 Pro 64

## Limited warranty

1-year depot repair service

## Mil-Spec test

MIL-STD-810G military certification

## Environment

EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

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

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**Lenovo**

April 2019
## ThinkPad E485 Platform Specifications

### Processor AMD Ryzen™ Mobile Processors with Radeon™ Vega Graphics

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Controller</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ryzen 3 2200U</td>
<td>2</td>
<td>4</td>
<td>2.5 GHz</td>
<td>3.4 GHz</td>
<td>1MB L2 / 4MB L3</td>
<td>DDR4-2400</td>
<td>Radeon Vega 3 Graphics</td>
</tr>
<tr>
<td>Ryzen 5 2500U</td>
<td>4</td>
<td>8</td>
<td>2.0 GHz</td>
<td>3.6 GHz</td>
<td>2MB L2 / 4MB L3</td>
<td></td>
<td>Radeon Vega 8 Graphics</td>
</tr>
<tr>
<td>Ryzen 7 2700U</td>
<td>8</td>
<td>8</td>
<td>2.2 GHz</td>
<td>3.8 GHz</td>
<td>2MB L2 / 4MB L3</td>
<td></td>
<td>Radeon RX Vega 10 Graphics</td>
</tr>
</tbody>
</table>

### Graphics
- AMD Radeon Vega 3, Vega 8, or RX Vega 10 Graphics in processor;
- supports external digital monitor via HDMI or USB Type-C;
- supports dual independent display;
- Max resolution: 1920x1080 (HDMI)@60Hz

### Chipset
- AMD SoC (System on Chip) platform

### Memory
- 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

### Display
- Some: 14.0” (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio
- Some: 14.0” (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio
- Multi-touch: None

### Storage
- Up to 2 drives (one M.2 SSD and one HDD)
- Some: HDD / SATA 6.0Gb/s, 2.5” wide, removable, upgradable, Active Protection System™
- Some: M.2 SSD / PCIe NVMe
- None

### Optical
- Gigabit Ethernet Connection, Realtek RTL8111GUS

### Ethernet
- Gigabit Ethernet Connection, Realtek RTL8111GUS

### WLAN + Bluetooth™
- One of the following, configurable by model:
  - Qualcomm QCNFA435, Wi-Fi 1x1 802.11ac + Bluetooth 4.1, M.2 card
  - Realtek® RTL8821CE, Wi-Fi 1x1 802.11ac + Bluetooth 4.1, M.2 card
  - Realtek RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card

### WWAN
- None

### SIM card
- None

### Dimensions
- Aluminum (WxDxH): 12.96” x 9.53” x 0.78”; 329mm x 242mm x 19.9mm
- Weight: 2.99 lbs / 1.36kg

### Case color
- Black

### Case material
- Display cover: Aluminum or PC/ABS plastic;
- Bottom: PC/ABS plastic

### Smart card reader
- None

### Media reader
- MicroSD card reader

### Audio support
- HD Audio, Conexant® CX11852 codec / stereo speakers, 1.5W x 2, Dolby® Advanced Audio / dual array microphone, headphone / microphone combo jack

### Keyboard
- 6-row, spill-resistant, multimedia Fn keys

### Security
- Power-on password, hard disk password, supervisor password, security keyhole

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

### Security chip
- Fingerprint reader: None

### Battery
- Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter
- Max battery life: MobileMark® 2014: 9.37 hr
- *Battery life varies significantly with settings, usage, & other factors

### AC adapter
- 45W or 65W USB Type-C AC adapter

### Preload (optional)
- Windows® 10 Home 64 or Windows 10 Pro 64

### Limited warranty
- 1-year depot repair service

### Mi-Spec test
- None

### Environment
- EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

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

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

Lenovo
April 2019
<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Case color</th>
<th>Case material</th>
<th>Chipset Memory</th>
<th>Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i3-8145U</td>
<td>2</td>
<td>4</td>
<td>2.1 GHz</td>
<td>3.9 GHz</td>
<td>4MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
<td>12.96” x 9.53” x 0.78”</td>
<td>329mm x 242mm x 19.9mm</td>
<td>PC/ABS</td>
<td>Aluminum or PC/ABS plastic; Bottom: PC/ABS plastic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>i5-8265U</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>3.9 GHz</td>
<td>6MB</td>
<td>DDR4-2400</td>
<td>AMD Radeon RX 550X Graphics, 2GB DDR5 memory; supports external digital monitor via HDMI or USB Type-C; supports dual independent display; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@24Hz (HDMI)</td>
<td>12.96” x 9.53” x 0.83”</td>
<td>329mm x 242mm x 21.9mm</td>
<td>PC/ABS</td>
<td>Black or silver</td>
<td></td>
<td>Intel SoC (System on Chip) platform</td>
</tr>
<tr>
<td>i7-8565U</td>
<td>4</td>
<td>8</td>
<td>1.8 GHz</td>
<td>4.6 GHz</td>
<td>8MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620 in processor only or Intel UHD Graphics 620 in processor and AMD Radeon RX 550X Graphics, 2GB DDR5 memory; supports external digital monitor via HDMI or USB Type-C; supports dual independent display; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@24Hz (HDMI)</td>
<td>12.96” x 9.53” x 0.83”</td>
<td>329mm x 242mm x 21.9mm</td>
<td>PC/ABS</td>
<td>Black or silver</td>
<td></td>
<td>Intel SoC (System on Chip) platform</td>
</tr>
</tbody>
</table>

**Display**

<table>
<thead>
<tr>
<th>Size/Resolution</th>
<th>Surface Type</th>
<th>Brightness</th>
<th>Aspect Ratio</th>
<th>Contrast Ratio</th>
<th>Viewing Angle</th>
<th>Multi-touch</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.0” HD (1366x768)</td>
<td>Anti-glare TN</td>
<td>220 nits</td>
<td>16:9</td>
<td>400:1</td>
<td>90°</td>
<td>Non-touch</td>
</tr>
<tr>
<td>14.0” FHD (1920x1080)</td>
<td>Anti-glare IPS</td>
<td>250 nits</td>
<td>16:9</td>
<td>600:1</td>
<td>170°</td>
<td>Non-touch</td>
</tr>
</tbody>
</table>

**Multi-touch**

None

**Storage**

Up to two drives (one M.2 SSD and one HDD)
- HDD / SATA 6.0Gb/s, 2.5” wide, 7mm high, Active Protection System™
- M.2 SSD / SATA 6.0Gb/s
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 2

**Optane™ memory**

Optional: Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2

**Optical**

None

**Ethernet**

Gigabit Ethernet Connection, Realtek R8111GUS

**WLAN + Bluetooth™**

One of the following, configurable by model:
- Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.2, M.2 card
- Intel Wireless-AC 9260, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card

**WWAN**

None

**Camera**

HD720p camera, fixed focus

**Audio support**

HD Audio, Conexant® CX11880 codec / stereo speakers, 1.5W x 2, Dolby® Advanced Audio / dual array microphone, headphone / microphone combo jack

**Keyboard**

UltraNav™ 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

**TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

**Security**

Power-on password, hard disk password, supervisor password, security keyhole

**Security chip**

Integrated model: discrete TPM 2.0, TCG Certified

Discrete model: firmware TPM 2.0 integrated in chipset

**System Mgt**

None

**Fingerprint reader**

Optional: Touch style fingerprint reader on the palm rest

**Battery**

Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

**Max battery life**

MobileMark® 2014: 13 hr

**AC adapter**

45W or 65W USB Type-C AC adapter

**Preload (optional)**

Windows® 10 Home 64 or Windows 10 Pro 64

**Limited warranty**

1-year depot repair service

**Mil-Spec test**

MIL-STD-810G military certification

**Environment**

EPEAT™ Bronze; ENERGY STAR® 7.0; RoHS-compliant

Note: The specifications above may not be available in all regions.
## ThinkPad E490s Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i5-8265U</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>3.9 GHz</td>
<td>6MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>i7-8565U</td>
<td>1</td>
<td>1</td>
<td>1.8 GHz</td>
<td>4.5 GHz</td>
<td>8MB</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Graphics

Intel UHD Graphics 620 in processor only or Intel UHD Graphics 620 in processor and AMD Radeon RX 540X Graphics, 2GB DDR5 memory; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@24Hz (HDMI)

### Chipset

Intel SoC (System on Chip) platform

### Memory

32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

### Display

<table>
<thead>
<tr>
<th>Size / Resolution</th>
<th>Surface</th>
<th>Type</th>
<th>Brightness</th>
<th>Aspect Ratio</th>
<th>Contrast Ratio</th>
<th>Viewing Angle</th>
<th>Multi-touch</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.0&quot; FHD (1920x1080)</td>
<td>Anti-glare</td>
<td>TN</td>
<td>220 nits</td>
<td>16:9</td>
<td>400:1</td>
<td>90°</td>
<td>Non-touch</td>
</tr>
<tr>
<td>14.0&quot; FHD (1920x1080)</td>
<td>Anti-glare</td>
<td>IPS</td>
<td>250 nits</td>
<td>16:9</td>
<td>600:1</td>
<td>170°</td>
<td>Non-touch</td>
</tr>
</tbody>
</table>

### Storage

One of the following, configurable by model:
- M.2 2280 SSD / SATA 6.0Gb/s
- M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2

### Optane™ memory

None

### Ethernet

Gigabit Ethernet Connection, Realtek R8111GUS

### WLAN + Bluetooth™

One of the following, configurable by model:
- Realtek RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.2, M.2 card
- Intel Wireless-AC 9260, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card

### WWAN

None

### Dimensions

WxDxH: 12.96" x 9.13" x 0.70"; 329mm x 232mm x 17.9mm

### Weight

Starting at 3.68 lb / 1.67 kg

### Case color

Black or silver

### Case material

Aluminum

### Smart card reader

None

### Media reader

MicroSD card reader

### Ports

One USB 2.0, two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 2 (with the power of Power Delivery and DisplayPort), HDMI 1.4b, Ethernet (RJ-45), headphone / microphone combo jack, microSD card reader, security keyhole

### Camera

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

### Audio support

HD Audio, Conexant CX11880 codec / stereo speakers, 2W x 2, Dolby Audio™ Premium / dual array microphone, headphone / microphone combo jack

### Keyboard

6-row, spill-resistant, multimedia Fn keys, optional LED backlight

### Security chip

Integrated model: discrete TPM 2.0, TCG Certified

### Security

Power-on password, hard disk password, supervisor password, security keyhole

### System Mgt

Integrated model:
- discrete TPM 2.0, TCG Certified
- firmware TPM 2.0 integrated in chipset

### Battery

Integrated Li-ion 42Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

Max battery life

MobileMark® 2014: 11.5 hr

* Battery life varies significantly with settings, usage, & other factors

### AC adapter

45W or 65W USB Type-C AC adapter

### Preload (optional)

Windows® 10 Home 64 or Windows 10 Pro 64

### Limited warranty

1-year depot repair service

### Mil-Spec test

MIL-STD-810G military certification

### Environment

EPEAT™ Bronze; ENERGY STAR® 7.0; RoHS-compliant

Note: The specifications above may not be available in all regions.
### ThinkPad E495 Platform Specifications

#### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Controller</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ryzen 3 3200U</td>
<td>2</td>
<td>4</td>
<td>2.6 GHz</td>
<td>3.5 GHz</td>
<td>1MB L2 / 4MB L3</td>
<td>DDR4-2400</td>
<td>Radeon Vega 3 Graphics</td>
</tr>
<tr>
<td>Ryzen 5 3500U</td>
<td>4</td>
<td>8</td>
<td>2.1 GHz</td>
<td>3.7 GHz</td>
<td>2MB L2 / 4MB L3</td>
<td>DDR4-2400</td>
<td>Radeon Vega 8 Graphics</td>
</tr>
<tr>
<td>Ryzen 7 3700U</td>
<td>8</td>
<td>16</td>
<td>2.3 GHz</td>
<td>4.0 GHz</td>
<td>2MB L2 / 4MB L3</td>
<td>DDR4-2400</td>
<td>Radeon RX Vega 10 Graphics</td>
</tr>
</tbody>
</table>

#### Graphics

- AMD Radeon Vega 3, Vega 8, or RX Vega 10 Graphics in processor;
- Supports external digital monitor via HDMI or USB Type-C;
- Supports dual independent display;
- Max resolution: 3840x2160@60Hz (USB Type-C); 3840x2160@30Hz (HDMI)

#### Chipset

- AMD SoC (System on Chip) platform
- 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

#### Memory

- *Installed memory is actually 2666MHz but run at 2400MHz due to Intel limitation*

#### Display

- **Size / Resolution**
  - 14.0” HD (1366x768) Anti-glare TN 220 nits 16:9 400:1 90° Non-touch
  - 14.0” FHD (1920x1080) Anti-glare IPS 250 nits 16:9 600:1 170° Non-touch

#### Multi-touch

- None

#### Storage

- Up to two drives (one M.2 SSD and one HDD)
- *HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
- *M.2 SSD / PCIe NVMe, PCIe 3.0 x 2 or PCIe 3.0 x 4

#### Optane™ memory

- None

#### Optical

- None

#### Ethernet

- Gigabit Ethernet Connection, Realtek R8111GUS

#### WLAN + Bluetooth™

- One of the following, configurable by model:
  - *Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.2, M.2 card*
  - *Intel Wireless-AC 9260, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card*

#### WWAN

- None

#### Dimensions

- **Aluminum (WxDxH):** 12.96” x 9.53” x 0.78”; 329mm x 242mm x 19.9mm
- **Weight:** Starting at 3.87 lb / 1.75 kg

#### Smart card reader

- None

#### Camera

- HD720p camera, fixed focus

#### Audio support

- HD Audio, Conexant® CX11880 codec / stereo speakers, 1.5W x 2, Dolby® Advanced Audio / dual array microphone, headphone / microphone combo jack

#### Security chip

- Discrete TPM 2.0, TCG Certified

#### Fingerprint reader

- None

#### Battery

- Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

#### Max battery life

- *Battery life varies significantly with settings, usage, & other factors

#### AC adapter

- 45W or 65W USB Type-C AC adapter

#### Preload (optional)

- Windows® 10 Home 64 or Windows 10 Pro 64

#### Limited warranty

- 1-year depot repair service

#### Environment

- EPEAT™ Bronze; ENERGY STAR® 7.0; RoHS-compliant

---

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

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*Lenovo April 2019*
**ThinkPad E580 Platform Specifications**

**Processor**

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i3-7020U</td>
<td>2</td>
<td>4</td>
<td>2.3 GHz</td>
<td>-</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>i3-7130U</td>
<td>2</td>
<td>4</td>
<td>2.7 GHz</td>
<td>-</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>i5-7200U</td>
<td>4</td>
<td>8</td>
<td>2.5 GHz</td>
<td>3.1 GHz</td>
<td>8MB</td>
<td>DDR4-2133</td>
<td>Intel UHD Graphics 620</td>
</tr>
</tbody>
</table>

**8th Generation Intel Core i3 / i5 / i7 Processor**

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i3-8130U</td>
<td>2</td>
<td>4</td>
<td>2.2 GHz</td>
<td>3.4 GHz</td>
<td>4MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>i5-8250U</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>3.4 GHz</td>
<td>6MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
</tbody>
</table>

* i3-7130U is NOT available in US and EMEA

**Graphics**

Intel HD Graphics 620 or Intel UHD Graphics 620 in processor only or Intel HD Graphics 620 or Intel UHD Graphics 620 in processor and AMD Radeon RX 550 Graphics, 2GB DDR5 memory;

supports external digital monitor via HDMI or USB Type-C;
supports dual independent display;

Max resolution: 1920x1080 (HDMI)@60Hz

**Chipset**

Intel SoC (System on Chip) platform

32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

* System clocks down for processors with lower memory controller

**Memory**

DDDR4-2400

**Display**

Some: 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio

Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio

**Multi-touch**

None

**Storage**

Up to 2 drives (one M.2 SSD and one HDD)

Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™

Some: M.2 SSD / PCIe NVMe

**Optical**

None

**Ethernet**

Gigabit Ethernet Connection, Realtek R8111GUS

**Audio support**

HD Audio, Conexant CX11852 codec / Advanced Audio

 userService

**Camera**

HD720p camera, fixed focus

**Keyboard**

6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

**Multi-touch**

None

**Security**

Power-on password, hard disk password, supervisor password, security keyhole

Firmware TPM 2.0 integrated in chipset or discrete TPM 2.0 TCG Certified

**Battery**

Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

Max battery life

MobileMark 2014: 12.23 hr

* Battery life varies significantly with settings, usage, & other factors

**AC adapter**

45W or 65W USB Type-C AC adapter

**Preload (optional)**

Windows® 10 Home 64 or Windows 10 Pro 64

**Limited warranty**

1-year depot repair service

**Mil-Spec test**

MIL-STD-810G military certification

**Environment**

EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

Note: The specifications above may not be available in all regions.
## ThinkPad E585 Platform Specifications

**Product Specifications Reference (PSREF)**

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

### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Controller</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ryzen 3 2200U</td>
<td>2</td>
<td>4</td>
<td>2.5 GHz</td>
<td>3.4 GHz</td>
<td>1MB L2 / 4MB L3</td>
<td>DDR4-2400</td>
<td>Radeon Vega 3 Graphics</td>
</tr>
<tr>
<td>Ryzen 5 2500U</td>
<td>4</td>
<td>8</td>
<td>2.0 GHz</td>
<td>3.6 GHz</td>
<td>2MB L2 / 4MB L3</td>
<td>DDR4-2400</td>
<td>Radeon Vega 8 Graphics</td>
</tr>
<tr>
<td>Ryzen 7 2700U</td>
<td>8</td>
<td>16</td>
<td>2.2 GHz</td>
<td>3.8 GHz</td>
<td>2MB L2 / 4MB L3</td>
<td>DDR4-2400</td>
<td>Radeon RX Vega 10 Graphics</td>
</tr>
</tbody>
</table>

### Graphics

- AMD Radeon Vega 3, Vega 8, or RX Vega 10 Graphics in processor only;
- Supports external digital monitor via HDMI or USB Type-C;
- Supports dual independent display;
- Max resolution: 1920x1080 (HDMI)@60Hz

### Chipset

- AMD SoC (System on Chip) platform
- 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

### Display

- **Some:** 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio (NOT available in EMEA)
- **Some:** 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio

### Multi-touch

- None

### Storage

- Up to 2 drives (one M.2 SSD and one HDD)
- **Some:** HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™
- **Some:** M.2 SSD / PCIe NVMe
- None

### Optical

- Gigabit Ethernet Connection, Realtek RTL8111GUS

### WLAN + Bluetooth™

- One of the following, configurable by model:
  - Qualcomm QCNFA435, Wi-Fi 1x1 802.11ac + Bluetooth 4.1, M.2 card
  - Realtek® RTL8821CE, Wi-Fi 1x1 802.11ac + Bluetooth 4.1, M.2 card
  - Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card

### WWAN

- None

### SIM card

- None

### Dimensions

- **WxDxH:** 14.53" x 9.92" x 0.79";
- 369mm x 252mm x 19.95mm

### Weight

- Starting at 4.7 lb / 2.1kg

### Case color

- Black

### Case material

- **Display cover:** Aluminum;
- **Bottom:** PC/ABS plastic

### Smart card reader

- None

### Media reader

- MicroSD card reader

### Ports

- One USB 2.0, two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 2 (with the function of Power Delivery and DisplayPort), HDMI 1.4b, Ethernet (RJ-45), headphone / microphone combo jack, microSD card reader, security keyhole

### Camera

- HD720p camera, fixed focus
- HD Audio, Conexant® CX11852 codec / stereo speakers, 1.5W x 2, Dolby® Advanced Audio / dual array microphone, headphone / microphone combo jack

### Audio support

- UltraNav™ 6-row, spill-resistant, multimedia Fn keys
- TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

### Security

- Power-on password, hard disk password, supervisor password, security keyhole
- Discrete TPM 2.0, TCG Certified

### Security chip

- Fingerprint reader

### Battery

- Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- AC adapter
  - 45W or 65W USB Type-C AC adapter

### Preload (optional)

- Windows® 10 Home 64 or Windows 10 Pro 64

### Limited warranty

- 1-year depot repair service

### Mil-Spec test

- None

### Environment

- EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

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Lenovo
April 2019
### ThinkPad E590 Platform Specifications

**Product Specifications Reference (PSREF)**

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

<table>
<thead>
<tr>
<th>Processor</th>
<th>8th Generation Intel® Core™ i3 / i5 / i7 Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor Number</td>
<td># of Cores</td>
</tr>
<tr>
<td>3-8145U</td>
<td>2</td>
</tr>
<tr>
<td>5-8265U</td>
<td>4</td>
</tr>
<tr>
<td>7-8565U</td>
<td>4</td>
</tr>
</tbody>
</table>

**Graphics**
- Intel UHD Graphics 620 in processor only or Intel UHD Graphics 620 in processor and AMD Radeon RX 550X Graphics, 2GB DDR5 memory;
- supports external digital monitor via HDMI or USB Type-C;
- supports dual independent display;
- Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@24Hz (HDMI)

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

**Memory**
- 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets
- *Installed memory is actually 2666MHz but run at 2400MHz due to Intel limitation

**Display**
- Size / Resolution: 15.6" HD (1366x768) Anti-glare TN 220 nits 16:9 400:1 90°
- 15.6" FHD (1920x1080) Anti-glare IPS 250 nits 16:9 600:1 170°

**Multi-touch**
- None

**Storage**
- Up to two drives (one M.2 SSD and one HDD)
- *HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
- *M.2 SSD / SATA 6.0Gb/s
- *M.2 SSD / PCIe NVMe, PCIe 3.0 x 2
- *Optane™ memory:
  - Optional: Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2

**Optane™ memory**
- Optional: Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2

**Optical**
- None

**Ethernet**
- Gigabit Ethernet Connection, Realtek R8111GUS

**WLAN + Bluetooth™**
- One of the following, configurable by model:
  - Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.2, M.2 card
  - Intel Wireless-AC 9260, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card

**WWAN**
- None

### Processor Specifications

| Dimensions | WxDxH: 14.53" x 9.94" x 0.78"; 369mm x 252.5mm x 19.9mm |
| Weight | Starting at 4.68 lb / 2.12 kg |
| Case color | Black or silver |
| Case material | Display cover: Aluminum; Bottom: PC/ABS plastic |
| Smart card reader | None |
| Media reader | MicroSD card reader |
| Ports | One USB 2.0, two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 2 (with the function of Power Delivery and DisplayPort), HDMI 1.4b, Ethernet (RJ-45), headphone / microphone combo jack, microSD card reader, security keyhole
| Monitor cable | None |
| Camera | HD720p camera, fixed focus |
| Audio support | HD Audio, Conexant™ CX11880 codec / stereo speakers, 2W x 2, Dolby® Advanced Audio / dual array microphone, headphone / microphone combo jack |
| Keyboard | UltraNav™ 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad |
| Security chip | Power-on password, hard disk password, supervisor password, security keyhole
| Security chip model | Integrated model: discrete TPM 2.0, TCG Certified
| Security chip model | Discrete model: firmware TPM 2.0 integrated in chipset
| System Mgt | None |
| Fingerprint reader | Optional: Touch style fingerprint reader on the palm rest
| NFC | None |
| Battery | Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter
| Max battery life | MobileMark® 2014: 11 hr
| AC adapter | 45W or 65W USB Type-C AC adapter
| Preload (optional) Windows® 10 Home 64 or Windows 10 Pro 64 |
| Limited warranty | 1-year depot repair service |
| Mil-Spec test | MIL-STD-810G military certification |
| Environment | EPEAT™ Bronze; ENERGY STAR® 7.0; RoHS-compliant |

Lenovo

May 2019
## ThinkPad E595 Platform Specifications

<table>
<thead>
<tr>
<th>Processor</th>
<th>AMD Ryzen™ Mobile Processors with Radeon™ Vega Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor Number</td>
<td># of Cores</td>
</tr>
<tr>
<td>Ryzen 3 3200U</td>
<td>2</td>
</tr>
<tr>
<td>Ryzen 5 3500U</td>
<td>4</td>
</tr>
<tr>
<td>Ryzen 7 3700U</td>
<td>8</td>
</tr>
</tbody>
</table>

### Graphics
AMD Radeon Vega 3, Vega 8, or RX Vega 10 Graphics in processor; supports external digital monitor via HDMI or USB Type-C; supports dual independent display; Max resolution: 3840x2160@60Hz (USB Type-C); 3840x2160@30Hz (HDMI)

### Chipset
AMD SoC (System on Chip) platform

### Memory
32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets * Installed memory is actually 2866MHz but run at 2400MHz due to Intel limitation

### Display
- Size / Resolution: 15.6" HD (1366x768) Anti-glare TN 220 nits 16:9 400:1 90° Non-touch
- Multi-touch: None

### Storage
Up to two drives (one M.2 SSD and one HDD)
- HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 2 or PCIe 3.0 x 4

### Security
- Security chip: Discrete TPM 2.0, TCG Certified
- Security keyhole: None
- Fingerprint reader: None
- NFC: None

### Battery
Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

### Preload (optional)
Windows® 10 Home 64 or Windows 10 Pro 64

### Limited warranty
1-year depot repair service

### Environment
- EPEAT™ Bronze; ENERGY STAR® 7.0; RoHS-compliant

### Note:
The specifications above may not be available in all regions.
## ThinkPad L380 Platform Specifications

**Product Specifications Reference (PSREF)**

<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Celeron® Processor, 7th Generation Intel Core™ i3 / i5 Processor or</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number</strong></td>
<td><strong># of Cores</strong></td>
</tr>
<tr>
<td>Cel 3965U</td>
<td>2</td>
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<tr>
<td>i5-7200U</td>
<td>4</td>
</tr>
</tbody>
</table>

### 8th Generation Intel Core i5 / i7 Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Celeron® Processor, 7th Generation Intel Core™ i3 / i5 Processor or</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number</strong></td>
<td><strong># of Cores</strong></td>
</tr>
<tr>
<td>i3-8130U</td>
<td>2</td>
</tr>
<tr>
<td>i5-8250U</td>
<td>4</td>
</tr>
</tbody>
</table>

### Graphics

- Intel HD Graphics 610, 620 or Intel UHD Graphics 620 in processor; supports external digital monitor via HDMI or USB Type-C; supports three independent displays;
- Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

### Chipset

- Intel SoC (System on Chip) platform
- 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

### Display

- **Some:** 13.3" (338mm) HD (1366x768), anti-glare, LED backlight, 250 nits,16:9 aspect ratio, 500:1 contrast ratio
- **Some:** 13.3" (338mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 170° viewing angle
- **Some:** 13.3" (338mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 800:1 contrast ratio, 170° viewing angle

### Multi-touch (opt)

- on-cell touch, supports 10-finger gesture

### Storage

- One of the following, configurable by model:
  - M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2)
  - M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxGB SSD M.2 PCIe NVMe)

### Optane™ memory

- None

### Ethernet

- Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro)
- via optional ThinkPad Ethernet Extension Cable

### WLAN + Bluetooth™

- Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card

### WWAN

- None

### WWAN

- None

### Dimensions

- WxDxH: 12.67" x 8.83" x 0.74"; 321.8mm x 224.2mm x 18.8mm

### Weight

- Starting at 3.22 lb / 1.46 kg

### Case color

- Black or Silver

### Case material

- Aluminum

### Display cover

- GFRP

### Smart card reader

- None

### Media reader

- MicroSD card reader

### Ports

- Two USB 3.1 Gen 1 (one Always On), two USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort), HDMI 1.4b, Ethernet extension connector, headphone / microphone combo jack, microSD card reader, security keyhole

### Monitor cable

- *(optional)*

### Microsoft Windows

- Two USB-C to VGA: Lenovo USB-C to VGA Monitor Adapter
- USB-C to DP: Lenovo USB-C to DisplayPort Adapter

### Bundled Accy

- Optional: ThinkPad Ethernet Extension Cable

### Keyboard

- UltraNav™ pointing device and buttonless Mylar surface touchpad, multi-touch

### Security

- Power-on password, hard disk password, supervisor password, security keyhole
- Security chip
- Intel vPro Technology

### Fingerprint reader

- Optional: Touch style fingerprint reader on the keyboard bezel, anti-spoofing technology

### NFC

- *(optional)*

### Battery

- Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- 65W USB Type-C AC adapter

### AC adapter

- MobileMark 2014: 16.1 hr
- 45W or 65W USB Type-C AC adapter

### Preload

- Windows 10 Home 64 or Windows 10 Pro 64

### Limited warranty

- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1yr battery depot repair service
  - 3-year/1yr battery limited onsite service

### MIL-Spec test

- MIL-STD-810G military certification

### Environment

- EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

---

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

*Lenovo April 2019*
### ThinkPad L390 Platform Specifications

#### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i3-8145U</td>
<td>2</td>
<td>2.1 GHz</td>
<td>3.9 GHz</td>
<td>4MB</td>
<td>DDR4-2400</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>i5-8256U</td>
<td>4</td>
<td>1.6 GHz</td>
<td>3.9 GHz</td>
<td>6MB</td>
<td>DDR4-2400</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>i5-8365U</td>
<td>4</td>
<td>1.6 GHz</td>
<td>4.1 GHz</td>
<td>6MB</td>
<td>DDR4-2400</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>i7-8565U</td>
<td>4</td>
<td>1.8 GHz</td>
<td>4.6 GHz</td>
<td>8MB</td>
<td>DDR4-2400</td>
<td>Intel HD Graphics 620</td>
</tr>
</tbody>
</table>

#### Graphics
- Intel UHD Graphics 620 in processor;
- Supports external digital monitor via HDMI or USB Type-C;
- Supports three independent displays;
- Max resolution: 4096x2304 @ 60Hz (USB Type-C); 4096x2160 @ 30Hz (HDMI)

#### Chipset
- Intel SoC (System on Chip) platform
- 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

#### Display
- 13.3" HD (1366x768) Anti-glare TN 250 nits 16:9 500:1 90°
- 13.3" FHD (1920x1080) Anti-glare IPS 250 nits 16:9 700:1 (non-touch) 800:1 (multi-touch) 170°

#### Multi-touch (opt)
- On-cell touch, supports 10-finger gesture (FHD only)

#### Storage
- One of the following, configurable by model:
  - M.2 SSD / SATA 6.0Gb/s
  - M.2 (2242) SSD / PCIe NVMe, PCIe 3.0 x 2
  - M.2 (2280) SSD / PCIe NVMe, PCIe 3.0 x 4

#### Optane™ memory
- None

#### Optical
- None

#### Ethernet
- Native Intel Ethernet Connection i219-V (Non-vPro) or i219-LM (vPro) via optional ThinkPad Ethernet Extender Cable or Lenovo USB-C to Ethernet Adapter

#### WLAN
- Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card
- Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

#### WWAN
- None

#### Dimensions
- Width x Height x Depth: 12.67" x 8.83" x 0.74"; 321.88mm x 224.2mm x 18.8mm
- Weight: Starting at 3.22 lb / 1.46 kg
- Case color: Black or Silver
- Case material: Display cover: Aluminum, Bottom: GFRP

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

---

#### Security
- Power-on password, hard disk password, supervisor password, security keyhole

#### System Mgt
- None

#### Battery
- Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter
- 14.61 hr

#### AC adapter
- 45W or 65W USB Type-C AC adapter

#### Preload
- Windows® 10 Home 64 or Windows 10 Pro 64

#### Limited warranty
- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1-yr battery depot repair service
  - 3-year/1-yr battery limited onsite service

#### Mil-Spec test
- MIL-STD-810G military certification

#### Environment
- EPEAT™ Bronze; ENERGY STAR® 7.0; RoHS-compliant

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**Lenovo**

May 2019
### Processor Specifications

#### 6th Generation Intel® Core™ i3 / i5 / i7 Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i3-6006U</td>
<td>2</td>
<td>2.0 GHz</td>
<td>-</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 520</td>
</tr>
<tr>
<td>i3-6100U</td>
<td>2</td>
<td>2.3 GHz</td>
<td>-</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 520</td>
</tr>
<tr>
<td>i5-6200U</td>
<td>2</td>
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<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 520</td>
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<tr>
<td>i5-6300U</td>
<td>2</td>
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<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 520</td>
</tr>
</tbody>
</table>

#### Intel Celeron® Processor or 7th Generation Intel Core i3 / i5 / i7 Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
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<tbody>
<tr>
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<td>2MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 610</td>
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<tr>
<td>i3-7100U</td>
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<td>2.4 GHz</td>
<td>3.1 GHz</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>i5-7200U</td>
<td>2</td>
<td>2.4 GHz</td>
<td>3.5 GHz</td>
<td>4MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
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<tr>
<td>i5-7400U</td>
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<td>3.6 GHz</td>
<td>4MB</td>
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<tr>
<td>i7-7500U</td>
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<td>2.8 GHz</td>
<td>3.8 GHz</td>
<td>4MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
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<tr>
<td>i7-7800U</td>
<td>8</td>
<td>2.8 GHz</td>
<td>3.9 GHz</td>
<td>4MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
</tbody>
</table>

* i7 processor is NOT available in EMEA

### Graphics

- Intel HD Graphics 610 in HD6 / 620 in processor only, or Intel HD Graphics 620 in processor and AMD Radeon™ R5 M430, 2GB memory; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)

### Chipset

- Intel SoC (System on Chip) platform
- 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

### Display

- Some: 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 170° viewing angle
- Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle

### Multi-touch

- None

### Storage

- System has one HDD slot or one M.2 2280 slot exclusive for storage
- Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™
- Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high (e.g. xxxGB SSD)
- Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s
- Some: 128GB M.2 SSD / SATA 6.0Gb/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN

### Optical

- None

### Ethernet

- Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
- vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

### WLAN

- One of the following, configurable by model:
  - Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
  - Intel Dual Band Wireless-AC 8260, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
  - Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
  - Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter * Intel 8260ac / 8265ac card support BT4.2 but is limited to BT4.1 by Windows OS

### Bluetooth

- One of the following, configurable by model:
  - Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
  - Intel Dual Band Wireless-AC 8260, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
  - Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
  - Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter * Intel 8260ac / 8265ac card support BT4.2 but is limited to BT4.1 by Windows OS

### WWAN (optional)

One of the following, configurable by model:
- Wireless WAN upgradable
- Integrated Mobile Broadband 4G LTE-A
- Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455), M.2 card
- Integrated Mobile Broadband 4G LTE
- Intel XMM™ 7160 (Fibocom L831-EAU), M.2 card (EMEA only)

### SIM card (optional)

- Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card

### Dimensions

- WxDxH: 13.35" x 9.25" x 0.94"; 339mm x 235mm x 23.9mm

### Weight

<table>
<thead>
<tr>
<th>Models</th>
<th>3-cell</th>
<th>6-cell</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Integrated</td>
<td>3.4 lb / 1.54 kg</td>
<td>4.45 lb / 2.02 kg</td>
</tr>
<tr>
<td>Discrete</td>
<td>3.4 lb / 1.54 kg</td>
<td>4.48 lb / 2.03 kg</td>
</tr>
</tbody>
</table>

### Camera (optional)

- HD 720p resolution, fixed focus

### Audio support

- HD Audio, Realtek ALC268 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

### Security

- UltraNav™
  - 6-row, spill-resistant, multimedia Fn keys
  - TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad
- Security chip
  - vPro (optional)
  - Fingerprint reader
  - Optional: Swipe style fingerprint reader on the keyboard bezel

### Battery

- Li-ion 3-cell (24Wh) or 6-cell (48Wh or 72Wh)

### Max battery life

<table>
<thead>
<tr>
<th>Models</th>
<th>3-cell</th>
<th>6-cell 24Wh</th>
<th>6-cell 72Wh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max battery</td>
<td>4.13 hr</td>
<td>8.68 hr</td>
<td>13.02 hr</td>
</tr>
<tr>
<td>life</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### AC adapter

- 45W or 65W slim tip AC adapter

### Preload

- Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo PowerEngage
- ThinkVantage System Update
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® LiveSafe® (30-day trial)

### Limited warranty

One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service

### Mil-Spec test

- MIL-STD-810G military certification

### Environment

- EPEAT® Gold (US only); ENERGY STAR® 6.1; RoHS-compliant
## ThinkPad L480 Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i3-7130U</td>
<td>2</td>
<td>4</td>
<td>2.7 GHz</td>
<td>-</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>i5-7200U</td>
<td>4</td>
<td>8</td>
<td>2.5 GHz</td>
<td>3.1 GHz</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>i5-7300U</td>
<td>4</td>
<td>8</td>
<td>2.5 GHz</td>
<td>3.9 GHz</td>
<td>8MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
</tbody>
</table>

* i3-7130U is NOT available in US and EMEA

### Graphics

- Intel HD Graphics 620 or Intel UHD Graphics 620 in processor only or Intel HD Graphics 620 or Intel UHD Graphics 620 in processor and AMD Radeon 530, 2GB GDDR5 memory (discrete models are NOT available in EMEA);
- supports external digital monitor via HDMI or USB Type-C;
- supports three independent displays;
- Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

### Chipset

- Intel SoC (System on Chip) platform
- 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

### Display

- On-cell touch, supports 10-finger gesture (FHD only)
- Display: Some: 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
- Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 800:1 contrast ratio, 170° viewing angle

### Storage

- System has one SSD slot or M.2 2280 slot exclusively for storage
- Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
- Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s
- in WWAN slot as 2nd Storage, mutually exclusive with WWAN

### Optical

- None

### Ethernet

- Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
- vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

### WLAN + Bluetooth™ (optional)

- One of the following, configurable by model:
  - **Realtek® RTL8822BE**, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card (US only)
  - **Intel Dual Band Wireless-AC 8265**, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
  - **Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS**

### WWAN (optional)

- One of the following, configurable by model:
  - Integrated Mobile Broadband 4G LTE, Intel XMM™ 7262 (Fibocom L830-EB), M.2 card (EMEA only)
  - Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card
  - For non-WWAN model, it means the model is NOT WWAN upgradable

### SIM card (optional)

- Nano-SIM card slot, optional Verizon LTE (US) SIM card

### Dimensions

- WxDxH: 13.19" x 9.25" x 0.89"; 335mm x 235mm x 22.5mm

### Weight

- Starting at 3.71 lb / 1.68 kg

### Case color

- Black

### Case material

- PC/ABS plastic

### Smart card reader

- Optional: Smart card reader

### Media reader

- MicroSD card reader

### Ports

- Two USB 3.1 Gen 1 (one Always On), two USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort), HDMI 1.4b, Ethernet (RJ-45), nano-SIM card slot (WWAN models), headphone / microphone combo jack, optional smart card reader, microSD card reader, side docking connector, security keyhole

### Monitor cable

- HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
- USB-C to VGA: Lenovo USB-C to VGA Adapter

### Camera

- One of the following, configurable by model:
  - HD720p camera, fixed focus
  - HD Audio, Realtek ALC3287 codec, stereo speakers, 2W x 2, Dolby® Audio™ / dual array microphone, headphone / microphone combo jack

### Audio support

- Power-on password, hard disk password, supervisor password, security keyhole
- Security chip: Discrete TPM 2.0, TCG Certified
- Fingerprint reader: Optional: Touch style match on chip fingerprint reader on the keyboard bezel, anti-spoofing technology
- NFC (optional): Near Field Communication

### Battery

- Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

### Max battery life

- MobileMark® 2014: 12.2 hr

### AC adapter

- Battery life varies significantly with settings, usage, & other factors
- 45W or 65W USB Type-C AC adapter

### Preload

- Windows® 10 Home 64 or Windows 10 Pro 64

### Limited warranty

- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1-yr battery depot repair service
  - 3-year/1-yr battery limited onsite service

### Mil-Spec test

- MIL-STD-810G military certification

### Environment

- EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

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

Lenovo

April 2019
Processor 6th Generation Intel® Core™ i3 / i5 / i7 Processor or

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
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<tbody>
<tr>
<td>i3-6006U</td>
<td>2</td>
<td>2.0 GHz</td>
<td>-</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 520</td>
</tr>
<tr>
<td>i3-6100U</td>
<td>2</td>
<td>2.3 GHz</td>
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<td>3MB</td>
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<td>Intel HD Graphics 520</td>
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<tr>
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<td>2.6 GHz</td>
<td>3.4 GHz</td>
<td>4MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 520</td>
</tr>
</tbody>
</table>

Intel Celeron® Processor or 7th Generation Intel Core i3 / i5 / i7 Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th>Base Frequency</th>
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<th>Memory Types</th>
<th>Processor Graphics</th>
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<td>3-7100U</td>
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<td>-</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 610</td>
</tr>
<tr>
<td>5-7200U</td>
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<td>2.5 GHz</td>
<td>3.1 GHz</td>
<td>3MB</td>
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<td>4</td>
<td>2.8 GHz</td>
<td>3.9 GHz</td>
<td>4MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 610</td>
</tr>
</tbody>
</table>

**WWAN (optional)**
- One of the following, configurable by model:
  - Wireless WAN upgradable
  - Integrated Mobile Broadband 4G LTE-A
  - Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455), M.2 card
  - Integrated Mobile Broadband 4G LTE
  - Intel XMM™ 7160 (Fibocom L831-EAU), M.2 card (EMEA only)

**SIM card (opt)**
- Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card

**Dimensions**
- WxDxH: 14.84" x 10.04" x 1.21-1.81; 377mm x 255mm x 27.6-30.85mm

**Weight**
- Starting at 5.25 lb / 2.38 kg

**Case color**
- Black

**Case material**
- PC/ABS plastic

**ExpressCard (opt)**
- One slot (ExpressCard/34)

**Smart card reader**
- Optional, Smart card reader

**Media reader**
- 4-in-1 reader (MMC, SD, SDHC, SDXC)

**Ports**
- Four USB 3.0 Gen 1 (USB 3.0, one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

**Monitor cable**
- Depending on many factors, actual data transfer speed may be lower than theoretical speed
  - Optional: Lenovo Mini-DisplayPort to DisplayPort Monitor Cable (MiniDP to DP)

**Camera (optional)**
- HD720p resolution, fixed focus
  - Audio support: HD Audio, Realtek® ALC3245 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack

**Keyboard**
- 6-row, spill-resistant, multimedia Fn keys, numeric keypad

**UltraNav™**
- TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

**Security**
- Power-on password, hard disk password, supervisor password, security keyhole
  - Discrete TPM 2.0, TC/TG Certified
  - Intel vPro Technology

**Fingerprint reader**
- Optional: Swipe style fingerprint reader on the palm rest
  - NFC: None

**Battery**
- Lithium 6-cell (48Wh)

**Max battery life**
- MobileMark® 2014: 14.8 hr

**AC adapter**
- 45W slim tip AC adapter

**Preload**
- Windows® 7 Professional 64 preinstalled
  - Some: Windows 10 Home 64
  - Lenovo Companion
  - Lenovo Setting
  - Windows 10 Pro 64
  - Microsoft Office preloaded; purchase a product key to activate

**Optical (optional)**
- DVD-ROM or DVD burner, 9mm high, fixed, not removable, tray-in

**Ethernet**
- Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
  - vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

**WLAN**
- One of the following, configurable by model:
  - Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card (US only)
  - Intel Dual Band Wireless-AC 8260, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
  - Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
  - Bluetooth® 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

**Bluetooth**
- * Intel 8260ac / 8265ac card support BT4.2 but is limited to BT4.1 by Windows OS

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

Lenovo
September 2018
ThinkPad L580 Platform Specifications

**Processor**

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cel 3965U</td>
<td>2</td>
<td>2.2 GHz</td>
<td>2.9 GHz</td>
<td>2 MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 610</td>
</tr>
<tr>
<td>i3-7130U</td>
<td>4</td>
<td>2.7 GHz</td>
<td>3.7 GHz</td>
<td>3 MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>i5-7260U</td>
<td>4</td>
<td>2.6 GHz</td>
<td>4.0 GHz</td>
<td>3 MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>i7-8550U</td>
<td>4</td>
<td>1.8 GHz</td>
<td>4.0 GHz</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
</tbody>
</table>

*Note: The specifications above may not be available in all regions. Lenovo April 2019

**Graphics**

Intel HD Graphics 610, 620 or Intel UHD Graphics 620 in processor only or Intel HD Graphics 620 or Intel UHD Graphics 620 processor in processor and AMD Radeon 530, 2GB GDDR5 memory (discrete models are NOT available in EMEA); supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

**Chipset**

Intel SoC (System on Chip) platform

*System clocks down for processors with lower memory controller

**Display**

Some: 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 170° viewing angle

Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 800:1 contrast ratio, 170° viewing angle

**Multi-touch**

None

**Storage**

System has one HDD slot or one M.2 2280 slot exclusively for storage

Some: HDD / SATA 6.0Gbps, 2.5" wide, 7mm high, Active Protection System™

Some: SSD / SATA 6.0Gbps, 2.5" wide, 7mm high (e.g. xxxGB SSD)

Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s

Some: 128GB M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN

**Optical**

None

**Ethernet**

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)

vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

**WLAN + Bluetooth™ (optional)**

One of the following, configurable by model:

- Realtek RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card (US only)
- Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1. M.2 card

* Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS

**WWAN (optional)**

One of the following, configurable by model:

- Integrated Mobile Broadband 4G LTE, Intel XMM™ 7262 (Fibocom L830-EB), M.2 card (EMEA only)
- Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card

* For non-WWAN model, it means the model is NOT WWAN upgradable

**SIM card (opt)**

Nano-SIM card slot, optional Verizon LTE (US) SIM card

**Dimensions**

Weight: 14.82" x 10.02" x 0.90"; 376.5mm x 254.5mm x 22.95mm

Starting at 4.46 lb / 2.0 kg

**Case color**

Black

**Case material**

PC/ABS plastic

**Ensure**

Add: (optional)

- Smart card reader
- Media reader
- Media reader
- Ports
- Monitor cable
- Camera (optional)
- Audio support
- Keyboard
- Security
- Security chip
- Fingerprint reader
- NFC (optional)
- Battery
- Max battery life
- AC adapter
- Preload
- Limited warranty

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

Lenovo April 2019
### ThinkPad P1 Platform Specifications

**Processor**

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-8400H</td>
<td>2</td>
<td>4</td>
<td>2.4 GHz</td>
<td>4.2 GHz</td>
<td>8 MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>T-8750H</td>
<td>4</td>
<td>8</td>
<td>2.2 GHz</td>
<td>4.1 GHz</td>
<td>9 MB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T-8850H</td>
<td>6</td>
<td>12</td>
<td>2.6 GHz</td>
<td>4.3 GHz</td>
<td>9 MB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-2176M</td>
<td>2</td>
<td>4</td>
<td>2.7 GHz</td>
<td>4.4 GHz</td>
<td>12 MB</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Graphics**

- Intel UHD Graphics 630 in processor and NVIDIA Quadro P1000 or P2000, 4GB GDDR5 memory;
- supports external digital monitor via HDMI or Thunderbolt™;
- supports four independent displays;
- Max resolution: 5120x2880@30Hz (Thunderbolt); 4096x2160@60Hz (HDMI)

**Chipset Memory**

- Mobile Intel CM246 Chipset;
- 64GB max / 2666MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, two DDR4 SO-DIMM sockets

**Display**

- Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle;
- Some: 15.6" (396mm) UHD (3840x2160), anti-glare, LED backlight, IPS, 400 nits, 16:9 aspect ratio, 1200:1 contrast ratio, 100% gamut, 170° viewing angle, multi-touch, anti-reflection (AR);
- Capacitive-type multi-touch, supports 10-finger gesture (4K only)

**Multi-touch (opt) Pen**

- Supports pen accessory, please see the accessory compatibility for details

**Storage**

- Up to 2 drives (two M.2 SSD)
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

**Optane™ memory RAID (optional)**

- None for 0/1 support
- Optical: None

**Ethernet**

- Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via bundled or optional ThinkPad Ethernet Extension Cable

**WLAN**

- Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card
- Bluetooth 5.0, integrated in WLAN + Bluetooth combo adapter

**WWAN**

- None

**Dimensions**

- WXxHxD (non-touch): 14.24" x 9.67" x 0.72";
- 361.8mm x 245.7mm x 18.4mm
- WXxHxD (multi-touch): 14.24" x 9.67" x 0.74";
- 361.8mm x 245.7mm x 18.7mm

**Weight**

- Non-touch model: starting at 3.76 lb (1.7 kg);
- Multi-touch model: starting at 4.06 lb (1.8 kg)

**Case color**

- Black

**Case material**

- Display cover: CFRP/GFRP hybrid;
- Bottom: Aluminum alloy

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

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**Smart card reader**

- Optional: Smart card reader

**ExpressCard**

- None

**Media reader**

- SD Card reader (SD, SDHC, SDXC), supports UHS-II SD card
- Two USB 3.1 Gen 1 (one Always On), two USB Type-C / Thunderbolt 3 (with the function of Power Delivery and DP), HDMI 2.0, Ethernet extension connector, headphone / microphone combo jack, optional smart card reader, 4-in-1 reader (MMC, SD, SDHC, SDXC), security keyhole
- * Power Delivery only supports power-out for charging peripherals
- * Depending on many factors, actual data transfer speed may be lower than theoretical speed
- * HDD to VGA: Lenovo HDMI to VGA Monitor Adapter
- USB-C to DP: Lenovo USB-C to DisplayPort Adapter

**Monitor cable (optional)**

- None

**Bundled Accy**

- One of the following, configurable by model:
- Audio support
  - HD720p camera with ThinkShutter camera privacy, fixed focus
  - IR camera and HD720p camera, fixed focus
  - HD Audio, Realtek® ALC3286 codec / stereo speakers, 2x2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo jack, Dolby Atmos® headphone
- Keyboard
  - 6-row, spill-resistant, multimedia Fn keys, LED backlight
  - TrackPoint® pointing device and buttonless glass surface multi-touch touchpad
- Security
  - Power-on password, hard disk password, supervisor password, security keyhole
  - Discrete TPM 2.0, TCG Certified
  - Intel vPro Technology
- Fingerprint reader
  - Touch style match on chip fingerprint reader on the keyboard bezel
  - None
  - Color calibration
- NFC
  - None

**Battery**

- Integrated Li-ion 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
  - Max battery life (MobileMark 2014): 7.36 hr;
  - Hybrid mode: 13.87 hr
  - * Battery life varies significantly with settings, usage, & other factors
  - AC adapter: 135W slim tip AC adapter

**Preload**

- One of the following, configurable by model:
  - Windows® 10 Home 64
  - Windows® 10 Pro 64
  - Windows® 10 Pro 64 for Workstations

**Limited warranty**

- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1-yr battery depot repair service
  - 3-year/1-yr battery limited onsite service

**Mil-Spec test**

- MIL-STD-810G military certification

**Environment**

- EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant

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*Lenovo April 2019*
## ThinkPad P51 Platform Specifications

**Product Specifications Reference (PSREF)**

### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i7-6620HQ</td>
<td>4</td>
<td>8</td>
<td>2.7 GHz</td>
<td>3.6 GHz</td>
<td>8MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 530</td>
</tr>
<tr>
<td>E3-1505M v6</td>
<td>4</td>
<td>8</td>
<td>2.8 GHz</td>
<td>3.7 GHz</td>
<td>6MB</td>
<td>DDR4-2400</td>
<td>Intel HD Graphics 630</td>
</tr>
<tr>
<td>i7-7700HQ</td>
<td>4</td>
<td>8</td>
<td>2.8 GHz</td>
<td>3.8 GHz</td>
<td>6MB</td>
<td>DDR4-2400</td>
<td>Intel HD Graphics 630</td>
</tr>
<tr>
<td>E3-1535M v6</td>
<td>4</td>
<td>8</td>
<td>3.0 GHz</td>
<td>4.0 GHz</td>
<td>8MB</td>
<td>DDR4-2400</td>
<td>Intel HD Graphics 630</td>
</tr>
</tbody>
</table>

**Note:** The specifications above may not be available in all regions. Lenovo September 2018

### Graphics

- Intel HD Graphics 530, 630, P530, or P630 in processor and NVIDIA Quadro M1200 or M2200, 4GB memory; supports external digital monitor via HDMI, Mini DisplayPort, or Thunderbolt; supports four independent displays; Max resolution: 3840x2160 @ 60 Hz (DisplayPort via Mini DisplayPort cable);
- Intel HD Graphics 530, 630, P530, or P630 in processor and NVIDIA Quadro M1200 or M2200, 4GB memory; supports external digital monitor via HDMI, Mini DisplayPort, or Thunderbolt; supports four independent displays; Max resolution: 3840x2160 @ 60 Hz (DisplayPort via Mini DisplayPort cable);
- Intel HD Graphics 530, 630, P530, or P630 in processor and NVIDIA Quadro M1200 or M2200, 4GB memory; supports external digital monitor via HDMI, Mini DisplayPort, or Thunderbolt; supports four independent displays; Max resolution: 3840x2160 @ 60 Hz (DisplayPort via Mini DisplayPort cable);
- Intel HD Graphics 530, 630, P530, or P630 in processor and NVIDIA Quadro M1200 or M2200, 4GB memory; supports external digital monitor via HDMI, Mini DisplayPort, or Thunderbolt; supports four independent displays; Max resolution: 3840x2160 @ 60 Hz (DisplayPort via Mini DisplayPort cable);

**Chipset**

- Mobile Intel CM238 Chipset

**Memory**

- 64GB max / 2400MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets
- * System clock down for processors with lower memory controller

**Display**

- 15.6” (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 100% gamut, 170° viewing angle, Capacitive-type multi-touch, supports 10-finger gesture, 220 nits (FHD only)
- ThinkPad Pen Pro, active pen for multi-touch display

**Multi-touch (optional)**

<table>
<thead>
<tr>
<th>Pen (optional)</th>
<th>(optional)</th>
<th>Optical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Storage**

- Up to 3 drives (two M.2 SSD and one HDD)
- * System clock down for processors with lower memory controller
- Some: HDD / SATA 6.0Gb/s, 2.5” wide, 7mm high, Active Protection System™
- Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
- RAID 0/1 support

**Ethernet**

- Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
- vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

**WLAN**

- One of the following, configurable by model:
  - Intel Dual Band Wireless-Ac 8260, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
  - Intel Dual Band Wireless-Ac 8265, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
- Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter
- * Intel 8260ac / 8265ac card support BT4.2 but is limited to BT4.1 by Windows OS

**WWAN**

- One of the following, configurable by model:
  - Wireless WAN upgradable
  - Integrated Mobile Broadband 4G LTE-A, Qualcomm Snapdragon X7 LTE-A (Sierra Wireless EM7455), M.2 card

**SIM card (opt.)**

- Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card

**Display cover:** Glass-Fiber Reinforced Plastic

**Case material:** Magnesium/Aluminum

**Camera (optional)**

- HD720p resolution, fixed focus

**Audio support**

- HD Audio, Realtek ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

**Security chip**

- vPro model: Intel vPro Technology
- Fingerprint reader
- Optional: Pantone color calibrator by X-Rite color calibration sensor in palm rest

**Battery**

- Lithium Polymer 4-cell (66Wh) or 6-cell (90Wh)

<table>
<thead>
<tr>
<th>Model</th>
<th>4-cell</th>
<th>6-cell</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discrete Graphics</td>
<td>4.5 hr</td>
<td>6.1 hr</td>
</tr>
<tr>
<td>Hybrid Graphics</td>
<td>6.5 hr</td>
<td>8.9 hr</td>
</tr>
</tbody>
</table>

**AC adapter**

- * Battery life varies significantly with settings, usage, & other factors

<table>
<thead>
<tr>
<th>AC adapter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

**AC adapter**

- One of the following, configurable by model:
  - Windows® 7 Professional 64
  - Windows® 10 Home 64
  - Windows 10 Pro 64
  - Windows 10 Pro 64 for Workstations

**Limited warranty**

- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1-year battery depot repair service
  - 3-year/1-year battery limited onsite service

**Mi-Spec test**

- MIL-STD-810G military certification

**Environment**

- EPEAT® Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

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

Lenovo
September 2018
### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-6500U</td>
<td>2</td>
<td>4</td>
<td>2.5 GHz</td>
<td>3.1 GHz</td>
<td>4MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 520</td>
</tr>
<tr>
<td>7-6600U</td>
<td>2</td>
<td>4</td>
<td>2.5 GHz</td>
<td>3.4 GHz</td>
<td>4MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 520</td>
</tr>
</tbody>
</table>

or 7th Generation Intel Core i5 / i7 Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-7300U</td>
<td>2</td>
<td>4</td>
<td>2.6 GHz</td>
<td>3.5 GHz</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>7-7500U</td>
<td>2</td>
<td>4</td>
<td>2.7 GHz</td>
<td>3.5 GHz</td>
<td>4MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>7-7600U</td>
<td>2</td>
<td>4</td>
<td>2.5 GHz</td>
<td>3.9 GHz</td>
<td>4MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
</tbody>
</table>

### Graphics

- Intel HD Graphics 520 or 620 in processor and NVIDIA Quadro® M520, 2GB 2.5GHz GDDR5 memory; supports external digital monitor via HDMI or USB Type-C;
- supports three independent displays:
  - Max resolution: 4096x2304@60Hz (USB Type-C); 3840x2160@30Hz (HDMI)

### Chipset

- Intel SoC (System on Chip) platform
- Memory: 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

### Display

- On-cell touch, supports 10-finger gesture (FHD only)
- System has one HDD slot or one M.2 2280 slot exclusively for storage
- Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
- Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high (e.g. xxxBD SSD)
- Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s
- Some: 128GB M.2 SSD / SATA 6.0Gb/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN and WiGig
- 15.6" (396mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 72% gamut, 170° viewing angle
- 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 72% gamut, 170° viewing angle

### Storage

- Active Protection System™
- Wi-Fi: 2x2 802.11ac + BT4.1, M.2 card
- Wi-Fi: 2x2 802.11ac + BT4.1, M.2 card
- Wi-Fi: 2x2 802.11ac + BT4.1, M.2 card
- Wi-Fi: 2x2 802.11ac + BT4.1, M.2 card
- Wi-Fi: 2x2 802.11ac + BT4.1, M.2 card
- Wi-Fi: 2x2 802.11ac + BT4.1, M.2 card
- Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter
- * Intel 8265ac / 18265ac card support BT4.2 but is limited to BT4.1 by Windows OS

### Ethernet

- Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
- vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

### WLAN

- One of the following, configurable by model (WiGig can coexist with WWAN):
  - Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
  - Intel Dual Band Wireless-AC 8260, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
  - Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
  - Intel Tri-Band Wireless-AC 18265, WiGig 802.11ad + Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
  - Intel XMM™ 7160 (Fibocom L831-EAU), M.2 card (EEMEA only)

### Bluetooth®

- Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter
- * Intel 8265ac / 18265ac card support BT4.2 but is limited to BT4.1 by Windows OS

### WWAN (optional)

- One of the following, configurable by model (WWAN can coexist with WiGig):
  - Wireless WAN upgradable
  - Integrated Mobile Broadband 4G LTE-A
  - Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455), M.2 card
  - Integrated Mobile Broadband 4G LTE

### SIM card (optional)

- Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EEMEA) SIM card

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**Dimensions**

- WXxH: 14.40” x 9.95” x 0.79-0.80”, 365.8mm x 252.8mm x 19.95-20.2mm

**Weight**

- 4-cell: 3.65 lb / 1.66 kg
- 6-cell: 4.60 lb / 2.09 kg
- 4 + 6-cell: 6.25 lb / 2.84 kg

**Case color**

- Black

**Case material**

- Display cover: Glass-Fiber Reinforced Plastic (PPS);
- Bottom: Glass-Fiber Reinforced Plastic

**Smart card reader**

- Optional: Smart card reader

**Media reader**

- Ports: 4-in-1 (MMC, SD, SDHC, SDXC), supports SD 3.0, UHS-I
- Three USB 3.1 Gen 1 (USB 3.0, one Always On), USB 3.1 Type-C Gen 2 / Thunderbolt 3, HDMI 2.1, Ethernet (RJ-45), Dock connector

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

**WiGig dock (optional)**

- ThinkPad WiGig dock

**Monitor cable (optional)**

- HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
- USB-C to VGA: Lenovo USB-C to VGA Adapter

**Camera (optional)**

- 720p: HD720p resolution, fixed focus
- IR & 720p: IR camera and HD720p camera (mutually exclusive with WiGig)

**Audio support**

- HD Audio, Realtek ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

**Keyboard**

- 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

**UltraNav™**

- TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

**Security**

- Power-on password, hard disk password, supervisor password, security keyhole

**Security chip**

- vPro (optional)
- Intel vPro Technology

**Fingerprint reader (optional)**

- Touch style match on chip fingerprint reader on the palm rest

**NFC (optional)**

- Near Field Communication

**Internal battery**

- Optional: Integrated Li-Polymer 4-cell (32Wh)

**External battery**

- Li-Polymer 3-cell (24Wh) or Li-ion 6-cell (48Wh or 72Wh)

**Max battery life**

- 4 + 3-cell 63Wh: 12.5 hr
- 6-cell 64Wh: 16.5 hr
- 4 + 6-cell 72Wh: 20.0 hr
- 4-cell 54Wh: 9.6 hr

**AC adapter**

- 65W slim tip AC adapter or 65W USB Type-C AC adapter

**Preload**

- Windows® 7 Professional 64 preinstalled Some: Windows 10 Home 64
- through downgrade rights in Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo PowerEngage
- ThinkVantage Product Recovery
- ThinkVantage System Update
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

**Limited warranty**

- Some: 3-year/1-yr battery limited onsite service

**Mil-Spec test**

- MIL-STD-810G military certification

**Environment**

- EPEAT® Gold (US only); ENERGY STAR® 6.1; RoHS-compliant
### ThinkPad P52 Platform Specifications

**Processor**

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processors Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-8750H</td>
<td>6</td>
<td>12</td>
<td>2.2 GHz</td>
<td>4.1 GHz</td>
<td>9MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 630</td>
</tr>
</tbody>
</table>

**Chipset**

- Mobile Intel CM246 chipset

**Memory**

- 128GB non-ECC or 64GB ECC max / 2400MHz DDR4 (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets

**Display**

- **Max resolution:** 3840X2160@60Hz (DisplayPort via Mini DisplayPort cable); 5120X2880@30Hz (Thunderbolt); 4096x2160@60Hz (HDMI)

**Graphics**

- Intel UHD Graphics 630 or P630 in processor and NVIDIA Quadro® P1000 (4GB memory), P2000 (4GB memory), or P3200 (6GB memory, VR ready); supports external digital monitor via HDMI, Mini DisplayPort, or Thunderbolt™; supports four independent displays;

**WLAN**

- Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card

**WWAN (optional)**

- Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L890-GL), M.2 card

**SIM card (optional)**

- Nano-SIM card slot, optional Verizon LTE (US) SIM card

### Dimensions

- **WxDxH:** 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm
- **WxDxH (Touch):** 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm

### Weight

- **Non-touch model:** starting at 5.4 lb (2.45kg);
- **Multi-touch model:** starting at 6.4 lb (2.9kg)

### Case color

- Black

### Case material

- Display cover: PPS;
- Bottom: Magnesium/Aluminum

### Smart card reader

- Optional: Smart card reader

### Media reader

- 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card

### Ports

- Three USB 3.1 Gen 1 (one Always On), two USB Type-C / Thunderbolt 3 (with the function of Power Delivery and DP), Mini DisplayPort 1.4, HDMI 2.0, Ethernet (RJ-45), nano-SIM card slot (WWAN models), headphone / microphone combo jack, optional smart card reader, 4-in-1 reader (MMC, SD, SDHC, SDXC), security keyhole

### Security

- Power Delivery only supports power-out for charging peripherals

### Camera (optional)

- One of the following, configurable by model:
  - HD720p camera with ThinkShutter camera privacy, fixed focus
  - IR camera and HD720p camera, fixed focus

### Audio support

- HD Audio, Realtek® ALC3286 codec /

### Keyboard

- 6-row, spill-resistant, multimedia Fn keys, LED backlight, 3-button TrackPoint® pointing device and 3-button Mylar surface multi-touch touchpad

### Security chip

- Power-on password, hard disk password, supervisor password, security keyhole

### Preload

- One of the following, configurable by model:
  - Windows® 10 Home 64
  - Windows 10 Pro 64
  - Windows 10 Pro 64 for Workstations

### Limited warranty

- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1-yr battery depot repair service
  - 3-year/1-yr battery limited onsite service

### MIL-Spec test

- MIL-STD-810G military certification

### Environment

- EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

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

Lenovo
April 2019
ThinkPad P52s Platform Specifications

Product Specifications Reference (PSREF)

Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>8th Generation Intel® Core™ i5 / i7 Processor</td>
<td>4</td>
<td>8</td>
<td>1.7 GHz</td>
<td>3.6 GHz</td>
<td>6MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>i5-8250U</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>4.0 GHz</td>
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<tr>
<td>i7-8550U</td>
<td>4</td>
<td>8</td>
<td>1.9 GHz</td>
<td>4.2 GHz</td>
<td>8MB</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Graphics

Intel UHD Graphics 620 in processor and NVIDIA Quadro® P500, 2GB GDDR5 memory; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2304 @60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

Chipset Memory

Intel SoC (System on Chip) platform, Intel Ethernet Connection I219-V (Jacksonville)

Display

Some: 15.6” (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle
Some: 15.6” (396mm) UHD (3840x2160), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 72% gamut, 170° viewing angle

Storage

System has one HDD slot or one M.2 2280 slot exclusively for storage
Some: SSD / SATA 6.0Gb/s, 2.5” wide, 7mm high, Active Protection System™
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s

Optane™ memory

Optinal: Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2

Ethernet

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)

WLAN + Bluetooth™

Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card

WWAN (optional)

One of the following, configurable by model:
- Wireless WAN upgradable
- Integrated Mobile Broadband 4G LTE, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card (EMEA only)
- Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7262 (Fibocom L830-EB), M.2 card (EMEA only)

SIM card (opt)

Nano-SIM card slot, optional Verizon LTE (US) SIM card

Dimensions

WxDxH: 14.40” x 9.95” x 0.79-0.80”; 365.8mm x 252.8mm x 19.95-20.2mm

Weight

starting at 4.39 lb / 1.99 kg

Camera (optional)

One of the following, configurable by model:
- HD720p camera with ThinkShutter camera privacy, fixed focus
- 1080p camera and HD720p camera, fixed focus

Audio support

HD Audio, Realtek ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

Security chip

vPro (optional)

Discrete TPM 2.0, TCG Certified

Fingerprint reader

Optional: Touch style match on chip fingerprint reader on the palm rest

Battery

Optional integrated Li-ion 32Wh battery and external Li-ion 24Wh, 48Wh or 72Wh battery

Max battery life (MobileMark® 2014)

Models
- 48Wh
- 72Wh
- 32Wh + 24Wh
- 32Wh + 48Wh
- 32Wh + 72Wh

Max battery life

12.0 hr
18.5 hr
13.5 hr
20.1 hr
26.3 hr

AC adapter

* Battery life varies significantly with settings, usage, & other factors

Preload

Windows® 10 Home 64 or Windows 10 Pro 64

Limited warranty

One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-year battery depot repair service
- 3-year/1-year battery limited onsite service

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT® Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

Lenovo May 2019
## ThinkPad P72 Platform Specifications

**Product Specifications Reference (PSREF)**

### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-8750H</td>
<td>6</td>
<td>12</td>
<td>2.2 GHz</td>
<td>4.1 GHz</td>
<td>9MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 630</td>
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<td>7-8850H</td>
<td>6</td>
<td>12</td>
<td>2.6 GHz</td>
<td>4.3 GHz</td>
<td>9MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 630</td>
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<td>Intel UHD Graphics 630</td>
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<tr>
<td>E-2186M</td>
<td>6</td>
<td>12</td>
<td>2.9 GHz</td>
<td>4.8 GHz</td>
<td>12MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 630</td>
</tr>
</tbody>
</table>

### Graphics

- Intel UHD Graphics 630 or P630 in processor and NVIDIA Quadro P600 (4GB memory), P2000 (4GB memory), P3200 (6GB memory), P4200 (8GB memory), or P5200, supports external digital monitor via HDMI, Mini DisplayPort, or Thunderbolt; supports four independent displays
- Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable): 5120x2880@30Hz (Thunderbolt); 4096x2160@60Hz (HDMI)

### Chipset

- Mobile Intel CM246 Chipset

### Memory

- 128GB non-ECC or 64GB ECC max / 2400MHz DDR4 (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets
- Some: 17.3” (439mm) HFD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16.9 aspect ratio, 800:1 contrast ratio, 72% gamut, 170° viewing angle
- Some: 17.3” (439mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 400 nits, 16.9 aspect ratio, 1000:1 contrast ratio, 100% Adobe CG, 170° viewing angle

### Display

- All models support a 3-button multi-touch touchpad and Active Protection System™

### Multi-touch Pen

- None

### Storage

- Up to 3 drives (two M.2 SSD and one HDD)
- Some: HDD / SATA 6.0Gb/s, 2.5” wide, 7mm high, Active Protection System™
- Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

### Optane™ memory

- Optional: Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2
- RAID 0/1 support

### Optical

- None

### Ethernet

- Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
- vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

### WLAN

- Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card
- Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

### WWAN

- SIM card: None

### Media reader

- ExpressCard: None

### Audio

- HD Audio, Realtek ALC3286 codec / ALC3266 codec / Audio
- USB 3.1 Gen 1 (one Always On), two USB Type-C / Thunderbolt 3 (with the function of Power Delivery and DP), Mini DisplayPort 1.4, HDMI 2.0, Ethernet (RJ-45), headphone / microphone combo jack, optional smart card reader, 4-in-1 reader (MMC, SD, SDHC, SDXC), security keyhole
- * Power Delivery only supports power-out for charging peripherals
- * Depending on many factors, actual data transfer speed may be lower than theoretical speed

### Monitor cable

- Optional: Lenovo Mini-DisplayPort to DisplayPort Monitor Cable

### Security

- Power-on password, hard disk password, supervisor password, security keyhole
- Security chip
- vPro (optional)
- Intel vPro Technology
- Fingerprint reader
- Touch style match on chip fingerprint reader on the palm rest
- Color calibration
- None
- NFC (optional)
- Near Field Communication

### Battery

- Li-ion 99Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- Maximum battery life:
  - MobileMark® 2014: 18 hr
- * Battery life varies significantly with settings, usage, & other factors

### AC adapter

- 230W slim tip AC adapter

### Preload

- One of the following, configurable by model:
  - Windows® 10 Home 64
  - Windows 10 Pro 64
  - Windows 10 Pro 64 for Workstations

### Limited warranty

- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1-yr battery depot repair service
  - 3-year/1-yr battery limited onsite service

### Mil-Spec test

- MIL-STD-810G military certification

### Environment

- EPEAT® Gold (US only); ENERGY STAR® 7.0; RoHS-compliant

### Note

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

**May 2019**
**ThinkPad T470 Platform Specifications**  
Product Specifications Reference (PSREF)  
Lenovo  
April 2019

### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i5-6200U</td>
<td>2</td>
<td>4</td>
<td>2.3 GHz</td>
<td>2.8 GHz</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 520</td>
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<td>i5-6300U</td>
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<td>4</td>
<td>2.4 GHz</td>
<td>3.0 GHz</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 520</td>
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<tr>
<td>i7-6500U</td>
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<td>4</td>
<td>2.5 GHz</td>
<td>3.1 GHz</td>
<td>4MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>i7-6600U</td>
<td>2</td>
<td>4</td>
<td>2.6 GHz</td>
<td>3.4 GHz</td>
<td>4MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
</tbody>
</table>

**7th Generation Intel Core i3 / i5 / i7 Processor**

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
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<td>i3-7100U</td>
<td>2</td>
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<td>2.4 GHz</td>
<td>-</td>
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<td>DDR4-2133</td>
<td>Intel HD Graphics 520</td>
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<tr>
<td>i5-7200U</td>
<td>2</td>
<td>4</td>
<td>2.5 GHz</td>
<td>3.1 GHz</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
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<td>i7-7300U</td>
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<td>4</td>
<td>2.7 GHz</td>
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<td>Intel HD Graphics 620</td>
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<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
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<td>i7-7600U</td>
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<td>4</td>
<td>2.9 GHz</td>
<td>3.9 GHz</td>
<td>4MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
</tbody>
</table>

### Graphics

- Intel HD Graphics 520 or 620 in processor only, or Intel HD Graphics 620 in processor and NVIDIA GeForce® 940MX, 2GB 2.5GHz GDDR5 memory (discrete models are not available in EMEA); supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@24Hz (HDMI)

### Chipset Memory

- Intel SoC (System on Chip) platform
- 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets
- Supports on-chip memory controller

### Display

- Some: 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio
- Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio
- Some: 14.0" (355mm), FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle
- Multi-touch (optional) On-cell touch, supports 10-finger gesture (FHD IPS panel with PPS cover only)

### Storage

- System has one HDD slot or one M.2 2280 slot exclusively for storage
- Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm thick, Active Protection System
- Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm thick (e.g. xxxGB SSD)
- Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s
- Some: 128GB M.2 SSD / SATA 6.0Gb/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN and WiGig

### Optical

- None

### Ethernet

- Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
- vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

### WLAN

- One of the following, configurable by model (WiGig can coexist with WWAN):
  - Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
  - Intel Dual Band Wireless-AC 8260, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
  - Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
  - Intel Tri-Band Wireless-AC 18265, WiGig 802.11ad + Wi-Fi 2x2 802.11ac + BT4.1, M.2 card

### Bluetooth™

- Bluetooth® 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter
- * Intel 8265ac / 18265ac support BT2.2 but is limited to BT4.1 by Windows OS

### WWAN (optional)

- One of the following, configurable by model (WWAN can coexist with WiGig):
  - Wireless WAN upgradable
  - Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455), M.2 card
  - Integrated Mobile Broadband 4G LTE,
  - Intel XMM™ 7160 (Fibocom L831-EAU), M.2 card (EMEA only)

### SIM card (optional)

- Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card

### Dimensions

- WxDxH: 13.25" x 9.15" x 0.79"; 336.6mm x 232.5mm x 19.95mm

### Weight

- Models
  - 3-cell or 3 + 3-cell
  - 6-cell or 3 + 6-cell
- Magnesium
  - 3.49 lb / 1.58 kg
  - 3.92 lb / 1.78 kg
- PPS
  - 3.63 lb / 1.65 kg
  - 4.35 lb / 1.95 kg

### Case color

- Black

### Case material

- Display cover: Magnesium Hybrid or PPS,
- Glass-Fiber Reinforced Plastic

### Smart card reader

- Optional: Smart card reader

### Media reader

- 4-in-1 reader (MMC, SD, SDHC, SDXC), supports SD 3.0, UHS-I
- Three USB 3.1 Gen 2 / Thunderbolt 3 (w/ the function of Power Delivery and DP), HDMI 1.4b, Ethernet (RJ-45), Dock connector
- Depending on many factors, actual data transfer speed may be lower than theoretical speed

### WiGig dock (optional)

- ThinkPad WiGig dock
- Optional: Lenovo USB-C to VGA Adapter

### Monitor cable

- Camera (optional) 720p: HD720p resolution, fixed focus
- Audio support: HD Audio, Realtek ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

### Keyboard

- UltraNav™
- TrackPoint® pointing device and buttonless Mylar surface multi-touchpad
- 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

### Security

- Power-on password, hard disk password, supervisor password, security keyhole
- Discrete TPM 2.0, TCG Certified

### Security chip

- VPro technology
- Fingerprint reader
- NFC (optional)
- Near Field Communication

### Internal battery

- Optional: Integrated Li-Polymer 3-cell (24Wh)
- Li-Polymer 3-cell (24Wh) or Li-ion 6-cell (48Wh or 72Wh)

### External battery

- Some:
  - 6.9 hr 13.9 hr 15.9 hr 20.9 hr 20.9 hr 27.1 hr
  - 6.9 hr 13.9 hr 14.3 hr 21.6 hr 21.2 hr 28.6 hr

### AC adapter

- 45W or 65W slim tip AC adapter, 45W or 65W USB Type-C AC adapter
- 45W or 65W slim tip AC adapter, 45W or 65W USB Type-C AC adapter

### Preload

- Windows® 7 Professional 64 preinstalled
- Some: Windows 10 Home 64
- Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo PowerEngage
- ThinkVantage Product Recovery
- ThinkVantage System Update
- Adobe® Reader®
- Microsoft® Office preloaded
- purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

### Limited warranty

- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1-yr battery depot repair service
  - 3-year/1-yr battery limited onsite service

### Mi-Spec test

- MIL-STD-810G military certification

### Environment

- EPEAT® Gold (US only);
- ENERGY STAR® 6.1; RoHS-compliant

**Lenovo**

**April 2019**
# ThinkPad T470s Platform Specifications

## Processor

<table>
<thead>
<tr>
<th>Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory</th>
<th>Processor Graphics</th>
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<tbody>
<tr>
<td>i5-6200U</td>
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</table>

* or 7th Generation Intel Core i5 / i7 Processor

<table>
<thead>
<tr>
<th>Number</th>
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<td>DDR4-2133</td>
<td>Intel HD Graphics 520</td>
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<tr>
<td>7-7600U</td>
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<td>3.5 GHz</td>
<td>4MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
</tbody>
</table>

## Graphics

- Intel HD Graphics 520 or 620 in processor;
- supports external digital monitor via HDMI or USB Type-C;
- supports three independent displays;
- Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@24Hz (HDMI)

## Chipset

- Intel SoC (System on Chip) platform
- 20GB or 24GB max / 2400MHz DDR4, dual-channel capable,
- 4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket
- System clocks down for processors with lower memory controller

## Display

- 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 160° viewing angle
- Some: 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 160° viewing angle
- On-cell touch, supports 10-finger gesture, 250 nits (FHD only)

## Multi-touch (opt)

- Touch style match on chip fingerprint reader on the palm rest
- Multi-touch capable when provided by model
- TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

## Storage

- One of the following, configurable by model:
  - M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2)
  - M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxGB SSD M.2 PCIe NVMe)
- None

## Optical

- Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
- vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

## Ethernet

- Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
- vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

## WLAN

- One of the following, configurable by model (WiGig is mutually exclusive with WWAN):
  - Intel Dual Band Wireless-AC 8260, Wi-Fi 2x2 802.11ac + BT 4.1, M.2 card
  - Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT 4.1, M.2 card
  - Intel Tri-Band Wireless-AC 18265, WiGig 802.11ad + Wi-Fi 2x2 802.11ac + BT 4.1, M.2 card
  - Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

## Bluetooth

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

## WWAN (optional)

- One of the following, configurable by model (mutually exclusive with WiGig):
  - Wireless WAN upgradeable
  - Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455), M.2 card
  - Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card

## SIM card (opt)

- Some:
  - Lenovo USB-C to VGA: Lenovo USB-C to VGA Adapter

## Camera

- Camera (optional) HD720p resolution, fixed focus

## Audio support

- UltraNav™ 6-row, spill-resistant, multimedia Fn keys, optional LED backlight
- TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

## Security

- Security chip
  - vPro (optional): Touch style match on chip fingerprint reader on the palm rest
  - vPro Technology
  - Fingerprint reader
  - Optional: Touch style match on chip fingerprint reader on the palm rest

## Display cover:

- Black or Silver

## AC adapter

- 45W slim tip AC adapter, 45W or 65W USB Type-C AC adapter

## Battery life

- * Battery life varies significantly with settings, usage, & other factors
- * Depending on many factors, actual data transfer speed may be lower than theoretical speed

## Memory

- 20GB or 24GB max / 2400MHz DDR4, dual-channel capable,
- 4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket

## Ports

- Three USB 3.1 Gen 1 (USB 3.0, one Always On), USB 3.1 Type-C Gen 2 / Thunderbolt 3 (w/ the function of Power Delivery and DP), HDMI 1.4b, Ethernet (RJ-45), Dock connector
- WiFi 802.11ac + BT 4.1, M.2 card
- * Depending on many factors, actual data transfer speed may be lower than theoretical speed
- * Depending on many factors, actual data transfer speed may be lower than theoretical speed

## Preload

- Windows® 7 Professional 64 preinstalled
- Some: Windows 10 Home 64
- Some: Windows 10 Pro
- Lenovo Companion
- Lenovo Setting
- Microsoft Office preloaded;
- purchase a product key to activate

## Warranty

- 1-year depot repair service
- 2-year/1-year battery depot repair service
- 3-year/1-year battery limited onsite service

- Limited warranty
  - One of the following, configurable by model:
    - 1-year depot repair service
    - 2-year/1-year battery depot repair service
    - 3-year/1-year battery limited onsite service

## System Update

- Lenovo System Center
- Lenovo PowerEngage
- Lenovo Solution Center

## Environmental

- EPEAT® Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

Lenovo

April 2019
# ThinkPad T480 Platform Specifications

## Processor

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or 8th Generation Intel Core i3 / i5 / i7 / Processor

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<td>8MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
</tbody>
</table>

## Graphics

Intel HD Graphics 620 or Intel UHD Graphics 620 in processor only or Intel HD Graphics 620 or Intel UHD Graphics 620 in processor and NVIDIA® GeForce® MX150, 2GB GDDR5 memory (discrete graphics is available only on i7 models in EMEA); supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

## Chipset

Intel SoC (System on Chip) platform

## Memory

32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

* System clock down for processors with lower memory controller

## Display

**Some:**
- 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio
- 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle
- 14.0" (355mm) QWHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle

## Multi-touch (opt)

On-cell touch, supports 10-finger gesture (FHD only)

## Storage

System has one HDD slot or one M.2 2280 slot exclusively for storage

**Some:**
- HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
- SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high (e.g. xxxGB SSD)
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16GB/s
- 128GB M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16GB/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN
- 256GB M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 32GB/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN

## Optane™ memory

Optional: Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2

## Ethernet

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)

vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

## WWAN (optional)

One of the following, configurable by model (mutually exclusive with Intel Optane memory):
- Integrated Mobile Broadband 4G LTE, Intel XMM™ 7262 (Fibocom L830-EB), M.2 card (EMEA only)
- Discrete Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-LG), M.2 card
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service

## SIM card (opt)

Nano-SIM card slot, optional Verizon LTE (US) SIM card

## Case color

Black

## Weight

Integrated Magnesium: 3.49 lb / 1.58 kg
Integrated PPS: 3.63 lb / 1.63 kg
Discrete Magnesium: 3.53 lb / 1.60 kg
Discrete PPS: 3.68 lb / 1.67 kg

## Dimensions

WxDxH: 13.25" x 9.15" x 0.79"; 336.8mm x 232.5mm x 19.95mm

## Battery

Max battery life

- Models: 24Wh or 24Wh + 24Wh / 48Wh, 72Wh battery
- Integrated model: 7.2 hr / 14.4 hr / 21.8 hr / 14.4 hr / 21.8 hr / 29.0 hr
- Discrete model: 6.6 hr / 13.2 hr / 19.8 hr / 13.6 hr / 19.8 hr / 26.4 hr

## Optional features

- Near Field Communication
- Security chip
- Security keyhole
- Intel vPro Technology
- Power-on password, hard disk password, supervisor password, security keyhole
- Discrete TPM 2.0, TCG Certified
- 4-in-1 reader (MMC, SD, SDHC, SDXC)
- MobileMark® 2014
- 3.68 lb / 1.67 kg
- 4.12 lb / 1.87 kg
- Class Hybrid or PPS; Glass-Fiber Reinforced Plastic
- Lenovo USB-C to DisplayPort Adapter

## Audio support

- HD Audio, Realtek® ALC3287 codec
- Stereo speakers, 2W x 2, Dolby® Audio™ Premium / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo jack
- HD Audio, Realtek® ALC3287 codec
-alamo Audio, Realtek® ALC3287 codec
- Battery life varies significantly with settings, usage, & other factors

## Security

Power-on password, hard disk password, supervisor password, security keyhole

## NFC (optional)

Near Field Communication

## Preload

Windows® 10 Home 64 or Windows 10 Pro 64

## Limited warranty

One of the following, configurable by model:

<table>
<thead>
<tr>
<th>Warranty</th>
<th>Service Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-year depot repair service</td>
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</tr>
<tr>
<td>3-year/1-yr battery depot repair service</td>
<td></td>
</tr>
<tr>
<td>3-year/1-yr battery limited onsite service</td>
<td></td>
</tr>
</tbody>
</table>

## Test

- ML-Spec test
- MIL-STD-810G military certification

## Energy Star

- ENERGY STAR® 6.1; RoHS-compliant

Lenovo

May 2019
### ThinkPad T480s Platform Specifications

#### Processor

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<tr>
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<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
</tbody>
</table>

#### Graphics

- Intel HD Graphics 620 or Intel UHD Graphics 620 in processor only or Intel UHD Graphics 620 in processor and NVIDIA® GeForce® MX150, 2GB GDDR5 memory (discrete models are NOT available in EMEA);
- supports external digital monitor via HDMI or USB Type-C;
- supports three independent displays;
- Max resolution: 4096x2304 @60Hz (USB Type-C); 4096x2160 @30Hz (HDMI)

#### Chipset

- Intel SoC (System on Chip) platform

#### Display

- Some: 14.0” (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle, supports ThinkPad Privacy Guard on some models
- Some: 14.0” (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle

#### Storage

- One of the following, configurable by model:
  - M.2 SSD / SATA 6.0Gb/s
  - M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

#### Optane™ memory

- None

#### Ethernet

- Non-vPro model: Intel Ethernet Connection i219-V (Jacksonville)
- vPro model: Intel Ethernet Connection i219-LM (Jacksonville)

#### WLAN + Bluetooth™

- Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
- Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS

#### WWAN (optional)

- One of the following, configurable by model:
  - Wireless WAN upgradable
  - Integrated Mobile Broadband 4G LTE, Intel XMM™ 7626 (Fibocom L830-EB), M.2 card (EMEA only)
  - Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card

#### SIM card (optional)

- Nano-SIM card slot, optional Verizon LTE (US) SIM card

### Additional Specifications

- Dimensions: WxDxH: 13.03” x 8.93” x 0.73”; 331mm x 226.8mm x 18.45mm
- Smart card reader: Optional: Smart card reader
- Media reader: 4-in-1 reader (MMC, SD, SDHC, SDXC)
- Ports: Two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort), one USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of PD and DP), HDMI 1.4b, Ethernet (RJ-45), nano-SIM card slot (WWAN models), headphone / microphone combo jack, optional smart card reader, 4-in-1 reader (MMC, SD, SDHC, SDXC), side docking connector, security keyhole
- Camera: One of the following, configurable by model:
  - HD720p camera with ThinkShutter camera privacy, fixed focus
  - IR camera and HD720p camera, fixed focus
- Audio support: HD Audio, Realtek® ALC2293 codec / stereo speakers, 1W x 2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo jack
- Monitor cable: (optional)
  - USB-C to VGA: Lenovo USB-C to VGA Adapter
  - USB-C to DP: Lenovo USB-C to DisplayPort Adapter
- Security chip: Intel vPro Technology
- Security chip: Discrete TPM 2.0, TCG Certified
- Fingerprint reader: Optional: Touch style match on chip fingerprint reader on the palm rest, anti-spoofing technology
- AC adapter: 45W or 65W USB Type-C AC adapter
- Battery: Integrated Li-ion 57Wh battery, supports Rapid Charge (0-80% in 60 mins) with 65W USB Type-C AC adapter
- Max battery life: MobileMark® 2014: 15.6 hr
- NFC: Optional: Near Field Communication
- Operating system: Windows® 10 Home 64 or Windows 10 Pro 64
- Limited warranty: One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1-yr battery depot repair service
  - 3-year/1-yr battery limited onsite service
- MIL-Spec test: MIL-STD-810G military certification
- Environment: EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant
- Lenovo April 2019

Note: The specifications above may not be available in all regions.
ThinkPad T490 Platform Specifications

Product Specifications Reference (PSREF)

Processor 8th Generation Intel® Core™ i5 / i7 Processor

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<td>1</td>
<td>1.6 GHz</td>
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<td>8MB</td>
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<td>Intel UHD Graphics 620</td>
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<tr>
<td>i5-8365U</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>4.1 GHz</td>
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Graphics

- Intel UHD Graphics 620 in processor or
- Intel UHD Graphics 620 in processor and NVIDIA® GeForce® MX250, 2GB GDDR5 memory;
supports external digital monitor via HDMI or Thunderbolt;
supports three independent displays;
Max resolution: 4096x2304@60Hz (Thunderbolt); 4096x2160@24Hz (HDMI)

Chipset

- Intel SoC (System on Chip) platform

Memory

- 48GB max / 2400MHz DDR4, dual-channel capable,
- 8GB or 16GB memory soldered to system board, one DDR4 SO-DIMM socket

Display

- 14.0" HD (1366x768) TN Anti-glare 220 nits 16:9 45% 10°
- 14.0" FHD (1920x1080) IPS Anti-glare 250 nits (non-touch) 300 nits (multi-touch) 16:9 700:1 45% 170°
- 14.0" FHD (1920x1080) Low Power IPS Anti-glare 400 nits 16:9 800:1 72% 170°
- 14.0" FHD (1920x1080) ThinkPad Privacy Guard IPS Anti-glare 400 nits 16:9 1000:1 72% 170°
- 14.0" QHD (2560x1440) Dolby Vision™ HDR IPS Glossy 500 nits 16:9 1500:1 100% Adobe 170°

Multi-touch (optional)

- On-cell touch, supports 10-finger gesture (FHD only)

Storage

- M.2 2280 SSD / SATA 6.0Gb/s
- M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4
- M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2

Optane™ memory

Optional: Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2

Optical

None

Ethernet

- Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0
- Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN (optional)

- 802.11ac + Bluetooth 5.0

WWAN (optional)

- One of the following, configurable by model:
  - Wireless WAN upgradeable
  - Integrated Mobile Broadband 4G LTE, Fibocom L830-EB, M.2 card (EMEA only)
  - Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card
  - Integrated Mobile Broadband 4G LTE-A, Fibocom L860-GL, MIMO 4x4, M.2 card

Battery

- Integrated Li-ion 50Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- Max battery life
  - MobileMark® 2014: 16.11 hr
  - Battery life varies significantly with settings, usage, & other factors

AC adapter

- 45W or 65W USB Type-C AC adapter

Preload

- Lenovo USB-C to VGA Monitor Adapter
- Lenovo USB-C to HDMI Adapter
- Lenovo USB-C to DisplayPort Adapter

Limited warranty

- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1-yr battery depot repair service
  - 3-year/1-yr battery limited onsite service

Mil-Spec test

- MIL-STD-810G military certification

Environment

- EPEAT™ Bronze; ENERGY STAR® 7.0; RoHS-compliant

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

Lenovo

May 2019
## ThinkPad T490s Platform Specifications

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<td>8</td>
<td>8</td>
<td>1.6 GHz</td>
<td>4.6 GHz</td>
<td>8MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>i7-8665U</td>
<td>8</td>
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<td>1.9 GHz</td>
<td>4.8 GHz</td>
<td>8MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
</tbody>
</table>

### Graphics

- Intel UHD Graphics 620 in processor only;
- supports external digital monitor via HDMI or Thunderbolt;
- supports three independent displays;
- Max resolution: 4096x2304@60Hz (Thunderbolt); 4096x2160@24Hz (HDMI)

### Chipset

- Intel SoC (System on Chip) platform
- 8GB, 16GB or 32GB / 2400MHz DDR4 / soldered to system board, no sockets
- *Installed memory is actually 2966MHz but run at 2400MHz due to Intel limitation*

### Memory

- Non-vPro
- **8GB**, 16GB or 32GB / 2400MHz DDR4 / soldered to system board, no sockets
- *Installed memory is actually 2966MHz but run at 2400MHz due to Intel limitation*

### Display

- **14.0” FHD (1920x1080)**
  - IPS Anti-glare
  - 250 nits (non-touch)
  - 300 nits (multi-touch)
  - Aspect Ratio: 16:9
  - Brightness: 700:1
  - Color Gamut: 45%
  - Viewing Angle: 170°
- **14.0” FHD (1920x1080)**
  - Low Power
  - IPS Anti-glare
  - 400 nits
  - Aspect Ratio: 16:9
  - Brightness: 800:1
  - Color Gamut: 72%
  - Viewing Angle: 170°
- **14.0” WQHD (2560x1440)**
  - Dolby Vision™ HDR
  - IPS Glossy
  - 500 nits
  - Aspect Ratio: 16:9
  - Brightness: 1500:1
  - Color Gamut: 100%
  - Viewing Angle: 170°

### Multi-touch (opt)

- On-cell touch, supports 10-finger gesture (FHD only)

### Storage

- M.2 2280 SSD / SATA 6.0Gb/s
- M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4
- M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2
- Optical

### Optane™ memory

- Optional: Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2
- None

### Ethernet

- Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro)
  - via bundled or optional ThinkPad Ethernet Extension Adapter Gen 2

### WLAN (optional)

- One of the following, configurable by model:
  - Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0
  - Intel Wireless-AX 22260, Wi-Fi 2x2 802.11ax + Bluetooth 5.0

### Bluetooth™

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

### WWAN (optional)

- One of the following, configurable by model:
  - Wireless WAN upgradable
  - Integrated Mobile Broadband 4G LTE, Fibocom L830-EB, M.2 card (EAME only)
  - Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card
  - *For non-WWAN model, it means the model is NOT WWAN upgradable*

### WWAN

- Integrated Mobile Broadband 4G LTE (WWAN models) using the following WWAN options:
  - One of the following, configurable by model:
    - **Integrated Mobile Broadband 4G LTE**
      - **Models Black with FHD**
        - **WxDxH (silver)**: 12.96” x 8.92” x 0.68”
        - **Weight**: 2.96 lb / 1.35 kg
      - **Models Black with FHD Low Power / WQHD**
        - **WxDxH (black with FHD Low Power)**: 12.94” x 8.90” x 0.66”
        - **232.8mm x 226.15mm x 16.7mm**
    - **Models Silver**
      - **WxDxH (black with FHD / Privacy Guard)**: 12.94” x 8.90” x 0.66”
      - **Weight**: 2.81 lb / 1.27 kg
      - **Weight**: 3.29 lb / 1.49 kg
  - *Depending on many factors, actual data transfer speed may be lower than theoretical speed*

### Audio support

- One of the following, configurable by model:
  - HD720p camera with ThinkShutter camera privacy, fixed focus
  - *Depending on many factors, actual data transfer speed may be lower than theoretical speed*

### Camera

- Camera
  - One of the following, configurable by model:
    - HD Audio, Realtek ALC3287 codec / stereo speakers, 1W x 2, Dolby Audio™ Premium
    - *Depending on many factors, actual data transfer speed may be lower than theoretical speed*

### Monitor cable

- One of the following, configurable by model:
  - USB-C to DisplayPort Adapter
  - USB-C to DP: Lenovo USB-C to DisplayPort Adapter

### Keyboard

- Keyboard
  - 6-row, spill-resistant, multimedia Fn keys, optional LED backlight
  - TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

### Fingerprint reader

- Fingerprint reader
  - Optional: Touch style match on chip fingerprint reader on the palm rest

### Security

- Security chip
  - Security chip
  - Intel vPro Technology
  - Discrete TPM 2.0, TCG Certified

### Battery

- Battery
  - Integrated Li-ion 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

### AC adapter

- AC adapter
  - MobileMark® 2014: 20 hr
  - 45W or 65W USB Type-C AC adapter

### Preload

- Preload
  - Windows® 10 Home 64 or Windows 10 Pro 64

### Limited warranty

- Limited warranty
  - One of the following, configurable by model:
    - 1-year depot repair service
    - 3-year/1-yr battery depot repair service
    - 3-year/1-yr battery limited onsite service

### Mil-Spec test

- Mil-Spec test
  - MIL-STD-810G military certification

### Environment

- Environment
  - EPEAT® Bronze; ENERGY STAR® 7.0; RoHS-compliant
**ThinkPad T570 Platform Specifications**

### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i5-6200U</td>
<td>2</td>
<td>4</td>
<td>2.3 GHz</td>
<td>2.8 GHz</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 520</td>
</tr>
<tr>
<td>i5-6300U</td>
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<td>4</td>
<td>2.4 GHz</td>
<td>3.0 GHz</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 520</td>
</tr>
<tr>
<td>i7-6600U</td>
<td>2</td>
<td>4</td>
<td>2.6 GHz</td>
<td>3.4 GHz</td>
<td>4MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
</tbody>
</table>

or 7th Generation Intel Core i5 / i7 Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
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</thead>
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<tr>
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<td>Intel HD Graphics 520</td>
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<td>i7-7700U</td>
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<td>3.9 GHz</td>
<td>4MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
</tbody>
</table>

### Graphics

- Intel HD Graphics 520 or 620 in processor only, or Intel HD Graphics 520 or 620 in processor and NVIDIA GeForce 940MX, 2GB 2.5Ghz GDDR5 memory; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@24Hz (HDMI)

### Chipset Memory

- Intel SoC (System on Chip) platform
- 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets
  * System clocks down for processors with lower memory controller

### Display

- Some: 15.6” (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio
- Some: 15.6” (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle
- Some: 15.6” (396mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 72% gamut, 170° viewing angle

### Multi-touch (opt)

- On-cell touch, supports 10-finger gesture (FHD only)

### Storage

- System has one HDD slot or one M.2 SSD slot exclusively for storage
- Some: SSD / SATA 6.0Gb/s, 2.5” wide, 7mm high, Active Protection System™
- Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 16Gb/s
- Some: 128GB M.2 SSD / SATA 6.0Gb/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN and WiGig

### Optical

- None

### Ethernet

- Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
- vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

### WLAN

- One of the following, configurable by model (WiGig can coexist with WWAN):
  - Realtek® RT8822BE, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card (US only)
  - Intel Dual Band Wireless-AC 8260, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
  - Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
  - Intel Tri-Band Wireless-AC 18265, WiGig 802.11ad + Wi-Fi 2x2 802.11ac + BT4.1, M.2 card

### Bluetooth

- Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter
  * Intel 8265ac / 18265ac card support BT4.2 but is limited to BT4.1 by Windows OS

### WWAN (optional) (WiGig (opt))

- One of the following, configurable by model (WWAN can coexist with WiGig):
  - Wireless WAN upgradable
  - Integrated Mobile Broadband 4G LTE-A, Qualcomm™ Snapdragon™ X7 LTE-A (Sierra Wireless EM7455), M.2 card
  - Integrated Mobile Broadband 4G LTE, Intel XMM™ 7160 (Fibocom L831-EAU), M.2 card (EMEA only)
  - Micro-SIM card slot, opt Verizon LTE (US) or Lenovo™ Connect (EMEA) SIM card

### SIM card (opt)

### Dimensions

- Base Dimensions: 14.40” x 9.95” x 0.79-0.80”; 365.8mm x 252.8mm x 19.95-20.2mm

### Weight

- Starting at 3.43 lb / 1.97 kg

### Case color

- Black

### Case material

- Display cover: Glass-Fiber Reinforced Plastic (PPS);
- Bottom: Glass-Fiber Reinforced Plastic

### Smart card reader

- Optional: Smart card reader

### Media reader

- 4-in-1 reader (MMC, SD, SDHC, SDXC), supports SD 3.0, UHS-I

### Ports

- Three USB 3.1 Gen 1 (USB 3.0, one Always On), USB 3.1 Type-C Gen 2 / Thunderbolt 3 (w/ the function of Power Delivery and DP), HDMI 1.4b, Ethernet (RJ-45), Dock connector
  * Depending on many factors, actual data transfer speed may be lower than theoretical speed

### WiGig dock (opt)

- ThinkPad WiGig dock (US only)

### Monitor cable (optional)

- Lenovo HDMI to VGA Monitor Adapter
- USB-C to VGA: Lenovo USB-C to VGA Adapter

### Camera (optional)

- HD720p: HD720p resolution, fixed focus

### Audio support

- HD Audio, Realtek ALC3268 codec / stereo speakers, 2W x 2 /
dual array microphone, combo audio/microphone jack

### Keyboard

- 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

### Security

- Power-on password, hard disk password, supervisor password, security keyhole
- Security chip
- vPro (optional)
- Intel vPro Technology
- Fingerprint reader
- Optional: Touch style match on chip fingerprint reader on the palm rest
- NFC (optional)
- Near Field Communication

### Internal battery

- Optional: Integrated Li-Polymer 4-cell (32Wh)
- Li-Polymer 3-cell (24Wh) or Li-ion 6-cell (48Wh or 72Wh)

### External battery

- Max battery life (MobileMark® 2014)
- Models
  - 4 + 3-cell: 6-cell 48Wh
  - 4 + 6-cell 48Wh
  - 4 + 6-cell 72Wh

### Preload

- Windows® 7 Professional 64 preinstalled
- Windows® 10 Pro 64
- Lenovo Solution Center
- Lenovo PowerEngage
- ThinkVantage Product Recovery
- ThinkVantage System Update
- Adobe® Reader®
- Microsoft® Office preloaded;
- Lenovo Companion
- Lenovo Setting
- Microsoft Office preloaded;
- purchase a product key to activate
- MIL-Spec test MIL-STD-810G military certification

### Environment

- EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

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Lenovo

April 2019
**ThinkPad T580 Platform Specifications**

<table>
<thead>
<tr>
<th>Processor</th>
<th>7th Generation Intel® Core™ i5 Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor Number</td>
<td>2</td>
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<tr>
<td># of Cores</td>
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<tr>
<td>Base Frequency</td>
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<td>Max Turbo Frequency</td>
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<tr>
<td>Cache</td>
<td>3MB</td>
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<tr>
<td>Memory Types</td>
<td>DDR4-2133</td>
</tr>
<tr>
<td>Processor Graphics</td>
<td>Intel HD Graphics 620</td>
</tr>
</tbody>
</table>

or 8th Generation Intel Core i5 / i7 Processor

| Processor Number | 2 |
| # of Cores | 4 |
| Base Frequency | 1.6 GHz |
| Max Turbo Frequency | 3.4 GHz |
| Cache | 6MB |
| Memory Types | DDR4-2400 |
| Processor Graphics | Intel UHD Graphics 620 |

**Graphics**

Intel HD Graphics 620 or Intel UHD Graphics 620 in processor only or Intel HD Graphics 620 or Intel UHD Graphics 620 in processor and NVIDIA® GeForce® MX150, 2GB GDDR5 memory supports external digital monitor via HDMI or USB Type-C supports three independent displays, Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

**Chipset**

Intel SoC (System on Chip) platform supports two DDR4 SO-DIMM sockets

**Display**

Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle

Some: 15.6" (396mm) UHD (3840x2160), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 72% gamut, 170° viewing angle

**Multi-touch (opt)**

On-cell touch, supports 10-finger gesture (FHD only)

**Storage**

System has one HDD slot or one M.2 2280 slot exclusively for storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™

Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s

Some: 128GB M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN

**Optane™ memory (opt)**

Optional: Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2

**Ethernet**

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

**WWAN (optional)**

One of the following, configurable by model:

- Integrated Mobile Broadband 4G LTE, Intel XMM™ 7262 (Fibocom L830-EB), M.2 card (EMEA only)
- Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card

For non-WWAN model, it means the model is NOT WWAN upgradable

**SIM card (opt)**

Nano-SIM card slot, optional Verizon LTE (US) SIM card

**Note:** The specifications above may not be available in all regions.
# ThinkPad T590 Platform Specifications

**Product Specifications Reference (PSREF)**

## Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i5-8265U</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>3.9 GHz</td>
<td>8MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>i5-8365U</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>4.1 GHz</td>
<td>8MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>i7-8565U</td>
<td>4</td>
<td>8</td>
<td>1.8 GHz</td>
<td>4.6 GHz</td>
<td>8MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>i7-8665U</td>
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<td>8</td>
<td>1.9 GHz</td>
<td>4.8 GHz</td>
<td>8MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
</tbody>
</table>

## Graphics

Intel UHD Graphics 620 in processor only or Intel UHD Graphics 620 in processor and NVIDIA® GeForce® MX250, 2GB GDDR5 memory; supports external digital monitor via HDMI or Thunderbolt; supports three independent displays; Max resolution: 4096x2304 @60Hz (Thunderbolt); 4096x2160 @24Hz (HDMI)

## Chipset

Intel SoC (System on Chip) platform

## Memory

4GB max / 2400MHz DDR4, dual-channel capable, 8GB or 16GB memory soldered to system board, one DDR4 SO-DIMM socket *Installed memory is actually 2666MHz but run at 2400MHz due to Intel limitation

## Display

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution Type</th>
<th>Surface</th>
<th>Brightness</th>
<th>Aspect Ratio</th>
<th>Contrast Ratio</th>
<th>Color Gamut</th>
<th>Viewing Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.6&quot;</td>
<td>FHD (1920x1080)</td>
<td>IPS</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>700:1</td>
<td>45%</td>
<td>170°</td>
</tr>
<tr>
<td>15.6&quot;</td>
<td>UHD (3840x2160)</td>
<td>IPS</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1200:1</td>
<td>100%</td>
<td>170°</td>
</tr>
</tbody>
</table>

## Multi-touch (opt)

On-cell touch, supports 10-finger gesture (FHD only)

## Storage

- M.2 2280 SSD / SATA 6.0Gb/s
- M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4
- M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2

## Optane™ memory

Optional: Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2

## Optical

None

## Ethernet

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)

vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

## WLAN (optional)

Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0

## Bluetooth™

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

## WWAN (optional)

One of the following, configurable by model:

- Wireless WAN upgradable
- Integrated Mobile Broadband 4G LTE, Fibocom LB30-E, M.2 card (EMEA only)
- Integrated Mobile Broadband 4G LTE-A, Fibocom LB50-GL, M.2 card

*For non-WWAN model, it means the model is NOT WWAN upgradable

## Dimensions

| WxDxH: | 14.40" x 9.76" x 0.79"; 365.8mm x 248.0mm x 19.95mm |

## Weight

- FHD model: 3.87 lb / 1.75 kg
- UHD model: 3.86 lb / 1.75 kg

## Case color

Black

## Case material

Display cover: PPS / 50% GF; Bottom: PA / 50% GF

## Smart card reader

Optional: Smart card reader

## Media reader

MicroSD card reader

## Ports

- Two USB 3.1 Gen 1 (one Always On)
- one USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort)
- one USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of PD and DP)
- HDMI 1.4b, Ethernet (RJ-45), nano-SIM card slot (WWAN models), headphone / microphone combo jack, optional smart card reader, microSD card reader, side docking connector, security keyhole

## Monitor cable (optional)

- USB-C to VGA: Lenovo USB-C to VGA Monitor Adapter
- USB-C to DisplayPort: Lenovo USB-C to DisplayPort Adapter

## Bundled Acce

None

## Camera (optional)

One of the following, configurable by model:

- HD720p camera with ThinkShutter camera privacy, fixed focus
- HD720p camera with ThinkShutter camera privacy, fixed focus

## Audio support

- HD Audio, Realtek ALC3287 codec / stereo speakers, 2x2, Dolby® Audio™ Premium
- dual array far-field microphone, headphone / microphone combo jack

## Keyboard

6-row, spill-resistant, multimedia F7 keys, numeric keypad, optional LED backlight UltraNav™ TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

## Security

Power-on password, hard disk password, supervisor password, security keyhole

## Security chip

Discrete TPM 2.0, TCG Certified Intel vPro Technology

## System Mgt (opt)

Intel vPro Technology

## Fingerprint reader (opt)

Optional: Touch style match on chip fingerprint reader on the palm rest

## Battery

Integrated 4x7Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

## Max battery life

MobileMark® 2014: 14.98 hr (9.5 hr for UHD model with discrete graphics)

## AC adapter

- 45W or 65W USB Type-C AC adapter
- 45W or 65W HP USB Type-C AC adapter

## Preload

Windows® 10 Home 64 or Windows 10 Pro 64

## Limited warranty

One of the following, configurable by model:

- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service

## Mil-Spec test

MIL-STD-810G military certification

## Environment

EPEAT® Bronze; ENERGY STAR® 7.0; RoHS-compliant

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

Lenovo
May 2019
# ThinkPad X1 Carbon (5th Gen) Platform Specifications

## Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
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<tbody>
<tr>
<td>i5-6200U</td>
<td>2</td>
<td>4</td>
<td>2.3 GHz</td>
<td>2.8 GHz</td>
<td>3MB</td>
<td>LPDDR3-1866</td>
<td>Intel HD Graphics 520</td>
</tr>
<tr>
<td>i5-6300U</td>
<td>2</td>
<td>4</td>
<td>2.4 GHz</td>
<td>3.0 GHz</td>
<td>3MB</td>
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<td>4</td>
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<td>4MB</td>
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<td>Intel HD Graphics 620</td>
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<td>i7-6600U</td>
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<td>4</td>
<td>2.6 GHz</td>
<td>3.4 GHz</td>
<td>4MB</td>
<td>LPDDR3-1866</td>
<td>Intel HD Graphics 620</td>
</tr>
</tbody>
</table>

## Graphics

- Intel HD Graphics 520 or 620 in processor;
- Supports external digital monitor via HDMI or USB Type-C;
- Supports three independent displays;
- Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@24Hz (HDMI)

## Chipset

- Intel SoC (System on Chip) platform
- 8GB or 16GB / 1866MHz LPDDR3 / soldered to system board, no sockets

## Display

- **Some:** 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle
- **Some:** 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle

## Storage

- **None**
- **M.2 SSD / SATA 6.0Gb/s (e.g. 128GB SSD M.2)
- **M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. 256GB SSD M.2 PCIe NVMe)**

## Optical

- **None**

## Ethernet

- Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro)
- Bundled or optional ThinkPad Ethernet Extension Cable

## WLAN

- One of the following, configurable by model (WiGiG can coexist with WWAN):
  - Intel Dual Band Wireless-AC 8260, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
  - Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
  - Intel Tri-Band Wireless-AC 18265, WiGig 802.11ad + Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
  - Bluetooth 4.1, wireless, integrated in Wi-Fi + Bluetooth combo adapter
  
## WWAN (optional)

- Integrated Mobile Broadband 4G LTE-A, Qualcomm Snapdragon™ X7 LTE-A (Sierra Wireless EMT7455)

## SIM card (optional)

- Micro-SIM card slot, optional Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card

## Dimensions

- **Width x Height:** 12.74" x 8.55" x 0.63"; 323.5mm x 217.1mm x 15.95mm
- **Weight:** Starting at 2.49 lb / 1.13 kg

## Case color

- Black or Silver (silver is NOT available in EMEA)

## Case material

- **Display cover:** CFPR/GFPR hybrid
- **Bottom:** magnesium alloy hybrid

## Processor Specifications Reference (PSREF)

- Lenovo
- April 2019

## Chipset

- **Base Frequency:** 2.5 GHz
- **Max Turbo Frequency:** 3.1 GHz
- **Cache:** 3MB
- **Memory Types:** LPDDR3-1866
- **Processor Graphics:** Intel HD Graphics 520

## Display

- **14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 700:1 contrast ratio, 170° viewing angle**
- **14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 700:1 contrast ratio, 170° viewing angle**

## Security

- Power-on password, hard disk password, supervisor password, security keyhole
- Discrete TPM 2.0, TCG Certified

## Preload

- Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo PowerEngage
- ThinkVantage System Update
- Adaptec®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

## Limited warranty

- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1-year battery depot repair service
  - 3-year/1-year battery limited onsite service

## Mil-Spec test

- MIL-STD-810G military certification

## Environment

- EPEAT® Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

---

**Note:** Depending on many factors, actual data transfer speed may be lower than theoretical speed.
## ThinkPad X1 Carbon (6th Gen) Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
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<tbody>
<tr>
<td>i5-7300U</td>
<td>2</td>
<td>4</td>
<td>2.6 GHz</td>
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<td>3MB</td>
<td>LPDDR3-1866</td>
<td>Intel HD Graphics 620</td>
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</table>

or 8th Generation Intel Core i5 / i7 Processor

<table>
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<tr>
<th>Processor Number</th>
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<th>Max Turbo Frequency</th>
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<td>i5-8350U</td>
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<td>1.7 GHz</td>
<td>3.6 GHz</td>
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<tr>
<td>i7-8650U</td>
<td>4</td>
<td>8</td>
<td>1.9 GHz</td>
<td>4.2 GHz</td>
<td>8MB</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Graphics

Intel HD Graphics 620 or Intel UHD Graphics 620 in processor; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 5120x2880 @ 60Hz (USB Type-C); 4096x2160 @ 30Hz (HDMI)

### Chipset

Intel SoC (System on Chip) platform

### Memory

- 8GB or 16GB / 2133MHz LPDDR3 / soldered to systemboard, no sockets
- * System clocks down for processors with lower memory controller

### Display

One of the following, configurable by model:
- 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle
- 14.0" (355mm) QHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle
- 14.0" (355mm) HDR QHD (2560x1440) with Dolby Vision®, glossy, LED backlight, IPS, 500 nits, 16:9 aspect ratio, 1500:1 contrast ratio, 100% gamut, 170° viewing angle

### Multi-touch

On-cell touch, supports 10-finger gesture (FHD only)

### Storage

One of the following, configurable by model:
- M.2 SSD / SATA 6.0Gb/s (e.g. 1x64GB SSD M.2)
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. 1x32GB M.2 PCIe NVMe)

### Optane™ memory

None

### Optical

None

### Ethernet

Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via bundled or optional ThinkPad Ethernet Adapter Gen 2

### WLAN + Bluetooth™

Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
- * Intel 8265ac card supports BT 4.2 but is limited to BT 4.1 by Windows OS

### WWAN (optional)

Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card
- * For non-WWAN model, it means the model is NOT WWAN upgradable

### SIM card (optional)

Nano-SIM card slot, optional Verizon LTE (US) SIM card

### Dimensions

**WxDxH:** 12.74" x 8.55" x 0.63"; 323.5mm x 217.1mm x 15.95mm

### Weight

Starting at 2.49 lb / 1.13 kg

### Case color

Black or Silver (silver case is NOT available in EMEA)

### Case material

Display cover: CFRP/GFRP hybrid;
Bottom: magnesium alloy / PPS hybrid

### Smart card reader

None

### Media reader

MicroSD card reader, supports UHS-II

### Ports

- Two USB 3.1 Gen 1 (one Always On), two USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of Power Delivery and DisplayPort), HDMI 1.4b, Ethernet extension connector, nano-SIM card slot (WWAN models), headphone / microphone combo jack, microSD card reader, side docking connector, security keyhole
- * Depending on many factors, actual data transfer speed may be lower than theoretical speed

### Monitor cable (optional)

HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter

### Bundled Accy

Optional: ThinkPad Ethernet Extension Adapter Gen 2

### Camera

One of the following, configurable by model:
- HD720p camera with ThinkShutter camera privacy, fixed focus
- IR camera and HD720p camera, fixed focus

### Audio support

HD Audio, Realtek ALC3286 codec / stereo speakers, 1W x 2, Dolby Audio™ Premium / dual array microphone, headphone / microphone combo jack, Dolby Atmos™ via headphoens

### Keyboard

6-row, spill-resistant, multimedia Fn keys, LED backlight

### UltraNav™

6-point, pointing device and buttonless Glass surface multi-touch touchpad

### Security

Power-on password, hard disk password, supervisor password, security keyhole

### Security chip

- Discrete TPM 2.0, TCG Certified
- Intel vPro Technology
- Fingerprint reader: Touch style match on chip fingerprint reader on the palm rest, anti-spoofing technology

### NFC (optional)

Near Field Communication

### Battery

Integrated Li-ion 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

### Max battery life

- * Battery life varies significantly with settings, usage, & other factors
- MobileMark® 2014: 19.3 hr

### AC adapter

- MobileMark® 2014: 19.3 hr
- 45W or 65W USB Type-C AC adapter

### Preload

Windows® 10 Home 64 or Windows 10 Pro 64

### Limited warranty

One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service

### MIL-Spec test

MIL-STD-810G military certification

### Environment

EPEAT® Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

Lenovo
April 2019
## ThinkPad X1 Extreme Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
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</thead>
<tbody>
<tr>
<td>i5-8300H</td>
<td>4</td>
<td>8</td>
<td>2.3 GHz</td>
<td>4.0 GHz</td>
<td>8 MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
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<tr>
<td>i5-8400H</td>
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<td>2.5 GHz</td>
<td>4.2 GHz</td>
<td>8 MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
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<td>i7-8750H</td>
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<td>Intel UHD Graphics 630</td>
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<td>i7-8850H</td>
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<td>12</td>
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<td>4.3 GHz</td>
<td>9 MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
</tbody>
</table>

### Graphics

- Intel UHD Graphics 630 in processor and NVIDIA® GeForce® GTX 1050 Ti Max-Q, 4GB GDDR5 memory; supports external digital monitor via HDMI or Thunderbolt®.
- Supports four independent displays; Max resolution: 5120x2880@30Hz (Thunderbolt); 4096x2160@60Hz (HDMI)

### Chipset

- Mobile Intel CM246 Chipset

### Display

- **Some:** 15.6” (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle
- **Some:** 15.6” (396mm) HDR 4K (3840x2160) with Dolby Vision™, anti-glare, LED backlight, IPS, 400 nits, 16.9 aspect ratio, 1200:1 contrast ratio, 100% gamut, 170° viewing angle, multi-touch, anti-reflection (AR)

### Multi-touch (opt)

- Capacitive-type multi-touch, supports 10-finger gesture (4K only)

### Pen

- Supports pen accessory; please see the accessory compatibility for details

### Storage

- **M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2)
- **M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxGB SSD M.2 PCIe NVMe)

### Optane™ memory (optional)

- None

### Optical

- None

### Ethernet

- Native Intel Ethernet Connection i219-V (Non-vPro) or i219-LM (vPro)) via bundled or optional ThinkPad Ethernet Extension Cable

### WLAN

- Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card
- Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

### WWAN

- None

### Dimensions

- **WxDxH (non-touch):** 14.24” x 9.67” x 0.72”; 361.8mm x 245.7mm x 18.4mm
- **WxDxH (multi-touch):** 14.24” x 9.67” x 0.74”; 361.8mm x 245.7mm x 18.7mm

### Weight

- **Non-touch model:** starting at 3.76 lb (1.7 kg)
- **Multi-touch model:** starting at 4.06 lb (1.8 kg)

### Case color

- Black

### Case material

- Display cover: CFPRP/GFRP hybrid
- Bottom: Aluminum alloy

### Power

- **Smart card reader:** Optional
- **Media reader:** SD Card reader (SD, SDHC, SDXC), supports UHS-II SD card
- **Ports:**
  - Two USB 3.1 Gen 1 (one Always On)
  - Two USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of Power Delivery and DisplayPort), HDMI 2.0, Ethernet extension connector, headphone / microphone combo jack, optional smart card reader, 4-in-1 reader (MMC, SD, SDHC, SDXC), security keyhole
  - *Depending on many factors, actual data transfer speed may be lower than theoretical speed
- **Monitor cable:** Optional
  - **USB-C to DP:** Lenovo USB-C to DisplayPort Adapter
  - **Bundled Accy:** Optional
  - **ThinkPad Ethernet Extension Cable**
- **Camera (optional):** One of the following, configurable by model:
  - HD720p camera with ThinkShutter camera privacy, fixed focus
  - IR camera and HD720p camera, fixed focus
- **Audio support:**
  - HD Audio, Realtek® ALC3266 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo jack, Dolby Atmos® headphone
- **Keyboard**:
  - 6-row, spill-resistant, multimedia Fn keys, LED backlight
- **TrackPoint® pointing device and buttonless glass surface multi-touch touchpad**
- **Security:**
  - Security chip
  - VPro (optional)
  - Fingerprint reader
  - Touch style match on chip fingerprint reader on the keyboard bezel
- **Color calibration:** NFC
- **Battery:** Integrated Li-ion 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
  - Hybrid mode: 9.5 hr
- **Battery life:** varies significantly with settings, usage, & other factors
- **Power adapter:** 33W slim tip AC adapter

### Software

- **Preload:** Windows® 10 Home 64 or Windows 10 Pro 64

### Limited warranty

- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1-year battery depot repair service
  - 3-year/1-year battery limited onsite service

### Mil-Spec test

- MIL-STD-810G military certification

### Environment

- EPEAT™ Gold (US only); ENERGY STAR® 7.0; RoHS-compliant

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**Note:** The specifications above may not be available in all regions.
ThinkPad X270 Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Graphics</th>
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<td>DDR4-2133</td>
<td>Intel HD Graphics 520</td>
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<td>2.5 GHz</td>
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<td>Intel HD Graphics 620</td>
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<td>4</td>
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<td>3.4 GHz</td>
<td>4MB</td>
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<td>Intel HD Graphics 620</td>
</tr>
</tbody>
</table>

or 7th Generation Intel Core i3 / i5 / i7 Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
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<td>4MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
</tbody>
</table>

### Highlights

- 6th Generation Intel® Core™ i3 / i5 / i7 Processor
- DDR4 memory
- Intel HD Graphics 520 or 620
- Black or White (optional)
- 6-row, spill-resistant, multimedia Fn keys
- 1 Year Depot repair service
- Optional: Smart card reader

### Graphics

- Intel HD Graphics 520 or 620 in processor
- Supports external digital monitor via HDMI or USB Type-C
- Supports three independent displays
- Max resolution: 4096x2160 @ 60Hz (USB Type-C); 4096x2160 @ 24Hz (HDMI)

### Chipset

- Intel SoC (System on Chip) platform
- 16GB max / 2400MHz DDR4, one DDR4 SO-DIMM socket
* System clocks down for processors with lower memory controller

### Display

- 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
- Some: 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 170° viewing angle
- Some: 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 170° viewing angle

### Storage

- System has one HDD slot or one M.2 SSD slot
- Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
- Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high (e.g. xxxGB SSD)
- Some: 2.5 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s
- Some: 128GB M.2 SSD / SATA 6.0Gb/s, in WWAN slot as 2nd Storage, 220 nits, 16:9 aspect ratio, 170° viewing angle

### Optical

- Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
- vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

### Ethernet

- Intel Ethernet Connection I219-LM (Jacksonville)

### WLAN

- One of the following, configurable by model (WiGig is mutually exclusive with WWAN):
  - Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + BT4.1
  - Intel Dual Band Wireless-AC 8260, Wi-Fi 2x2 802.11ac + BT4.1
  - Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1
  - Intel Tri-Band Wireless-AC 18265, WiGig 2.11ad + Wi-Fi 2x2 802.11ac + BT4.1 (US only)
- Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

### Bluetooth™

- Intel 8265ac / 18265ac card support BT4.2 but is limited to BT4.1 by Windows OS

### WWAN (optional)

- One of the following, configurable by model (mutually exclusive with WiGig):
  - Wireless WAN upgradable
  - Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455)
  - Integrated Mobile Broadband 4G LTE, Intel XMM™ 7160 (Fibocom L831-EAU) (EMEA only)

### SIM card (optional)

- Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card

### Security

- Power-on password, hard disk password, supervisor password, security keyhole
- Windows 10 Pro 64; Lenovo Solution Center
- ThinkVantage System Update
- ThinkVantage Product Recovery
- McAfee
- Lenovo Companion
- Lenovo Setting
- Microsoft Office preloaded
- purchase a product key to activate

### Warranty

- 1 Year Depot repair service
- 1-year battery depot repair service
- 3-year/battery limited onsite service

### Environmental

- EPEAT® Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

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Lenovo
April 2019
## ThinkPad X280 Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
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</thead>
<tbody>
<tr>
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<tr>
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<td>3.4 GHz</td>
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<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
</tbody>
</table>

### Graphics

- HD Graphics 620 or Intel UHD Graphics 620 in processor
- Supports external digital monitor via HDMI or USB Type-C
- Supports three independent displays
- Max resolution: 4096x2304 @ 60Hz (USB Type-C); 4096x2160 @ 30Hz (HDMI)

### Chipset

- Intel SoC (System on Chip) platform
- 4GB, 8GB, or 16GB / 2400MHz DDR4 / soldered to systemboard, no sockets
  - *4GB memory is NOT available in US and EMEA
  - *System clocks down for processors with lower memory controller

### Display

- **Some:** 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio
- **Some:** 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle

### Multi-touch (opt)

- On-cell touch, supports 10-finger gesture (FHD only)
- *FHD non-touch model is NOT available in US

### Storage

- One of the following, configurable by model:
  - M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2)
  - M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32GB/s (e.g. xxxGB SSD M.2 PCIe NVMe)

### Optane™ memory

- None

### Optical

- None

### Ethernet

- Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro)
- Via bundled or optional ThinkPad Ethernet Extension Adapter Gen 2

### WLAN + Bluetooth™

- Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
- * Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS

### WWAN (optional)

- One of the following, configurable by model:
  - Integrated Mobile Broadband 4G LTE, Intel XMM™ 7360 (Fibocom L830-EB), M.2 card (EMEA only)
  - Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card
  - MobileMark 2014: 16.6 hr
  - *Battery life varies significantly with settings, usage, & other factors

### SIM card (opt)

- Nano-SIM card slot, in the combo slot with microSD card reader, optional Verizon LTE (US) SIM card

### Camera

- Camera (optional): One of the following, configurable by model:
  - HD720p camera with ThinkShutter camera privacy, fixed focus
  - IR camera and HD720p camera, fixed focus
  - HD Audio, Realtek® ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio® Premium / dual array microphone, headphone / microphone combo jack

### Audio support

- Power-on password, hard disk password, supervisor password, security keyhole
- Discrete TPM 2.0, TCG Certified
- Touch style match on chip fingerprint reader on the palm rest, anti-spoofing technology

### Security chip

- Security chip

### Fingerprint reader

- Fingerprint reader (optional): Touch style match on chip fingerprint reader on the palm rest, anti-spoofing technology

### Battery

- Integrated Li-ion 48Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter
- *Battery life varies significantly with settings, usage, & other factors

### AC adapter

- 45W or 65W USB Type-C AC adapter

### Preload

- Windows® 10 Home 64 or Windows 10 Pro 64

### Limited warranty

- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1-yr battery depot repair service
  - 3-year/1-yr battery limited onsite service

### Mil-Spec test

- MIL-STD-810G military certification

### Environmental specifications

- EPEAT Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

---

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

April 2019
ThinkPad X390 Platform Specifications

Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Graphics</th>
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<tbody>
<tr>
<td>i3-8145U</td>
<td>2</td>
<td>4</td>
<td>2.1 GHz</td>
<td>3.9 GHz</td>
<td>4MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
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<tr>
<td>i5-8265U</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>3.9 GHz</td>
<td>6MB</td>
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<td>Intel UHD Graphics 620</td>
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<td>4.8 GHz</td>
<td>8MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
</tbody>
</table>

Chipset

Intel SoC (System on Chip) platform supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2304 @ 60Hz (Thunderbolt); 4096x2160 @ 24Hz (HDMI)

Graphics

Intel UHD Graphics 620 in processor; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2304 @ 60Hz (Thunderbolt); 4096x2160 @ 24Hz (HDMI)

Display

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution Type</th>
<th>Surface</th>
<th>Brightness</th>
<th>Aspect Ratio</th>
<th>Contrast Ratio</th>
<th>Color Gamut</th>
<th>Viewing Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.3&quot; HD</td>
<td>(1366x768)</td>
<td>TN</td>
<td>250 nits</td>
<td>16:9</td>
<td>300:1</td>
<td>45%</td>
<td>170°</td>
</tr>
<tr>
<td>13.3&quot; FHD</td>
<td>(1920x1080)</td>
<td>IPS</td>
<td>300 nits</td>
<td>16:9</td>
<td>1200:1</td>
<td>72%</td>
<td>170°</td>
</tr>
<tr>
<td>13.3&quot; FHD</td>
<td>(1920x1080)</td>
<td>ThinkPad Privacy Guard</td>
<td>400 nits</td>
<td>16:9</td>
<td>1000:1</td>
<td>72%</td>
<td>178°</td>
</tr>
</tbody>
</table>

Multi-touch (optional)

On-cell touch, supports 10-finger gesture (FHD only)

Storage

- M.2 2280 SSD / SATA 6.0Gb/s
- M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4
- M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2

Optane™ Memory

Optional: Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2

Optical

None

Ethernet

Native Intel Ethernet Connection i219-V (Non-vPro) or i219-LM (vPro) via bundled or optional ThinkPad Ethernet Extension Adapter Gen 2

WLAN (optional)

One of the following, configurable by model:
- Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0
- Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.0

Bluetooth™

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

WWAN (optional)

One of the following, configurable by model:
- Integrated Mobile Broadband 4G LTE, Fibocom L830-EB, M.2 card (EAME only)
- Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card

* For non-WWAN model, it means the model is NOT WWAN upgradable

Dimensions

<table>
<thead>
<tr>
<th>Models</th>
<th>FHD Non-touch</th>
<th>HD / FHD Multi-touch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Fiber</td>
<td>311.9mm x 217.0mm x 16.5mm</td>
<td>12.28&quot; x 8.54&quot; x 0.65&quot;</td>
</tr>
<tr>
<td>PPS</td>
<td>312.0mm x 217.2mm x 16.9mm</td>
<td>12.28&quot; x 8.55&quot; x 0.67&quot;</td>
</tr>
</tbody>
</table>

Weight

<table>
<thead>
<tr>
<th>Models</th>
<th>FHD Non-touch</th>
<th>HD / FHD Multi-touch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Fiber</td>
<td>2.70 lb / 1.22 kg</td>
<td>2.93 lb / 1.33 kg</td>
</tr>
<tr>
<td>PPS</td>
<td>2.85 lb / 1.29 kg</td>
<td>2.84 lb / 1.28 kg</td>
</tr>
</tbody>
</table>

Case color

Black

Case material

Display cover: Carbon Fiber (FHD non-touch only) or PPS; Bottom: Magnesium/Aluminum

Smart card reader

Optional: Smart card reader

Media reader

- MicroSD card reader, in the combo slot with nano-SIM card
- Two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort), one USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of PD and DP), HDMI 1.4b, Ethernet extension connector, combo slot of nano-SIM card (WWAN models) and microSD card reader, headphone / microphone combo jack, optional smart card reader, side docking connector, security keyhole

Monitor cable

( optional)

HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
USB-C to VGA: Lenovo USB-C to VGA Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter
Optional: ThinkPad Ethernet Extension Adapter Gen 2

Bundled Accy

Coating: Premimum / UltraNav™
Audio support

HD Audio, Realtek® ALC3287 codec / stereo speakers, 1W x 2. Dolby® Audio™ Premium / dual array far-field microphone, headphone / microphone combo jack

Camera (optional)

One of the following, configurable by model:
- HD720p camera with ThinkShutter camera privacy, fixed focus
- IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus

Audio support

HD Audio, Realtek® ALC3287 codec / stereo speakers, 1W x 2. Dolby® Audio™ Premium / dual array far-field microphone, headphone / microphone combo jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™

TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

Security

- Power-on password, hard disk password, supervisor password, security keyhole
- Intel vPro Technology
- Discrete TPM 2.0, TCG Certified

Fingerprint reader

Optional: Touch style match on chip fingerprint reader on the palm rest

NFC (optional)

Near Field Communication

Battery

Integrated Li-ion 48Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

Max battery life

* Battery life varies significantly with settings, usage, & other factors

AC adapter

45W or 65W USB Type-C AC adapter

Preload

Windows® 10 Home 64 or Windows 10 Pro 64

Limited warranty

One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1yr battery depot repair service
- 3-year/1yr battery limited onsite service

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT® Bronze; ENERGY STAR® 7.0; RoHS-compliant

Lenovo

April 2019
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Limited warranty: Support unrelated to a warranty issue may be subject to additional charges.

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**Carry-in or Mail-in Service:** Parts and labor repair coverage where the customer is responsible for shipping (including packaging) or delivery to authorized warranty provider or repair center.

**Depot or Courier Service:** Parts and labor repair coverage where shipping (including packaging) or delivery to the repair center is paid for by Lenovo.

**Expedited Depot:** Parts and labor coverage with expedited turnaround. Shipping (including packaging) or delivery to the repair center is paid for by Lenovo.

**Onsite / In-home Service:** Parts and labor repair coverage where labor is provided onsite at your place of business.

If Lenovo determines your product problem is covered by the product warranty and cannot be resolved over the telephone, a technician will be dispatched to arrive onsite, typically the next day.


Visit www.lenovo.com/warranty for Lenovo Warranty Services terms and conditions for complete details and restrictions.

Included software: may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.

Battery life: Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.


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Lenovo 1009 Think Place Morrisville, NC 27560 U.S.A.
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</table>
Summary of Changes

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

December 26, 2018 - Version 535

Additions in this update

► New product(s)
  ThinkPad L390 Yoga

► New model(s)
  None

► Others
  None

Changes in this update

► None

Withdrawals in this update

► Withdrawn product(s)
  None
## ThinkPad X1 Tablet (2nd Gen) Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
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</thead>
<tbody>
<tr>
<td>m3-7Y30</td>
<td>2</td>
<td>4</td>
<td>1.0 GHz</td>
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<td>LPDDR3-1866</td>
<td>Intel HD Graphics 615</td>
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<td>5-7Y54</td>
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<td>4MB</td>
<td></td>
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</tr>
</tbody>
</table>

### Graphics

- Intel HD Graphics 615 in processor
- Supports 1080p video out via Mini DisplayPort connector

### Chipset

- Intel SoC (System on Chip) platform

### Memory

- 4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to system board, no sockets

### Multi-touch support

- Optional: ThinkPad Pen Pro, active pen for multi-touch display
- Opening angle up to 90 degrees

### Storage

- Some: M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD)
- Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)
- Optional: One microSD card slot supports up to 32GB microSDHC or 64GB microSDXC

### Display

- 12.0" (304.8mm) FHD+ (2160x1440), glossy, LED backlight, IPS, anti-finger print display with Corning® Gorilla® Glass, WideView (170° viewing), 360 nits, 3/2 aspect ratio, 800:1 contrast ratio
- Capacitive touch panel, supports ten-finger gesture

### Chipset

- Intel HD Graphics 615 in processor
- Supports 1080p video out via Mini DisplayPort connector

### Bluetooth

- Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo chip
- *Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS

### WLAN

- Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1, soldered M.2 chip
- Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo chip
- * SOME: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)

### WWAN (optional)

- Integrated Mobile Broadband 4G LTE-A, Qualcomm™ Snapdragon™ X7 LTE-A (Sierra Wireless EM7455)

### SIM card (optional)

- Nano-SIM card slot, opt Verizon LTE (US) or Lenovo™ Connect (EMEA) SIM card slot

### Dimensions

- Tablet only: 11.48" x 8.25" x 0.34"; 291.5mm x 209.5mm x 8.45mm
- Tablet + keyboard: 11.48" x 8.25" x 0.56"; 291.5mm x 209.5mm x 14.15mm

### Weight

- Tablet only: starting at 1.69 lb (0.77kg)
- Tablet+keyboard: starting at 2.35 lb (1.07kg)

### Case color

- Black

### Case material

- Mg + PCGF Hybrid

### Smart card reader

- None

### Media reader

- One microSD card slot (microSD, microSDHC, microSDXC)

### Ports

- One USB 3.1 Gen 1 / USB 3.0, one Mini DisplayPort, one USB 3.1 Type-C Gen 1 / Power Delivery 2.0, one Pogo keyboard connector, one cartridge connector for optional modules, one nano-SIM card slot

### Control buttons

- Power button, volume control button, reset switch
- WiGig dock: Optional: ThinkPad WiGig dock

### Monitor cable (optional)

- MiniDP to HDMI: Lenovo Mini DisplayPort to HDMI Monitor Cable

### Adapter (optional)

- USB-C to VGA: Lenovo USB C to VGA Plus Power Adapter
- USB-C to HDMI: Lenovo USB-C to HDMI Plus Power Adapter
- USB-C to HDMI: Lenovo USB-C to HDMI Plus Power Adapter

### Camera

- Front camera: 2.0-megapixel, fixed focus
- Rear camera: 8.0-megapixel, auto focus, flash LED

### Video capture

- 1080p video capture

### Audio support

- Realtek® ALC3268 codec / stereo speakers, 0.5W x 2 / three microphones, combo audio/microphone jack

### Pogo keyboard

- Magnetic attached thin keyboard, with TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch, backlit

### Keyboard color

- Black, red, or silver

### Security

- Kensington lock slot
- Security chip: Intel vPro Technology
- Finger print reader: Optional: Touch style Finger print reader
- NFC: None

### Module

- One of the following, configurable by model:
  - Productivity module, USB3.0 x 1, HDMI, OneLink+, 5 hrs battery (24Wh)
  - Presenter module, Pico projector, HDMI and 10W/hr battery for presenter

### Battery

- Li-Polymer 2-cell (37Wh) battery
- Max battery life: MobileMark® 2014: 10 hr (local video playback)

### AC adapter

- 45W or 65W USB Type-C AC adapter

### Preload

- Some: Windows 10 Pro 64
- Some: Windows 10 Home 64
- Lenovo Connect
- Lenovo Companion
- Lenovo Setting
- Lenovo Connect
- Lenovo Setting
- Microsoft® Office preloaded: purchase a product key to activate

### Limited warranty

- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1-yr battery depot repair service
  - 3-year/1-yr battery limited onsite service

### Mil-Spec test

- MIL-STD-810G military certification

### Environment

- EPEAT™ Gold, GREENGUARD, Low Halogen, RoHS

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Lenovo
August 2017
<table>
<thead>
<tr>
<th>Model</th>
<th>Region</th>
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<th>Memory</th>
<th>Display</th>
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<th>WWAN</th>
<th>SIM Card</th>
<th>Docking</th>
<th>Camera (Front / Rear)</th>
<th>Keyboard Docking</th>
<th>Pen</th>
<th>Fingerprint Reader</th>
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<tr>
<td>20JB0027US</td>
<td>US</td>
<td>Intel HD</td>
<td>vPro</td>
<td>Soldered</td>
<td>8GB</td>
<td>12&quot; FHD+ IPS</td>
<td>10-point Multi-touch</td>
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ThinkPad X1 Tablet (3rd Gen) Platform Specifications

**Processor**
- 8th Generation Intel® Core™ i5 / i7 Processor

**Graphics**
- Intel UHD Graphics 620 in processor, supports external digital monitor via USB Type-C

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

**Memory**
- 8GB, or 16GB / 2133MHz LPDDR3 / soldered to system board, no sockets

**Display**
- 13.0” (330mm) QHD+ (3000x2000), glossy, LED backlight, IPS, anti-finger print display with Corning® Gorilla® Glass, WideView (160° viewing), 400 nits, 3:2 aspect ratio, 1200:1 contrast ratio

**Multi-touch Pen**
- Optional: Lenovo Pen Pro or Lenovo Active Pen (ThinkPad Pen Pro) for multi-touch display

**Kick stand**
- Opening angle up to 170 degrees

**Storage**
- Some: M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD)
- Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCle NVMe)

**Optical Storage extension**
- One MicroSD card reader, in the combo slot with nano-SIM card, support UHS-I, microSDHC, microSDXC

**Ethernet**
- None

**WLAN**
- Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
- * Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS

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

**WWAN (optional)**
- Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455)

**SIM card (opt)**
- Nano-SIM card slot, in the combo slot with microSD card reader

**Dimensions**
- Tablet only: 11.97” x 8.9” x 0.35”; 304.1mm x 226mm x 8.9mm
- Tablet + keyboard: 11.97” x 8.9” x 0.57”; 304.1mm x 226mm x 14.4mm

**Weight**
- Tablet only: starting at 1.96 lb (0.89kg)
- Tablet + keyboard: starting at 2.8 lb (1.27kg)

**Smart card reader**
- None

**Ports**
- Two USB 3.1 Type-C Gen 1 / Thunderbolt 3 / Power Delivery 3.0, one Pogo keyboard connector, one Pen holder slot, headphone / microphone combo jack, combo slot of nano-SIM card (WWAN models) and microSD card reader

**Backup Battery**
- Integrated Li-Ion 42Wh battery

**Max battery life**
- MobileMark® 2014: 9.5 hr

**AC adapter**
- 45W or 65W USB Type-C AC adapter

**Audio support**
- Realtek ALC3278 codec / stereo speakers, 1W x 2 / two microphones, combo audio/microphone jack

**Camera**
- Front camera: 2.0-megapixel, fixed focus
- Rear camera: 8.0-megapixel, auto focus

**IR Camera**
- Optional: IR camera, fixed focus (Not available with NFC)

**Security**
- Optional: IR camera, fixed focus (Not available with NFC)

**Security chip**
- Intel vPro Technology

**Fingerprint reader**
- Optional: Touch style fingerprint reader, NFC (optional)

**Near Field Communication**
- Near Field Communication (Not available with the IR camera)

**Keyboard color**
- Black

**Pogo keyboard**
- Magnetic attached thin keyboard, with TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch, backlight

**Keyboard style**
- Optional: Hybrid dock

**Dock**
- Optional: Hybrid dock

**Monitor cable (opt)**
- None

**Adapter (optional)**
- USB-C to RJ45: Lenovo USB-C to Ethernet Adapter
- USB-C to VGA: Lenovo USB-C to VGA Plus Power Adapter
- USB-C to HDMI: Lenovo USB-C to HDMI Plus Power Adapter

**Battery**
- Integrated Li-Ion 42Wh battery

**Max battery life**
- MobileMark® 2014: 9.5 hr

**AC adapter**
- 45W or 65W USB Type-C AC adapter

**Light sensor**
- Ambient Light Sensor

**G-sensor**
- 3D accelerometer

**Compass**
- 3D compass

**Gyroscope**
- 3D gyrometer

**GPS**
- GPS function is integrated into WWAN module

**Preload**
- Some: Windows 10 Home 64
- Some: Windows 10 Pro 64

**Limited warranty**
- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1-yr battery depot repair service
  - 3-year/1-yr battery limited onsite service

**Mil-Spec test**
- MIL-STD-810G military certification

**Environment**
- EPEAT® Gold, GREENGUARD, Low Halogen, RoHS

**Lenovo**
- October 2018
| Model   | Region | Processor | vPro | Graphics | Memory | Display       | Multi-touch | Storage(HDD/SSD)             | WLAN + Bluetooth | WWAN | SIM Card | Docking | Camera (Front / Rear) | Keyboard Docking | Pen          | Fingerprint Reader Module | Power Adapter | Operating System | Warranty | Global | Ann Date (mm/yy) |
|---------|--------|-----------|------|----------|--------|---------------|-------------|-------------------------------|------------------|------|----------|---------|---------------------|------------------|-------------|----------------------|----------------|----------------|-----------|--------|
| 20KJ0017US | US     | i7-8650U  | vPro | Intel UHD 620 | 8GB Soldered | 13” QHD+ (3000x2000) IPS | 10-point Multi-touch | 256GB SSD M.2 PCIe NVMe Opal2 | 8265 ac, 2x2 + BT4.1 | None | None | None | 2.0MP / 8.0MP | Black Pogo Keyboard | Pen Pro | Fingerprint Reader | None | 65W USB-C | Win10 Pro 64 | 3-year, Depot | No | 03/18 |
| 20KJ0018US | US     | i7-8650U  | vPro | Intel UHD 620 | 16GB Soldered | 13” QHD+ (3000x2000) IPS | 10-point Multi-touch | 512GB SSD M.2 PCIe NVMe Opal2 | 8265 ac, 2x2 + BT4.1 | None | None | None | 2.0MP / 8.0MP | Black Pogo Keyboard | Pen Pro | Fingerprint Reader | None | 65W USB-C | Win10 Pro 64 | 3-year, Depot | No | 03/18 |
| 20KJ0019US | US     | i5-8350U  | vPro | Intel UHD 620 | 8GB Soldered | 13” QHD+ (3000x2000) IPS | 10-point Multi-touch | 256GB SSD M.2 PCIe NVMe Opal2 | 8265 ac, 2x2 + BT4.1 | None | None | None | 2.0MP / 8.0MP | Black Pogo Keyboard | Pen Pro | Fingerprint Reader | None | 65W USB-C | Win10 Pro 64 | 3-year, Depot | No | 03/18 |
| 20KJ001AUS | US     | i7-8650U  | vPro | Intel UHD 620 | 16GB Soldered | 13” QHD+ (3000x2000) IPS | 10-point Multi-touch | 256GB SSD M.2 PCIe NVMe Opal2 | 8265 ac, 2x2 + BT4.1 | Sierra EM7455 | None | None | None | 2.0MP / 8.0MP | Black Pogo Keyboard | Pen Pro | Fingerprint Reader | None | 65W USB-C | Win10 Pro 64 | 3-year, Depot | No | 03/18 |
| 20KJ001BUS | US     | i5-8250U  | No   | Intel UHD 620 | 8GB Soldered | 13” QHD+ (3000x2000) IPS | 10-point Multi-touch | 256GB SSD M.2 PCIe NVMe Opal2 | 8265 ac, 2x2 + BT4.1 | None | None | None | 2.0MP / 8.0MP | Black Pogo Keyboard | Pen Pro | Fingerprint Reader | None | 65W USB-C | Win10 Pro 64 | 3-year, Depot | No | 03/18 |
| 20KJ001CUS | US     | i7-8650U  | vPro | Intel UHD 620 | 16GB Soldered | 13” QHD+ (3000x2000) IPS | 10-point Multi-touch | 512GB SSD M.2 PCIe NVMe Opal2 | 8265 ac, 2x2 + BT4.1 | None | None | None | 2.0MP / 8.0MP | Black Pogo Keyboard | Pen Pro | Fingerprint Reader | None | 65W USB-C | Win10 Pro 64 | 3-year, Depot | No | 03/18 |
| 20KJ001DUS | US     | i5-8350U  | vPro | Intel UHD 620 | 8GB Soldered | 13” QHD+ (3000x2000) IPS | 10-point Multi-touch | 512GB SSD M.2 PCIe NVMe Opal2 | 8265 ac, 2x2 + BT4.1 | None | None | None | 2.0MP / 8.0MP | Black Pogo Keyboard | Pen Pro | Fingerprint Reader | None | 65W USB-C | Win10 Pro 64 | 3-year, Depot | No | 03/18 |
| 20KJ001EUS | US     | i7-8650U  | vPro | Intel UHD 620 | 16GB Soldered | 13” QHD+ (3000x2000) IPS | 10-point Multi-touch | 256GB SSD M.2 PCIe NVMe Opal2 | 8265 ac, 2x2 + BT4.1 | None | None | None | 2.0MP / 8.0MP | Black Pogo Keyboard | Pen Pro | Fingerprint Reader | None | 65W USB-C | Win10 Pro 64 | 3-year, Depot | No | 03/18 |
| 20KJ001FUS | US     | i5-8350U  | vPro | Intel UHD 620 | 8GB Soldered | 13” QHD+ (3000x2000) IPS | 10-point Multi-touch | 256GB SSD M.2 PCIe NVMe Opal2 | 8265 ac, 2x2 + BT4.1 | Sierra EM7455 | None | None | None | 2.0MP / 8.0MP | Black Pogo Keyboard | Pen Pro | Fingerprint Reader | None | 65W USB-C | Win10 Pro 64 | 3-year, Depot | No | 03/18 |
| 20KJ001GUS | US     | i7-8650U  | vPro | Intel UHD 620 | 16GB Soldered | 13” QHD+ (3000x2000) IPS | 10-point Multi-touch | 512GB SSD M.2 PCIe NVMe Opal2 | 8265 ac, 2x2 + BT4.1 | Sierra EM7455 | None | None | None | 2.0MP / 8.0MP | Black Pogo Keyboard | Pen Pro | Fingerprint Reader | None | 65W USB-C | Win10 Pro 64 | 3-year, Depot | No | 05/18 |
## ThinkPad L380 Yoga Platform Specifications

### Processor

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</table>

or 8th Generation Intel Core i5 / i7 Processor

### Graphics

- Intel HD Graphics 620 or Intel UHD Graphics 620 in processor; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

### Chipset Memory

- Intel SoC (System on Chip) platform
- 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

### Display

- 13.3" (338mm) FHD (1920x1080), glossy, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 800:1 contrast ratio, 170° viewing angle
- Capacitive-type multi-touch, AR (anti-reflection), supports 10-finger gesture
- Yoga hinge, 360 degree

### Multi-touch (opt) Hinge

- Convert-mode Pen: Laptop, tent, stand, yoga and tablet
- ThinkPad Pen Pro, active pen for multi-touch display, on-board garage

### Storage

- One of the following, configurable by model:
  - M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2)
  - M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32GB/s (e.g. xxxGB SSD M.2 PCIe NVMe)
  - None

### Optical

- Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro)

### Ethernet

- Native Intel Ethernet Connection

### WLAN + Bluetooth

- Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
- * Wireless card supports BT4.2 but is limited to BT4.1 by Windows OS

### WWAN

- None

### SIM card

- None

### Dimensions

- WxDxH: 12.67" x 8.82" x 0.74"; 322mm x 224.2mm x 18.8mm

### Weight

- Starting at 3.44 lb / 1.56 kg

### Case color

- Case material: Display cover: Aluminum
- Bottom: GFRP

### Camera

- 720p: HD720p resolution, low light sensitive, fixed focus
- IR & 720p: IR camera and HD720p camera, fixed focus
- World facing: 5MP resolution, auto focus

### Audio support

- HD Audio, Realtek ALC3287 codec, Dolby Premiere / stereo speakers, 2W x 2 / dual array microphone, headphone / microphone combo jack

### Keyboard

- 6-row, multimedia Fn keys, optional LED backlight
- UltraNav™ pointing device and buttonless Mylar surface touchpad, multi-touch

### Security

- Power-on password, hard disk password, supervisor password, security keyhole
- Intel vPro Technology
- Discrete TPM 2.0, TCG Certified
- Fingerprint reader: Optional; Touch style fingerprint reader on the keyboard bezel, anti-spoofing technology

### Security chip

- Security chip: Discrete TPM 2.0, TCG Certified

### Battery

- Integrated Li-Ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1 hr)
- MobileMark 2014: 12.85 hr
- * Battery life varies significantly with settings, usage, & other factors

### Preload

- Windows® 10 Home 64 or Windows 10 Pro 64

### Limited warranty

- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1-yr battery depot repair service
  - 3-year/1-yr battery limited onsite service

### Mil-Spec test

- MIL-STD-810G military certification

### Environment

- EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant

Lenovo

February 2018
<table>
<thead>
<tr>
<th>Model</th>
<th>Region</th>
<th>Processor</th>
<th>vPro</th>
<th>Graphics Memory</th>
<th>Memory</th>
<th>Display</th>
<th>Storage(HDD/SSD)</th>
<th>Optical</th>
<th>Multi-touch</th>
<th>WLAN + Bluetooth</th>
<th>Color</th>
<th>Camera (Front/WorldFacing)</th>
<th>Keyboard</th>
<th>Pen</th>
<th>Fingerprint Reader</th>
<th>NFC</th>
<th>TPM</th>
<th>Battery (internal)</th>
<th>Power Adapter</th>
<th>Operating System</th>
<th>Warranty</th>
<th>Ann Date (m/y)</th>
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### ThinkPad L390 Yoga Platform Specifications

#### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th>Cores</th>
<th>Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Graphics</th>
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<tr>
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<td>4</td>
<td>2.1 GHz</td>
<td>3.9 GHz</td>
<td>4MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
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<tr>
<td>i5-8265U</td>
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<td>8MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
</tbody>
</table>

#### Graphics

Intel UHD Graphics 620 in processor; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

#### Chipset

Intel SoC (System on Chip) platform

#### Memory

32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

#### Display

13.3” (338mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 801:1 contrast ratio, 72% gamut, 170° viewing angle

#### Multi-touch (opt)

Capacitive-type multi-touch, AR (anti-reflection), supports 10-finger gesture

#### Hinge

Yoga hinge, 360 degree

#### Multi-mode (opt)

Notebook, stand, tent, tablet

#### Pen (optional)

ThinkPad Pen Pro, active pen for multi-touch display, on-board garage

#### Storage

One of the following, configurable by model:
- M.2 SSD / SATA 6.0Gb/s
- M.2 (2242) SSD / PCIe NVMe, PCIe 3.0 x 2
- M.2 (2280) SSD / PCIe NVMe, PCIe 3.0 x 4

#### Optical

None

#### Ethernet

Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via optional ThinkPad Ethernet Extension Cable or Lenovo USB-C to Ethernet Adapter

#### WLAN

Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

#### WWAN

None

#### Processor

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<thead>
<tr>
<th>Processor</th>
<th>Cores</th>
<th>Threads</th>
<th>Frequency</th>
<th>Cache</th>
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#### Graphics

Intel UHD Graphics 620

#### Chipset

Intel SoC (System on Chip) platform

#### Memory

32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

#### Display

13.3” (338mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 801:1 contrast ratio, 72% gamut, 170° viewing angle

#### Multi-touch (opt)

Capacitive-type multi-touch, AR (anti-reflection), supports 10-finger gesture

#### Hinge

Yoga hinge, 360 degree

#### Multi-mode (opt)

Notebook, stand, tent, tablet

#### Pen (optional)

ThinkPad Pen Pro, active pen for multi-touch display, on-board garage

#### Storage

One of the following, configurable by model:
- M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2)
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxGB SSD M.2 PCIe NVMe)

#### Optical

None

#### Ethernet

Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via optional ThinkPad Ethernet Extension Cable or Lenovo USB-C to Ethernet Adapter

#### WLAN

Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

#### WWAN

None

### Product Specifications Reference (PSREF)

Lenovo
January 2019

### Processor

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### Graphics

Intel UHD Graphics 620 in processor; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

### Chipset

Intel SoC (System on Chip) platform

### Memory

32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

### Display

13.3” (338mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 801:1 contrast ratio, 72% gamut, 170° viewing angle

### Multi-touch (opt)

Capacitive-type multi-touch, AR (anti-reflection), supports 10-finger gesture

### Hinge

Yoga hinge, 360 degree

### Multi-mode (opt)

Notebook, stand, tent, tablet

### Pen (optional)

ThinkPad Pen Pro, active pen for multi-touch display, on-board garage

### Storage

One of the following, configurable by model:
- M.2 SSD / SATA 6.0Gb/s
- M.2 (2242) SSD / PCIe NVMe, PCIe 3.0 x 2
- M.2 (2280) SSD / PCIe NVMe, PCIe 3.0 x 4

### Optical

None

### Ethernet

Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via optional ThinkPad Ethernet Extension Cable or Lenovo USB-C to Ethernet Adapter

### WLAN

Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

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## ThinkPad X1 Yoga (2nd Gen) Platform Specifications

**Product Specifications Reference (PSREF)**

### Processor

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<th>7th Generation Intel® Core™ i5 / i7 Processor</th>
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<td>S-7700U</td>
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</table>

### Graphics

- Intel HD Graphics 620 in processor only.
- Supports external digital monitor via HDMI or USB Type-C.
- Supports three independent displays.
- Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@24Hz (HDMI)

### Chipset

- Intel SoC (System on Chip) platform

### Display

- **Some:** 14.0" (355mm) FHD (1920x1080), glossy, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle, IPS
- **Some:** 14.0" (355mm) Narrow Bezel FHD (1920x1080), glossy, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle, IPS
- **Some:** 14.0" (355mm) QHD (2560x1440), glossy, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle, IPS

### Multi-touch

- LED panel: Capacitive-type multi-touch, AR (anti-refl ection), AS (anti-smudge), supports 10-ﬁ nger gesture
- OLED panel: OCTA, AS (anti-smudge), supports 10-finger gesture

### Hinge

- Yoga hinge, 360 degree
- Convert-mode: Laptop, tent, stand, and tablet
- ThinkPad Pen Pro, active pen for multi-touch display

### Storage

- Some: M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD)
- Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)

### Ethernet

- Native Intel Ethernet Connection I219-V (via optional ThinkPad Ethernet Extension Cable)
- 3-year/1-yr battery limited onsite service
- 1-year depot repair service
- Microsoft Office preloaded; Lenovo Settings
- Some: Windows 10 Pro 64
- Some: Windows 10 Home 64
- Lenovo Companion
- Lenovo Settings
- Microsoft Office preloaded; purchase a product key to activate

### Limited warranty

- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1-yr battery depot repair service
  - 3-year/1-yr battery limited onsite service

### Mil-Spec test

- MIL-STD-810G military certification
- MIL-STD-810G military certification

### Environment

- EPEAT™ Gold; ENERGY STAR®
- RoHS-compliant
<table>
<thead>
<tr>
<th>Model</th>
<th>Region</th>
<th>Processor</th>
<th>vPro</th>
<th>Graphics</th>
<th>Memory</th>
<th>Display</th>
<th>Multi-touch</th>
<th>Storage(HDD/SSD)</th>
<th>WLAN + Bluetooth</th>
<th>WWAN</th>
<th>SIM Card</th>
<th>Dock</th>
<th>Monitor Cable</th>
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<tbody>
<tr>
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## ThinkPad X1 Yoga (3rd Gen) Platform Specifications

### Processor

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### Graphics

- Intel UHD Graphics 620 in processor; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 5120x2880 @ 60Hz (USB Type-C); 4096x2160 @ 30Hz (HDMI)

### Chipset

- Intel SoC (System on Chip) platform

### Memory

- 8GB or 16GB / 2133MHz LPDDR3 / soldered to systemboard, no sockets

### Display

- **Some:** 14.0" (355mm) FHD (1920x1080), LED backlight, 300 nits, 16:9 aspect ratio, 72% gamut, 170° viewing angle, IPS
- **Some:** 14.0" (355mm) QWHD (2560x1440), LED backlight, 300 nits, 16:9 aspect ratio, 72% gamut, 170° viewing angle, IPS
- **Some:** 14.0" (355mm) HDR QWHD (2560x1440) with Dolby Vision™, LED backlight, 500 nits, 16:9 aspect ratio, 1500:1 contrast ratio, 100% gamut, 170° viewing angle, IPS

### Multi-touch

- Capacitive-type multi-touch, AR (anti-reflection), AS (anti-smudge), supports 10-finger gesture

### Hinge

- Yoga hinge, 360 degree

### Convert-mode Pen (optional)

- Laptop, tent, stand, and tablet

### Storage

- **Some:** M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD)
- **Some:** M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)

### Optical

- None

### Ethernet

- Native Intel Ethernet Connection W51919-LM (vPro) via optional ThinkPad Ethernet Extension Cable

### WLAN

- Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card * Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

### WWAN (optional)

- Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card
- Nano-SIM card slot, optional Verizon LTE (US) SIM card

### Dimensions

- WxDxH: 13.11" x 9.02" x 0.67"; 333mm x 229mm x 17.05mm

### Weight

- Starting at 3.08 lb (1.4kg)

### Case color

- Black or silver

### Case material

- **Display cover:** Carbon-Fiber and Glass-Fiber hybrid
- **Bottom:** magnesium-PPS hybrid

### Security

- Power-on password, hard disk password, supervisor password, security keyhole

### Camera (optional)

- One of the following, configurable by model:
  - HD720p camera with ThinkShutter camera privacy, fixed focus
  - IR & 720p: IR camera and HD720p camera, fixed focus
  - * WWAN models and HDR panel models can not support IR camera

### Audio support

- HD Audio, Realtek ALC3286 codec, Dolby Audio™ Premium / stereo speakers, 1W x 2 / dual array microphone, headphone / microphone combo jack, Dolby Atmos™ via headphones

### Keyboard

- 6-row wave keyboard (rise & fall), spill-resistant, multimedia Fns keys, LED backlit TrackPoint® pointing device and 3+2 buttons multi-touch clickpad

### Security chip vPro (optional)

- Intel vPro Technology

### Fingerprint reader

- Touch style match on chip fingerprint reader on the palm rest

### NFC (optional)

- Near Field Communication

### Battery

- Integrated Li-Ion 54Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

### Max battery life

- 15.4 hr

### AC adapter

- 45W or 65W USB Type-C AC adapter

### Light sensor

- Ambient Light Sensor

### G-sensor

- 3D accelerometer and 3D magnetometer

### Compass

- None

### Gyroscope

- 3D gyrometer

### Preload

- Windows 10 Pro 64

### Limited warranty

- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1-yr battery depot repair service

### Mil-Spec test

- MIL-STD-810G military certification

### Environment

- EPEAT™ Gold, ENERGY STAR®, RoHS-compliant

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Lenovo
February 2018
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## ThinkPad X380 Yoga Platform Specifications

### Processor

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### Graphics

- Intel UHD Graphics 620 in processor only:
  - supports external digital monitor via HDMI or USB Type-C;
  - supports three independent displays;
  - Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

### Chipset

- Memory: 8GB or 16GB / 2400MHz DDR4 / soldered to systemboard, no sockets
  - * System clocks down for processors with lower memory controller

### Display

- 13.3" (337.8mm) FHD (1920x1080), glossy, LED backlight, IPS
- 300 nits, 16:9 aspect ratio, 800:1 contrast ratio, 170° viewing angle
- Capacitive-type multi-touch, AR (anti-reflection), AS (anti-smudge), supports 10-finger gesture
- Yoga hinge, 360 degree

### Storage

- Some: M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD)
- Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)
- None

### Ethernet

- Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via optional ThinkPad Ethernet Extension Cable

### WLAN

- Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
  - * Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS Bluetooth 4.1, wireless, integrated in Wi-Fi + Bluetooth combo adapter

### WWAN (optional)

- Integrated Mobile Broadband 4G LTE, Intel XMMTM 7562 (Fibocom L890-E8), M.2 card (EMEA only)

### SIM card (optional)

- Nano-SIM card slot

### Dimensions

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<th>12.34&quot; x 8.75&quot; x 0.72&quot;; 313.5mm x 222.2mm x 18.2mm</th>
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### Weight

- Starting at 3.17 lb (1.43kg)

### Case color

- Black or silver

### Case Material

- Carbon-Fiber Hybrid

### Smart card reader

- Optional: Smart card reader (mutually exclusive with NFC)

### Media reader

- One microSD card slot (microSD, microSDHC, microSDXC), UHS-I
- Two USB 3.1 Gen 1 (one Always On), Ethernet extension connector, one USB 3.1 Type-C Gen 2 / Thunderbolt 3, HDMI 1.4b, microSD card reader, nano-SIM card slot (WWAN models), headphone / microphone combo jack
- None

### Monitor cable

- Optional: Smart card reader (mutually exclusive with NFC)

### Camera

- One of the following, configurable by model:
  - 720p: HD720p camera, fixed focus
  - IR & 720p: IR camera and HD720p camera, fixed focus

### Audio support

- HD Audio, Conexant® CX11771 codec / stereo speakers, 2W x 2 / dual array microphone, headphone / microphone combo jack

### Keyboard

- 6-row, spill-resistant, multimedia Fn keys, LED backlight

### UltraNav™

- TrackPoint® pointing device and 3+2 buttons Mylar surface multi-touch click pad

### Security

- Power-on password, hard disk password, supervisor password, security keyhole
  - Discrete TPM 2.0 TCG Certified

### Fingerprint reader

- Touch style match on chip fingerprint reader on the palm rest
  - Near Field Communication (mutually exclusive with smart card reader)

### Security chip

- Intel vPro Technology

### Battery

- Li-Ion 51Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter
  - Max battery life
    - AC adapter: 45W or 65W slim tip AC adapter, 45W or 65W USB Type-C AC adapter

### Light sensor

- Ambient Light Sensor

### Accelerometer

- 3D accelerometer and 3D magnetometer

### Gyroscope

- 3D gyrometer

### Location

- MobileMark® 2014: 13.6 hr

### Preload

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

### Limited warranty

- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1-yr battery depot repair service

### MIL-Spec test

- MIL-STD-810G military certification

### Environment

- EPEAT™ Gold; ENERGY STAR™; RoHS-compliant
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<thead>
<tr>
<th>Model</th>
<th>Region</th>
<th>Processor</th>
<th>vPro</th>
<th>Graphics</th>
<th>Memory</th>
<th>Display</th>
<th>Storage(HDD/SSD)</th>
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### Graphics

Intel HD Graphics, Intel HD Graphics 510, or Intel HD Graphics 520 in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 1920X1080 (HDMI)@30Hz

### Chipset

Intel SoC (System on Chip) platform

### Memory

2GB, 4GB, or 8GB / PC3-12800 1600MHz DDR3L, one DDR3L SO-DIMM socket

### Display

11.6" (295mm) HD (1366x768), glare, LED backlight, IPS 250 nits, 16:9 aspect ratio, 800:1 contrast ratio

### MultiTouch

Yes, support 10 fingers

### Hinge

Yoga hinge, 360 degree

### Convertible mode

Laptop, tent, stand and tablet

### Pen

Some: Active pen, batteries required

### Storage

M.2 Solid State Drive (SSD), SATA 6.0Gb/s

### Optical

None

### Ethernet

Realtek RTL8111GUS-CG Gigabit Network Connection

### WLAN

One of the following, configurable by model:
- 11ac+BT, Intel Dual Band Wireless-AC 3165, 1x1, M.2 card
- 11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card

### Bluetooth

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

### WWAN

None

### Dimensions

WxDxH: 11.81" x 8.27" x 0.90"; 300mm x 210mm x 22.9mm

### Weight

from 3.5 lb (1.59kg)

### Case color

Display cover: Graphite Black or Silver; Bottom: Graphite Black

### Case material

Display cover: PC+40%GF+TPU; Bottom: PCC

### Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

### Ports

Two USB 3.0, HDMI, Ethernet (RJ-45)

### Control buttons

Power button, volume control button

### Camera

HD720p resolution, low light sensitive, fixed focus

### Audio support

HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/microphone jack

### Keyboard

ThinkPad Windows keyboard, 6-row, multimedia Fn keys

### UltraNav™

Buttonless touchpad below keyboard, multi-touch

### Security chip

Trusted Platform Module, TCG 1.2-compliant

### Security

Power-on password, hard disk password, supervisor password, security keyhole

### Security reader

None

### Battery

Integrated Lithium Polymer 3-cell (42Wh)

### Max battery life

MobileMark® 2014: 11.53 hr

### AC adapter

45-watt AC adapter

### Preload

Some: Windows 10 Home 64
Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo Companion
- Lenovo Setting
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

### Limited warranty

One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service (US only)

### Mil-Spec test

MIL-STD-810G military certification

### Environment

EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

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Lenovo
July 2017
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## ThinkPad Yoga 11e (4th Gen) Platform Specifications

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<th>Burst Frequency</th>
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- Intel Celeron® processor, or 7th Generation Intel Core™ i3 / i5 Processor

### Graphics

- Intel HD Graphics 500, or Intel HD Graphics 620 in processor, supports dual independent display:
  - Max resolution: 1920X1080 (HDMI) @30Hz

### Chipset & Memory

- Intel SoC (System on Chip) platform
- 4GB or 8GB / 1600MHz DDR3L or 2133MHz DDR4, one DDR3L or DDR4 SO-DIMM socket
- * System clocks down for processors with lower memory controller

### Display

- 11.6” (295mm) HD (1366x768), anti-glare, LED backlight, IPS
- 250 nits, 16:9 aspect ratio, 800:1 contrast ratio

### MultiTouch & Convertible mode

- Yes, support 10 fingers
- Laptop, tent, stand and tablet

### Storage & Optical

- M.2 Solid State Drive (SSD), SATA 6.0Gb/s
- None

### Ethernet

- Realtek RTL8111GUS-CG Gigabit Network Connection

### WLAN

- One of the following, configurable by model:
  - 11ac+BT, QCA NFA435, 1x1, M.2 card
  - 11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card

### Bluetooth™

- Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter
  - "Intel 7265ac card supports Bluetooth 4.2 but is limited to BT 4.1 by Windows OS"

### WWAN

- None

### Dimensions & Weight

- WxDxH: 11.81" x 8.27" x 0.90"; 300mm x 210mm x 22.9mm
- from 3.5 lb (1.59kg)

### Case color & Case material

- Display cover: Graphite Black; Bottom: Graphite Black
- Display cover: PC+40%GF+TPE; Bottom: PC+ABS

### Ports & Control buttons

- Two USB 3.1 Gen 1 / USB 3.0, HDMI, Ethernet (RJ-45)
- Power button, volume control button

### Camera & Audio support

- HD720p resolution, low light sensitive, fixed focus
- HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / monaural microphone, combo audio/microphone jack

### Keyboard & Security chip

- ThinkPad Windows keyboard, 6-row, multimedia Fn keys
- None

### Battery & AC adapter

- Integrated Lithium Polymer 3-cell (42Wh)
- 45-watt AC adapter

### Preload

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

- Lenovo Connect
- Lenovo Companion
- Lenovo Setting
- Microsoft Office preloaded;
  - purchase a product key to activate

### Limited warranty

- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year depot repair service

### Mil-Spec test & Environment

- MIL-STD-810G military certification
- EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant

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July 2017
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</tr>
<tr>
<td>Pen N5000</td>
<td></td>
<td></td>
<td>1.1 GHz</td>
<td>2.7 GHz</td>
<td>4MB</td>
<td></td>
<td>Intel UHD Graphics 605</td>
</tr>
</tbody>
</table>

### Graphics Specifications

- Intel HD Graphics 615, Intel UHD Graphics 600 or 605 in processor, supports external digital monitor via HDMI or USB Type-C; supports dual independent display; Max resolution: 3840x2160 @ 60Hz (USB Type-C); 4096x2160 @ 30Hz (HDMI)

### Chipset Specifications
- Intel SoC (System on Chip) platform
- 4GB or 8GB / 1866MHz LPDDR3 or 2400MHz DDR4 / soldered to systemboard, no sockets

### Display Specifications
- 11.6” (295mm) HD (1366x768), anti-glare, LED backlight, IPS 250 nits, 16:9 aspect ratio, 800:1 contrast ratio, 170° viewing angle
- Capacitive-type multi-touch, support 10 fingers
- Yoga hinge, 360 degree Convertible mode
- Laptop, tent, stand and tablet
- Some: Active pen, batteries required, on-board garage

### Storage Specifications
- eMMC flash memory on board or M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16GB/s

### Optical Specifications
- None

### Ethernet Specifications
- Realtek RTL8111GUS-CG Gigabit Network Connection

### WLAN Specifications
- One of the following, configurable by model:
  - Intel Wireless-AC 9260, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card
  - Intel Wireless-AC 8560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card
  - Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

### WWAN Specifications
- None

### Battery Specifications
- Integrated Li-ion 42Wh battery
- Max battery life: MobileMark 2014: 12 hr
- 45W or 65W slim tip AC adapter

### Preload Specifications
- Some: Windows 10 Home 64
- Some: Windows 10 Pro 64

### Limited warranty Specifications
- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year depot repair service

### Mil-Spec test Specifications
- MIL-STD-810G military certification

### Environment Specifications
- EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant

### Dimensions Specifications
- WxDxH: 11.81” x 8.27” x 0.89”; 300mm x 210mm x 22.5mm
- Weight: from 3.4 lb (1.54kg)
<table>
<thead>
<tr>
<th>Model</th>
<th>Region</th>
<th>Processor</th>
<th>Graphics</th>
<th>Memory</th>
<th>Display</th>
<th>Multi-touch</th>
<th>Color</th>
<th>Storage(HDD/SSD)</th>
<th>Optical</th>
<th>WLAN + Bluetooth</th>
<th>Camera (Front/WorldFacing)</th>
<th>Finger-print Reader</th>
<th>Battery (internal)</th>
<th>Power Adapter</th>
<th>Operating System</th>
<th>Warranty</th>
<th>Global Ann Date (m/y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20LM0004US</td>
<td>US</td>
<td>m3-7Y30</td>
<td>Intel HD 615</td>
<td>4GB</td>
<td>11.6&quot; HD (1366x768) IPS</td>
<td>10-point</td>
<td>Black</td>
<td>256GB SSD M.2 PCIe NVMe</td>
<td>None</td>
<td>Intel 9260 ac, 2x2 + BT4.1</td>
<td>Front 720p / None</td>
<td>None</td>
<td>None</td>
<td>42Wh</td>
<td>45W Slim Tip</td>
<td>Win10 Pro 64</td>
<td>1-year, Depot</td>
</tr>
<tr>
<td>20LM0005US</td>
<td>US</td>
<td>m3-7Y30</td>
<td>Intel HD 615</td>
<td>4GB</td>
<td>11.6&quot; HD (1366x768) IPS</td>
<td>10-point</td>
<td>Black</td>
<td>256GB SSD M.2 PCIe NVMe</td>
<td>None</td>
<td>Intel 9260 ac, 2x2 + BT4.1</td>
<td>Front 720p / None</td>
<td>None</td>
<td>None</td>
<td>42Wh</td>
<td>45W Slim Tip</td>
<td>Win10 Pro 64</td>
<td>1-year, Depot</td>
</tr>
<tr>
<td>20LM000UUS</td>
<td>US</td>
<td>Celeron N4100</td>
<td>Intel UHD 600</td>
<td>4GB</td>
<td>11.6&quot; HD (1366x768) IPS</td>
<td>10-point</td>
<td>Black</td>
<td>128GB SSD M.2 PCIe NVMe</td>
<td>None</td>
<td>Intel 9260 ac, 2x2 + BT4.1</td>
<td>Front 720p / None</td>
<td>None</td>
<td>None</td>
<td>42Wh</td>
<td>45W Slim Tip</td>
<td>Win10 Pro 64</td>
<td>1-year, Depot</td>
</tr>
<tr>
<td>20LM000VUS</td>
<td>US</td>
<td>Celeron N4100</td>
<td>Intel UHD 600</td>
<td>4GB</td>
<td>11.6&quot; HD (1366x768) IPS</td>
<td>10-point</td>
<td>Black</td>
<td>128GB eMMC</td>
<td>None</td>
<td>Intel 9260 ac, 2x2 + BT4.1</td>
<td>Front 720p / None</td>
<td>None</td>
<td>None</td>
<td>42Wh</td>
<td>45W Slim Tip</td>
<td>Win10 Pro 64</td>
<td>1-year, Depot</td>
</tr>
<tr>
<td>20LM000WUS</td>
<td>US</td>
<td>Celeron N4100</td>
<td>Intel UHD 600</td>
<td>4GB</td>
<td>11.6&quot; HD (1366x768) IPS</td>
<td>10-point</td>
<td>Black</td>
<td>128GB SSD M.2 PCIe NVMe</td>
<td>None</td>
<td>Intel 9260 ac, 2x2 + BT4.1</td>
<td>Front 720p / None</td>
<td>Active Pen</td>
<td>None</td>
<td>42Wh</td>
<td>45W Slim Tip</td>
<td>Win10 Pro 64</td>
<td>1-year, Depot</td>
</tr>
<tr>
<td>20LM000XUS</td>
<td>US</td>
<td>Celeron N4100</td>
<td>Intel UHD 600</td>
<td>4GB</td>
<td>11.6&quot; HD (1366x768) IPS</td>
<td>10-point</td>
<td>Black</td>
<td>128GB SSD M.2 PCIe NVMe</td>
<td>None</td>
<td>Intel 9260 ac, 2x2 + BT4.1</td>
<td>Front 720p / World Facing 5.0MP</td>
<td>Active Pen</td>
<td>None</td>
<td>42Wh</td>
<td>45W Slim Tip</td>
<td>Win10 Pro 64</td>
<td>1-year, Depot</td>
</tr>
<tr>
<td>20LM000YUS</td>
<td>US</td>
<td>Pentium Silver N5000</td>
<td>Intel UHD 605</td>
<td>8GB</td>
<td>11.6&quot; HD (1366x768) IPS</td>
<td>10-point</td>
<td>Black</td>
<td>256GB SSD M.2 PCIe NVMe</td>
<td>None</td>
<td>Intel 9260 ac, 2x2 + BT4.1</td>
<td>Front 720p / None</td>
<td>None</td>
<td>None</td>
<td>42Wh</td>
<td>45W Slim Tip</td>
<td>Win10 Pro 64</td>
<td>1-year, Depot</td>
</tr>
</tbody>
</table>

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## Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Celeron® processor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td></td>
</tr>
<tr>
<td>Core</td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td></td>
</tr>
<tr>
<td>Cache</td>
<td></td>
</tr>
<tr>
<td>Memory</td>
<td></td>
</tr>
<tr>
<td>Graphics</td>
<td></td>
</tr>
</tbody>
</table>

### Graphics
- Intel HD Graphics in processor, supports external digital monitor via HDMI™;
- supports dual independent display;
- Max resolution: 1920x1080 (HDMI) @30Hz

<table>
<thead>
<tr>
<th>Graphics</th>
<th>Intel HD Graphics in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 1920x1080 (HDMI) @30Hz</th>
</tr>
</thead>
</table>

## Chipset

<table>
<thead>
<tr>
<th>Chipset</th>
<th>Intel SoC (System on Chip) platform</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory</td>
<td>2GB or 4GB / 1600MHz LPDDR3 / soldered to systemboard, no sockets</td>
</tr>
</tbody>
</table>

## Display

<table>
<thead>
<tr>
<th>Display</th>
<th>11.6&quot; (295mm) HD (1366x768), glare, LED backlight, IPS 200 nits, 16:9 aspect ratio, 800:1 contrast ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>MultiTouch</td>
<td>Yes, support 10 fingers</td>
</tr>
<tr>
<td>Hinge</td>
<td>Yoga hinge, 360 degree</td>
</tr>
<tr>
<td>Convertible mode</td>
<td>Laptop, tent, stand and tablet</td>
</tr>
</tbody>
</table>

## Storage

<table>
<thead>
<tr>
<th>Storage</th>
<th>16GB eMMC (embedded Multi Media Card) flash memory on board</th>
</tr>
</thead>
</table>

## Optical

<table>
<thead>
<tr>
<th>Optical</th>
<th>None</th>
</tr>
</thead>
</table>

## Ethernet

<table>
<thead>
<tr>
<th>Ethernet</th>
<th>None</th>
</tr>
</thead>
</table>

## WLAN

<table>
<thead>
<tr>
<th>WLAN</th>
<th>11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter</th>
</tr>
</thead>
</table>

## Bluetooth™

<table>
<thead>
<tr>
<th>Bluetooth™</th>
<th>Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter</th>
</tr>
</thead>
</table>

## WWAN

<table>
<thead>
<tr>
<th>WWAN</th>
<th>None</th>
</tr>
</thead>
</table>

## Dimensions

| Dimensions | WxH: 11.81" x 8.27" x 0.88"; 300mm x 210mm x 22.3mm |

## Weight

| Weight | 3.3 lb (1.50kg) |

## Case color

| Case color: Display cover: Graphite Black or Silver; Bottom: Graphite Black |

## Case material

| Case material: Display cover: PC+40%GF+TPU; Bottom: PCC |

## Media reader

| Media reader: Ports: Two USB 3.0 (one Always On), HDMI |

## Control buttons

| Control buttons: Power button, volume control button |

## Camera

| Camera: HD720p resolution, low light sensitive, fixed focus |

## Audio support

| Audio support: Realtek® ALC5650 codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/microphone jack |

## Keyboard

| Keyboard: ThinkPad Chrome keyboard, 6-row, multimedia Fn keys |

## UltraNav™

| UltraNav™: Buttonless touchpad below keyboard, multi-touch |

## Security chip

| Security chip: Trusted Platform Module, TCG 1.2-compliant |

## Fingerprint reader

| Fingerprint reader: None |

## Battery

| Battery: Integrated Lithium Polymer 3-cell (42Wh) |

## Max battery life

| Max battery life: Up to 12 hr |

## AC adapter

| AC adapter: 45-watt AC adapter |

## Limited warranty

| Limited warranty: 1-year depot repair service |

## Mil-Spec test

| Mil-Spec test: MIL-STD-810G military certification |

## Environment

| Environment: EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant |

Lenovo
July 2017
<table>
<thead>
<tr>
<th>Model</th>
<th>Region</th>
<th>Processor</th>
<th>Graphics</th>
<th>Memory</th>
<th>Display</th>
<th>Multi-touch</th>
<th>Storage</th>
<th>Optical</th>
<th>WLAN + Bluetooth</th>
<th>Color</th>
<th>Camera</th>
<th>Pen</th>
<th>Finger-print Reader</th>
<th>Battery</th>
<th>Power Adapter</th>
<th>Operating System</th>
<th>Warranty</th>
<th>Global</th>
<th>Ann Date (m/y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20GE0002US</td>
<td>US</td>
<td>Celeron N3150</td>
<td>Intel HD</td>
<td>4GBx1</td>
<td>11.6&quot; HD (1366x768) IPS</td>
<td>10-point Multi-touch</td>
<td>16GB eMMC</td>
<td>None</td>
<td>Intel 7265 ac, 2x2 + BT4.0</td>
<td>Black</td>
<td>720p</td>
<td>None</td>
<td>None</td>
<td>3-cell (42Wh)</td>
<td>45W</td>
<td>Chrome OS</td>
<td>1-year, Depot</td>
<td>No</td>
<td>03/16</td>
</tr>
<tr>
<td>20GE0003US</td>
<td>US</td>
<td>Celeron N3160</td>
<td>Intel HD</td>
<td>4GBx1</td>
<td>11.6&quot; HD (1366x768) IPS</td>
<td>10-point Multi-touch</td>
<td>16GB eMMC</td>
<td>None</td>
<td>Intel 7265 ac, 2x2 + BT4.0</td>
<td>Black</td>
<td>720p</td>
<td>None</td>
<td>None</td>
<td>3-cell (42Wh)</td>
<td>45W</td>
<td>Chrome OS</td>
<td>1-year, Depot</td>
<td>No</td>
<td>10/16</td>
</tr>
</tbody>
</table>
### ThinkPad Yoga 11e Chromebook (4th Gen) Platform Specifications

#### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Celeron® processor</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Burst Frequency</th>
<th>Cache</th>
<th>Memory Controller</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cel N3450</td>
<td>4</td>
<td>4</td>
<td>1.1 GHz</td>
<td>2.2 GHz</td>
<td>2MB</td>
<td>LPDDR4-2400</td>
<td>Intel HD graphics 500</td>
</tr>
</tbody>
</table>

#### Graphics

- Intel HD Graphics 500 in processor

#### Chipset

- Intel SoC (System on Chip) platform

#### Memory

- 4GB or 8GB 3200MHz LPDDR4 / soldered to systemboard, no sockets
  - * System clocks down for processors with lower memory controller

#### Display

- 11.6" (295mm) HD (1366x768), anti-glare, LED backlight, IPS
  - 250 nits, 16:9 aspect ratio, 800:1 contrast ratio

#### MultiTouch

- Yes, support 10 fingers

#### Hinge

- Yoga hinge, 360 degree

#### Convertible mode

- Laptop, tent, stand and tablet

#### Pen

- None

#### Storage

- 32GB eMMC (embedded Multi Media Card) flash memory on board

#### Optical

- None

#### Media reader

- 3-in-1 reader (SD, SDHC, SDXC)

#### Ports

- Two USB 3.1 Type-C Gen 1, one USB 3.1 Gen 1 / USB 3.0

#### Control buttons

- Power button, volume control button

#### Camera

- HD720p resolution, low light sensitive, fixed focus

#### Audio support

- HD Audio, DA7219 codec / stereo speakers, 2W x 2 / monaural microphone, combo audio/microphone jack

#### Keyboard

- ThinkPad Chrome keyboard, 6-row, multimedia Fn keys

#### UltraNav™

- Two buttons click pad below keyboard, multi-touch

#### Security chip

- None

#### Fingerprint reader

- None

#### Battery

- Integrated Lithium Polymer 3-cell (42Wh)

#### Max battery life

- Up to 10 hr

#### AC adapter

- 45-watt USB Type-C adapter

#### Preload

- Google Chrome OS

#### Limited warranty

- 1-year depot repair service

#### Mil-Spec test

- MIL-STD-810G military certification

#### Environment

- EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant

#### Lenovo

- July 2017
<table>
<thead>
<tr>
<th>Model</th>
<th>Region</th>
<th>Processor</th>
<th>Graphics</th>
<th>Memory</th>
<th>Display</th>
<th>Multi-touch</th>
<th>Color</th>
<th>Storage</th>
<th>Optical</th>
<th>WLAN + Bluetooth</th>
<th>Camera</th>
<th>Pen</th>
<th>Fingerprint Reader</th>
<th>Battery</th>
<th>Power Adapter</th>
<th>Operating System</th>
<th>Warranty</th>
<th>Global</th>
<th>Ann Date (m/y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20HY0000US</td>
<td>US</td>
<td>Celeron N3450</td>
<td>Intel HD 500</td>
<td>4GB Soldered</td>
<td>11.6” HD (1366x768) IPS</td>
<td>10-point Multi-touch</td>
<td>Black</td>
<td>32GB eMMC</td>
<td>None</td>
<td>Intel 7265 ac, 2x2 + BT4.2</td>
<td>720p</td>
<td>None</td>
<td>None</td>
<td>3-cell (42Wh)</td>
<td>45W</td>
<td>Chrome OS</td>
<td>1-year, Depot</td>
<td>No</td>
<td>04/17</td>
</tr>
</tbody>
</table>
## ThinkPad Yoga 370 Platform Specifications

**Product Specifications Reference (PSREF)**

**Lenovo**

**August 2017**

### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processors</th>
<th>Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i3-7100U</td>
<td>2</td>
<td>4</td>
<td>2.4 GHz</td>
<td>-</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>i3-7100U</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>i5-7200U</td>
<td>2</td>
<td>4</td>
<td>2.5 GHz</td>
<td>3.1 GHz</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>i5-7200U</td>
<td>Intel HD Graphics 620</td>
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<tr>
<td>i5-7300U</td>
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<td>4</td>
<td>2.6 GHz</td>
<td>3.5 GHz</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>i5-7300U</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>i7-7500U</td>
<td>2</td>
<td>4</td>
<td>2.7 GHz</td>
<td>3.5 GHz</td>
<td>4MB</td>
<td>DDR4-2133</td>
<td>i7-7500U</td>
<td>Intel HD Graphics 620</td>
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<tr>
<td>i7-7600U</td>
<td>2</td>
<td>4</td>
<td>2.8 GHz</td>
<td>3.9 GHz</td>
<td>4MB</td>
<td>DDR4-2133</td>
<td>i7-7600U</td>
<td>Intel HD Graphics 620</td>
</tr>
</tbody>
</table>

### Graphics

Intel HD Graphics 620 in processor only; supports external digital monitor via HDMI; supports dual independent display.

Max resolution: 4096x2160 (HDMI) @24Hz

### Chipset

Intel SoC (System on Chip) platform

**WWAN model:** 8GB 2133MHz DDR4 soldered to systemboard

**Non-WWAN model:** 16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket

### Memory

**System Memory:**
- 8GB 2133MHz DDR4 soldered to systemboard
- 32GB (8GB x 4)

**Optional:**
- M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD)
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)

### Display

13.3" (337.8mm) FHD (1920x1080), glossy, LED backlight, IPS

300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle

Capacitive-type multi-touch, AR (anti-reflection), AS (anti-smudge), supports 10-finger gesture

Yoga hinge, 360 degree

### Convert-mode Pen

ThinkPad Pen Pro, active pen for multi-touch display, on-board charging

### Storage

Some:
- M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD)
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)

None

### Optical

None

### Ethernet

Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via optional ThinkPad Ethernet Extension Cable

### WLAN

One of the following, configurable by model (WiGig is mutually exclusive with WWAN):<br>
- Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
- Intel Tri-Band Wireless-AC 18265, Wi-Fi 802.11ad + Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
- *WiGig adapter is only available in selected countries*

### Bluetooth™

* Intel 8265ac / 18265ac card support BT4.2 but is limited to BT4.1 by Windows OS

### WWAN (optional)

Integrated Mobile Broadband 4G LTE-A, Qualcomm Snapdragon™ X7 LTE-A (Sierra Wireless EM7455)<br>

"WWAN models are only available with i5, i7 processors, WWAN models is not available in North America"

### SIM card (opt)

Micro-SIM card slot, optional Lenovo Connect (EMEA) SIM card

### Dimensions

WxDxH: 12.34" x 8.75" x 0.72"; 313.5mm x 222.2mm x 18.2mm

### Weight

Starting at 3.03 lb (1.37kg)

### Case color

Black or silver

### Case Material

Carbon-Fiber Hybrid

### Camera

HD720p resolution, fixed focus

HD Audio, Conexant® CX1177 codex, Dolby® DAXII / stereo speakers, 2W x 2 /
dual array microphone, combo audio / microphone jack

### Audio support

HD Audio, Conexant®

### Security chip

vPro (optional)

### Finger print reader

Near Field Communication (mutually exclusive with smart card reader)

### NFC (optional)

Touch style match on chip fingerprint reader on the palm rest

### Battery

Li-Polymer 4-cell (51Wh) battery

MobileMark® 2014: 12.5 hr

Max battery life AC adapter:
- 45W or 65W AC adapter (slim tip), 65W USB Type-C AC adapter

### Bluetooth™

45W or 65W AC adapter (slim tip), 65W USB Type-C AC adapter

### Ambient Light Sensor

3D accelerometer and 3D magnetometer

### Gyroscope

3D gyrometer

### Preload

Some: Windows 10 Home 64
Some: Windows 10 Pro 64
Lenovo Connect
Lenovo Companion
Lenovo Setting
Microsoft Office preloaded; purchase a product key to activate

### Limited warranty

One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service

### Mil-Spec test

MIL-STD-810G military certification

### Environment

EPEAT® Gold (US only); ENERGY STAR®; RoHS-compliant
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Carry-in or Mail-in Service: Parts and labor repair coverage where the customer is responsible for shipping (including packaging) or delivery to authorized warranty provider or repair center.

Deposit or Courier Service: Parts and labor repair coverage where shipping (including packaging) or delivery to the repair center is paid for by Lenovo.

Expedited Depot: Parts and labor coverage with expedited turnaround. Shipping (including packaging) or delivery to the repair center is paid for by Lenovo.

Onsite / In-home Service: Parts and labor repair coverage where labor is provided onsite at your place of business.

If Lenovo determines your product problem is covered by the product warranty and cannot be resolved over the telephone, a technician will be dispatched to arrive onsite, typically the next day.


Visit www.lenovo.com/warranty for Lenovo Warranty Services terms and conditions for complete details and restrictions.

Included software: may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.

Battery life: Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.


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Lenovo 1009 Think Place Morrisville, NC 27560 U.S.A.
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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.

May 2019 - Version 542

Additions in this update

► New product(s)
  None

► New model(s)
  None

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

Withdrawals in this update

► Withdrawn product(s)
  None

► Withdrawn model(s)
  None
ThinkCentre M810z Platform Specifications

Processor

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<td>8 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
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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

Optical

- 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)

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
- Optional 1080p camera, fixed focus, with dual microphone, LED indicator, physical switch on/off

Power supply

- 150 watts, autosensing, 85% PSU

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;
  - - Only for Windows 10
  - - Lenovo Companion
  - - Lenovo Solution Center
  - - Lenovo ThinkVantage Tools
  - - ThinkVantage System Update
  - - Create Recovery Media
  - - Adobe® Reader®
  - - CyberLink PowerDVD Create (DVD±RW)

Environmental

- 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)

Security features

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

Keyboard

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

Mouse

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

Mechanical

- Dimensions (WxDxH) (mm)
  - Without stand: 535 x 45 x 363
  - With Basic Monitor stand: 535 x 245 x 431
  - With UltraFlex II stand: 21.1X 10.0 X 19.3 (inch)
- Max weight (lb / kg)
  - (Touch) 14.6 / 6.6
  - (Non-touch) 12.8 / 5.8
- Adjustments
  - Tilt: 45° back, -5° forward
  - Tilt: 61° back, -5° forward; Lift: 110mm; Swivel: +/-45°

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

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.lenovoupickquick.com
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<th>Power Supply</th>
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<th>Media Reader</th>
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<td>None</td>
<td>UltraFlex II Stand</td>
<td>Win10 Pro</td>
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<td>Apr 7, 2023</td>
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<tr>
<td>10NY0010US</td>
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<td>i3-6100</td>
<td>Intel HD 530</td>
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<td>21.5” FHD</td>
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<td>DVD+RW</td>
<td>9-in-1</td>
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<td>None</td>
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<td>Win10 Pro</td>
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<td>Apr 7, 2023</td>
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<tr>
<td>Model</td>
<td>Region</td>
<td>Processor</td>
<td>Graphics</td>
<td>Monitor</td>
<td>Monitor Cable</td>
<td>Memory</td>
<td>Display</td>
<td>Multi-touch</td>
<td>Power Supply</td>
<td>Storage(HDD/SSD)</td>
<td>Optical</td>
<td>Media Reader</td>
<td>USB Type-C</td>
<td>WLAN + Bluetooth</td>
<td>Optional Rear Ports</td>
<td>Chassis Intrusion Switch</td>
<td>Camera</td>
<td>Stand</td>
<td>Operating System</td>
<td>Cable</td>
<td>Keyboard / Mouse</td>
<td>Warranty</td>
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<td>Ann Date (m/y)</td>
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<td>128GB SSD M.2 PCie NVMe</td>
<td>DVD±RW</td>
<td>9-in-1</td>
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<td>8265 ac, 2x2 + BT4.1</td>
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<td>1080p</td>
<td>None</td>
<td>None USB / USB</td>
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## Product Specifications Reference (PSREF)

### Processor

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<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency (GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
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<td>2 MB</td>
<td>DDR4-2400</td>
<td>UHD 610</td>
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<tr>
<td>Intel Pentium® Gold G5500</td>
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<td>3.8G</td>
<td>4 MB</td>
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<td>4/1G</td>
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<td>Intel Core® i5-8500</td>
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<td>3.0G</td>
<td>4/1G</td>
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<td>UHD 630</td>
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<td>4/3G</td>
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<td>UHD 630</td>
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<tr>
<td>Intel Core® i7-8700</td>
<td>6 / 12</td>
<td>3.2G</td>
<td>4/6G</td>
<td>DDR4-2400</td>
<td>UHD 630</td>
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</table>

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

* System clocks down for the processors with lower memory controller

### Storage

<table>
<thead>
<tr>
<th>Storage</th>
<th>Type</th>
<th>Capacity</th>
<th>Speed</th>
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<tbody>
<tr>
<td>Some:</td>
<td>Hard Drive / SATA 6.0Gb/s</td>
<td>2.5&quot;, 5400 rpm</td>
<td>7200 rpm</td>
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<tr>
<td>Some:</td>
<td>Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Some:</td>
<td>M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s</td>
<td></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>
<td></td>
<td></td>
</tr>
<tr>
<td>Some:</td>
<td>Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2</td>
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### Optical

<table>
<thead>
<tr>
<th>Optical</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Some:</td>
<td>DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)</td>
</tr>
<tr>
<td>Some:</td>
<td>DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)</td>
</tr>
</tbody>
</table>

### Media reader

<table>
<thead>
<tr>
<th>Media reader</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optional 3-in-1 media card reader</td>
<td></td>
</tr>
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### Graphics

<table>
<thead>
<tr>
<th>Graphics</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel HD Graphics 610/630</td>
<td>in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™, Max resolution: 4096x2304 (DP) @ 60Hz, 1920x1080 (Panel) @ 60Hz</td>
</tr>
</tbody>
</table>

### Display

<table>
<thead>
<tr>
<th>Display</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full HD 1080p (1920x1080) TFT color</td>
<td>Borderless design, MVA panel, wide viewing angle (±89°), 1000:1 contrast ratio, anti-glare, support Low Blue Light Mode</td>
</tr>
<tr>
<td>Full HD 1080p (1920x1080) TFT color</td>
<td>Borderless design, MVA panel, wide viewing angle (±89°), 1000:1 contrast ratio, anti-glare, support Low Blue Light Mode</td>
</tr>
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</table>

### Multi-touch Camera

<table>
<thead>
<tr>
<th>Multi-touch Camera</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optional multi-touch, supports 10-point, AIT (Advanced In-cell Touch) technology</td>
<td></td>
</tr>
<tr>
<td>Optional 1080p camera, with dual microphone, LED indicator, physical switch on/off, supports multi-degree rotation (horizontal 0° to 180°, vertical -25° to 25°)</td>
<td></td>
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### Controls

<table>
<thead>
<tr>
<th>Controls</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical buttons on side for microphone mute and power on/off</td>
<td></td>
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### Chipset

<table>
<thead>
<tr>
<th>Chipset</th>
<th>Description</th>
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<tbody>
<tr>
<td>Intel B360 Chipset</td>
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### Rear ports

<table>
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<tr>
<th>Rear ports</th>
<th>Description</th>
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<tbody>
<tr>
<td>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 Gen2 (one is Always On and fast charge), one USB 3.1 Type-C Gen1, one optional card reader, one headphone / microphone combo jack (3.5mm)</td>
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### Side ports

<table>
<thead>
<tr>
<th>Side ports</th>
<th>Description</th>
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<tbody>
<tr>
<td>Two M.2 card slots</td>
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### Audio support

<table>
<thead>
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<th>Audio support</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>High Definition (HD) Audio, Realtek ALC233 / two internal speakers (2W x 2), Dolby® Audio™ Premium</td>
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### WLAN

<table>
<thead>
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<th>WLAN</th>
<th>Description</th>
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<tbody>
<tr>
<td>Some:</td>
<td>11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1</td>
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<td>Some:</td>
<td>11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2</td>
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<tr>
<td>Some:</td>
<td>11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1</td>
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<td>11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2</td>
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### Bluetooth

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<th>Bluetooth</th>
<th>Description</th>
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<tbody>
<tr>
<td>Some:</td>
<td>Bluetooth 4.2/5.0 wireless, integrated in Wi-Fi + BT combo adapter</td>
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### Ethernet

<table>
<thead>
<tr>
<th>Ethernet</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Gigabit ethernet, Realtek RTL8111G, Wake on LAN*</td>
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### Manageability

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### Security chip

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<th>Description</th>
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</table>

### Security features

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

### Keyboard

<table>
<thead>
<tr>
<th>Keyboard</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Some:</td>
<td>Lenovo Calliope Keyboard (USB connector), black</td>
</tr>
<tr>
<td>Some:</td>
<td>Lenovo Traditional Keyboard (USB connector), black</td>
</tr>
<tr>
<td>Some:</td>
<td>Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black</td>
</tr>
<tr>
<td>Some:</td>
<td>Lenovo Calliope Mouse (USB connector), black</td>
</tr>
<tr>
<td>Some:</td>
<td>Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black</td>
</tr>
<tr>
<td>Some:</td>
<td>Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black</td>
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### Mouse

<table>
<thead>
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<th>Mouse</th>
<th>Description</th>
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<tbody>
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<td>None</td>
<td></td>
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</table>

### Mechanical

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

### Power supply

- 150 watts, autosensing, 90% PSU

### Limited warranty

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

### Preload

- Preloaded operating system
  - Some: Windows 10 Pro 64-bit
  - Some: Windows 10 Home 64-bit
- Preloaded applications (only 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

### Environment

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

### MIL-SPEC test

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

### Accessories

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

---

Note: The specifications above may not be available in all regions.
<table>
<thead>
<tr>
<th>Model</th>
<th>Region</th>
<th>Processor</th>
<th>vPro Graphics</th>
<th>Monitor Cable</th>
<th>Memory</th>
<th>Storage (HDD/SSD)</th>
<th>Optical</th>
<th>Display</th>
<th>Multi-touch</th>
<th>Media Reader</th>
<th>Bluetooth</th>
<th>WLAN +</th>
<th>Optional Rear Ports</th>
<th>Chassis Intrusion Switch</th>
<th>Camera Speaker</th>
<th>Stand</th>
<th>Keyboard / Mouse</th>
<th>Power Supply</th>
<th>Operating System</th>
<th>Warranty</th>
<th>End of Support</th>
<th>Ann. Date (m/y)</th>
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<th>Memory Support (Up to)</th>
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<td>HD 630</td>
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### 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-ROM SATA 1.5Gb/s Drive, slim (9.5mm)
- Some: DVD Burner (DVD+RW), SATA 1.5Gb/s Drive, slim (9.5mm)

### Optical

- Optional 9-in-1 media card reader

### Graphics

- **Intel HD Graphics 530/630** in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™:
  - Max resolution: 4096x2304 (DP) @60Hz, 1920x1080 (Panel) @60Hz
  - **23.8" (604.5mm)** Full HD 1080p (1920x1080) TFT color. WVA panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, support Low Blue Light Mode, work as standalone monitor via DisplayPort (DP in / out combo)

### Multi-touch Camera

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

### Controls

- Physical buttons for Microphone mute, monitor mode switch, brightness up/down, and power on/off

### Chipset

**Intel Q270 Chipset**

### Rear ports*

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

### Side ports*

- Two USB 3.1 Gen1 (one is Always On and fast charge), optional card reader, one headphone / microphone combo jack (3.5mm), optional USB 3.1 Type-C Gen1
- * Dependent on many factors, actual data transfer speed may be lower than theoretical speed
- Two M.2 Card slots (one for WLAN, one for SSD/Optane)

### Audio support

- High Definition (HD) Audio, Realtek ALC223 / two internal speakers (3W x 2), Dolby® Audio™ certified

### WLAN

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

### Bluetooth

- Bluetooth 4.0 / 4.1, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
- **Some:** 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 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 attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)**
- **Smart USB protection, allows keyboard/mouse only, blocks all storage devices**
- **Optional cable lock to physically lock keyboard and mouse**
- **Power-on, admin, hard disk password**
- **Boot sequence control**
- **Boot without keyboard and mouse**
- **Individual USB port disablement**
- **Optional Chassis intrusion switch**

### Keyboard

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

### Mouse

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

### Mechanical

- **Tilt:** 61° back, -5° forward
- **Lift:** 110mm; Swivel: +/- 45°

### Dimensions (WxDxH)

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<tr>
<th>Without stand</th>
<th>With Basic Monitor stand</th>
<th>With UltraFlex II stand</th>
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</thead>
<tbody>
<tr>
<td>Max weight (lb / kg)</td>
<td>Adjustments</td>
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<tr>
<td>23.0 X 1.8 X 15.4 (inch); 584 X 45 X 390 (mm)</td>
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</table>

### 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; 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; ULE Gold; EeP Lot 3; GREENGUARD® certified; RoHS-compliant**

### MIL-SPEC test

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

### Accessories

For compatible accessories, please go to [http://www.lenovoquickpick.com](http://www.lenovoquickpick.com)
<p>| Model      | Region | Processor | vPro | Graphics | Monitor | Cable | Memory | Display | Multi-touch | Power Supply | Storage(HDD/SSD) | Optical | Media Reader | USB Type-C | WLAN + Bluetooth | Optional Rear Ports | Camera Intrusion Switch | Chassis Lock | Cable | Keyboard/Mouse | Stand | Operating System | Warranty | End of Support | Ann Date (m/y) |
|------------|--------|-----------|------|----------|---------|-------|--------|---------|-----------|-------------|---------------|--------------|----------|-------------|------------|-----------------|-------------------|-----------------|-----------|---------|--------------|-------|-----------------|----------|----------------|----------------|
| 10NR000HUS | US     | i5-7500   | vPro | Intel HD | 630     | None  | 8GBx1 | 23.8” FHD | 10-point | Multi-touch | 150W Adapter | 256GB SSD M.2 PCIe NVMe Opal | DVD±RW | 9-in-1 | None | 8265 ac, 2x2, vPro | USB / USB | UltraFlex Win10 Pro II Stand | 3-year, Onsite | Mar 28, 2023 | 02/17 |
| 10NR000KUS | US     | i5-7500   | vPro | Intel HD | 630     | None  | 8GBx1 | 23.8” FHD | 10-point | Multi-touch | 150W Adapter | 512GB SSD M.2 PCIe NVMe Opal | DVD±RW | 9-in-1 | None | 8265 ac, 2x2, vPro | USB / USB | UltraFlex Win10 Pro II Stand | 3-year, Onsite | Mar 28, 2023 | 02/17 |
| 10NR000LUS | US     | i7-7700   | vPro | Intel HD | 630     | None  | 8GBx1 | 23.8” FHD | 10-point | Multi-touch | 150W Adapter | 256GB SSD M.2 PCIe NVMe Opal | DVD±RW | 9-in-1 | None | 8265 ac, 2x2, vPro | USB / USB | UltraFlex Win10 Pro II Stand | 3-year, Onsite | Mar 28, 2023 | 02/17 |
| 10NR000MUS | US     | i5-7500   | vPro | Intel HD | 630     | None  | 8GBx1 | 23.8” FHD | 10-point | Multi-touch | 150W Adapter | 500GB 7200rpm 2.5” | DVD±RW | 9-in-1 | None | 8265 ac, 2x2, vPro | USB / USB | UltraFlex Win10 Pro II Stand | 3-year, Onsite | Mar 28, 2023 | 02/17 |
| 10NR000PUS | US     | i7-7700   | vPro | Intel HD | 630     | None  | 8GBx1 | 23.8” FHD | 10-point | Multi-touch | 150W Adapter | 512GB SSD M.2 PCIe NVMe Opal | DVD±RW | 9-in-1 | None | 8265 ac, 2x2, vPro | USB / USB | UltraFlex Win10 Pro II Stand | 3-year, Onsite | Mar 28, 2023 | 02/17 |
| 10NR000QUS | US     | i7-7700   | vPro | Intel HD | 630     | None  | 8GBx1 | 23.8” FHD | 10-point | Multi-touch | 150W Adapter | 500GB 7200rpm 2.5” | DVD±RW | 9-in-1 | None | 8265 ac, 2x2, vPro | USB / USB | UltraFlex Win10 Pro II Stand | 3-year, Onsite | Mar 28, 2023 | 02/17 |
| 10NR000RUS | US     | i5-7500   | vPro | Intel HD | 630     | None  | 4GBx1 | 23.8” FHD | 10-point | Multi-touch | 150W Adapter | 500GB 7200rpm 2.5” | DVD±RW | 9-in-1 | None | 8265 ac, 2x2, vPro | USB / USB | UltraFlex Win10 Pro II Stand | 3-year, Onsite | Mar 28, 2023 | 02/17 |
| 10NR0017US | US     | i5-7500   | vPro | Intel HD | 630     | None  | 4GBx1 | 23.8” FHD | 10-point | Multi-touch | 150W Adapter | 128GB SSD M.2 PCIe NVMe | DVD±RW | 9-in-1 | None | 8265 ac, 2x2, vPro | USB / USB | UltraFlex Win10 Pro II Stand | 3-year, Onsite | May 7, 2023 | 04/17 |
| 10NR0018US | US     | i7-7700   | vPro | Intel HD | 630     | None  | 8GBx1 | 23.8” FHD | 10-point | Multi-touch | 150W Adapter | 128GB SSD M.2 PCIe NVMe | DVD±RW | 9-in-1 | None | 8265 ac, 2x2, vPro | USB / USB | UltraFlex Win10 Pro II Stand | 3-year, Onsite | May 7, 2023 | 04/17 |</p>
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<th>Media Reader Type-C</th>
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## ThinkCentre M920z Platform Specifications

### Processor

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<th>Cores / Threads</th>
<th>Frequency Base / Max (GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
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### Memory

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

### Storage

- Some: Hard Drive / SATA 6.0Gb/s, 2.5”, 5400 rpm or 7200 rpm, supports up to two HDDs (2nd HDD occupies odd bay), RAID/0 support (RAID preset only available via special bid model)
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5”
- Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4*, 32Gb/s

### Optical

- Some: Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2 DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)
- Some: DVD Burner (DVD-RW), SATA 1.5Gb/s Drive, slim (9.0mm)

### Media reader

- Optional 3-in-1 media card reader

### Graphics

- Intel HD Graphics 660/630 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™

### Display

- Max resolution: 4096x2304 (DP) @ 60Hz, 1920x1080 (Panel) @ 60Hz
- Full HD 1080p (1920x1080) TFT color

### Multi-touch

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

### Controls

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

### Chipset

- Intel Q370 Chipset

### Rear ports

- Four USB 3.1 Gen 1 (one supports Smart Power On), one ethernet (RJ-45), one DisplayPort in/out combo port, one optional card reader (9-pin)
- One USB 3.1 Gen 2 (one is Always On and fast charge), one USB 3.1 Gen 1, one USB 3.1 Type-C Gen 1, one optional card reader, one headphone / microphone combo jack (3.5mm)

### M.2 card slot

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

### Audio support

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

### WLAN

- Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, Intel vPro technology support, 2x2

### Bluetooth

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

### Ethernet

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

### Security chip

- Intel Active Management Technology 12.0 (Intel AMT 12.0);
- Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)
- Discrete TPM 2.0, TCG Certified
- Security features

### Mechanical

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

### Power supply

- 150 watts, autosensing, 90% PSU

### Dimensions

- Without stand (No camera): 21.3 X 18 X 13.7 (inch) 542 x 46 x 349 (mm)
- With Full Function Monitor stand (No camera): 21.3 X 9.9 X 15.9 to 20.2 (inch) 542 X 252 X 405 to 514 (mm)
- With UltraFlex III stand (No camera): 21.3 X 9.9 X 14.3 to 17.5 (inch) 542 X 252 X 363 to 444 (mm)

### Limited warranty

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

### Preload

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

### Preloaded applications (only selected)

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

### Environment

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

### MIL-STD test

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

### Accessories

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

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

Lenovo, July 2018
<table>
<thead>
<tr>
<th>Model</th>
<th>Region</th>
<th>Processor</th>
<th>vPro</th>
<th>Graphics</th>
<th>Monitor Cable</th>
<th>Memory</th>
<th>Storage (HDD/SSD)</th>
<th>Optical</th>
<th>Display</th>
<th>Multi-touch</th>
<th>Media Reader</th>
<th>Bluetooth</th>
<th>WLAN + Bluetooth</th>
<th>Optional Rear Ports</th>
<th>Chassis</th>
<th>Intrusion Switch</th>
<th>Camera Speaker</th>
<th>Stand</th>
<th>Power Supply</th>
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## ThinkCentre M600 Tiny Platform Specifications

### Product Specifications Reference (PSREF)

See footnotes for more detailed information.

### Processor

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<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>
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<td>Intel HD</td>
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</table>

### Chipset

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

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

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

### Graphics

- HDD size: Not specified
- I/O interfaces: Not specified

### Memory

- Model: 8GB max / DDR3 Low Voltage, DDR3L-1600, non-parity, one 204-pin SO-DIMM socket
- Model: SODIMM 6.0Gbps controller, one connectors on planar

### Storage

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

### Optical

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

### Monitor cable

- Model: Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
- Model: Two USB 2.0, two USB 3.0 (optional external optical box or I/O box occupies one or two specific USB on some models, ethernet, RJ-45), two DisplayPort
- Model: Option external i/O box, extends two USB 2.0, two USB 3.0, and one serial on rear, two USB 2.0 on front, via USB (occupy two specific USB 3.0 of M600 Tiny) * Depending on many factors, actual data transfer speed may be lower than theoretical speed

### I/O Ports

- Front ports: Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
- Rear ports: Two USB 2.0, two USB 3.0 (optional external optical box or I/O box occupies one or two specific USB on some models, ethernet, RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, or serial on some models), one headphone
- I/O box: Optional external I/O box, extends two USB 2.0, two USB 3.0, and one serial on rear, two USB 2.0 on front, via USB (occupy two specific USB 3.0 of M600 Tiny) * Depending on many factors, actual data transfer speed may be lower than theoretical speed

### Audio support

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

### WLAN™

- Model: 11ac wireless, M.2 Card, Realtek RTL8821AE (dual band), Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
- Model: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
- Model: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174 (dual band), Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
- Model: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
- Model: 11ac wireless, M.2 Card, Intel Dual Band Wireless-Acc 8260, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
- Model: One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN

### Bluetooth™

- Model: One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN

### Ethernet Modem

- Model: None

### Manageability Security chip

- Model: None
- Model: Trusted Platform Module, TCG 1.2-compliant

### Security features

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

### Keyboard

- Model: Preferred Pro USB Keyboard (USB connector), Lenovo logo

### Mouse

- Model: Lenovo USB Fingerprint Keyboard (USB connector)
- Model: Enhanced Optical USB Mouse, black, Lenovo logo

### Mechanical

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

### Power supply

- Model: 65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
- Model: Limited warranty: 3-year, limited onsite service / service upgrades available
- Model: 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 QuickOptimizer
  - - Only for Window 10
  - - Lenovo Companion (Win10)
  - - Cyberlink PowerDVD (DVD, DVD±RW)
  - - Lenovo ThinkVantage Tools (30-day trial)

### Environment

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

### Accessories

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

### Lenovo, November 2017
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<thead>
<tr>
<th>Model</th>
<th>Region</th>
<th>Case</th>
<th>Processor</th>
<th>vPro</th>
<th>Graphics</th>
<th>Monitor</th>
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<th>External Optical / I/O Box</th>
<th>WLAN + Bluetooth</th>
<th>Optional Rear Ports</th>
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<th>Kensington Cable Lock</th>
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<th>Adapter Cage</th>
<th>Toolless Chassis Screw</th>
<th>Keyboard / Mouse</th>
<th>VESA Mount</th>
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<th>Power Supply</th>
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## ThinkCentre M600 Tiny Thin Client Platform Specifications

### Processor
<table>
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<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency (Base/Max)</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Integrated Graphics</th>
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</thead>
<tbody>
<tr>
<td>Intel® Celeron® N3000 Series or Intel Pentium® Processor N3000 Series</td>
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<td>DDR3L-1600</td>
<td>Intel HD 400</td>
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</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(60Hz); 1920x1200(optional VGA)@60Hz; 1920x1080(DP to VGA dongle)@60Hz; 1920x1080(DP to DVI dongle)@60Hz; 3840x2160(DP to HDMI dongle)@30Hz.

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

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

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

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

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

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

### I/O box
I/O box: Two DisplayPort, one optional 3rd DP (not support DP to HDMI dongle) or VGA, supports triple independent display.

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

### WLAN
Some: 11ac wireless, M.2 Card, Realtek RT8821AE (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 1L models)
Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

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

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

### Management
None

### Security chip
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

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

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

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

### Dimensions
<table>
<thead>
<tr>
<th>Model</th>
<th>Width x Depth x Height</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>
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<tr>
<td>M600 Tiny only (2L)</td>
<td>7.05” x 7.20” x 1.35”</td>
<td>4.2 lb (1.9 kg)</td>
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</table>

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

Lenovo, November 2017
<table>
<thead>
<tr>
<th>Model</th>
<th>Region</th>
<th>Case</th>
<th>Processor</th>
<th>vPro</th>
<th>Graphics</th>
<th>Monitor</th>
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<td>Stand</td>
<td>Power Supply</td>
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# ThinkCentre M625 Tiny Platform Specifications

## Processor
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<th>L2 Cache</th>
<th>Memory Types</th>
<th>Integrated Graphics</th>
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## Memory
- 8GB max, DDR4-1866, one 260-pin SO-DIMM socket

## 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
- None

## 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)

## Rear ports
- One USB 3.1 Gen1, three USB 2.0, ethernet (RJ-45), two DisplayPort, two optional ports (Port 1 for VGA / serial / USB 2.0 Type-C (with DisplayPort Alternate Mode), Port 2 for serial)

## I/O box
- * Depending on many factors, actual data transfer speed may be lower than theoretical speed
- None

## 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®
- None

## Manageability Security chip
- None
- Discrete TPM 2.0, TCG Certified
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

## Security features
- None
- Tablet lock
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power-on password

## Mechanical
- Tiny (1L), black color; metal case
- Toolless chassis open (for models with optional toolless chassis screw)
- Toolless HDD, SSD, memory, Wi-Fi removal
- Optional dust filter
- M625 Tiny only:
  - 7.05” W X 7.26” D X 1.36” H
  - 179mm W X 182.89mm 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 preinstalled through downgrade rights in Windows 10 Pro 64-bit
- Preloaded applications (only some listed)
  - Windows 10 only
  - Lenovo Vantage
  - LinkedIn
  - Microsoft Office preloaded; purchase a product key to activate
  - Windows 7 only
  - Lenovo Solution Center
  - Lenovo System Update
  - Factory Recovery
  - User Guide Viewer
  - Microsoft Office preloaded; purchase a product key to activate
  - Adobe® Reader®

## Environment
- ENERGY STAR® 6.1®, EPEAT™ 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](http://smartfind.lenovo.com)

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

**Product Specifications Reference (PSREF)**

**Lenovo, May 2018**

### Processor

<table>
<thead>
<tr>
<th>APU</th>
<th>Cores</th>
<th>Frequency Base/Max</th>
<th>L2 Cache</th>
<th>Memory Types</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>E2-9000e</td>
<td>2</td>
<td>1.5 / 2.0 GHz</td>
<td>1 MB</td>
<td>DDR4-1866</td>
<td>Radeon R2 Series</td>
</tr>
</tbody>
</table>

### Memory

- 8GB max, DDR4-1866, one 260-pin SO-DIMM socket

### Disk

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

### Optical Onboard SATA Media reader

- None
- one SATA 6.0Gb/s connector on planar

### Graphics

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

### Monitor cable

- Optional DP to VGA, DP to DVI-I (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)

### Rear ports*

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

### I/O box

- None

### Audio support

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

### WLAN™

- Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2™ combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.2™ combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2™ combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.2™ combo adapter, 2x2
- Some: Bluetooth 4.2™ wireless, integrated in Wi-Fi + BT combo adapter

### Bluetooth™

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

### Ethernet Modem

- Gigabit ethernet, Realtek RTL8111HN, Wake on LAN®

### Manageability

- None
- Discrete TPM 2.0, TCG Certified
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

### Security features

- None
- 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

### 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

### VESA mount Floor Stand

- 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

### 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®
- 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

Processor Intel® Pentium® or 8th Generation Intel Core™ i3 / i5 Processor

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

Memory 16GB max, DDR4-2666, one 260-pin SO-DIMM sockets, non-ECC
* System automatically clocks down for the processors with lower memory 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
One onboard SATA 6.0Gb/s connector

Onboard SATA

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

Monitor cable

Chipset Intel SoC (System on Chip) platform

Front ports* (Std.) One USB 3.1 Gen1, one USB 3.1 Type-C Gen 1, one microphone (3.5mm), one headphone / microphone combo jack (3.5mm)
Rear ports* (Std.) Two USB 3.1 Gen1, two USB 2.0, one ethernet (RJ-45), one DisplayPort, one HDMI
Rear ports* (Opt.) None
* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support Realtek ALC233VB / internal speaker (1.5 watt)

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

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

Ethernet Gigabit ethernet, Realtek RTB8111EN-CG
Ethernet (Opt.) None

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

Keyboard Mouse
Some: LENeO Calliope Keyboard (USB connector), black
Some: LENeO Calliope Mouse (USB connector), black

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

Dimensions (WxDxH) Weight (Approx.)
Tiny only 7.05” X 7.20” X 1.36” 179mm X 182.9mm X 34.5mm 2.91 lb (1.32 kg), vary by config

Power supply Some: 65 watts adapter, autosensing, 88% PSU

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

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

Preloaded applications (only some listed)
Lenovo Vantage
Microsoft Office preloaded;
Lenovo Vantage
Microsoft Office preloaded;
LinkedIn
Lenovo Vantage
Microsoft Office preloaded;
LinkedIn

Environment ENERGY STAR® 7.0, ErP Lot 3, TCO, RoHS-compliant, WEEE, REACH

MIL-SPEC test Coming soon

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

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

Lenovo, Mar 2019
### ThinkCentre M710 SFF Platform Specifications

#### Processor
- **Intel® Celeron®, Intel Pentium®, or 6/7th Generation Intel Core™ i3 / i5 / i7 Processor**

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency Base/Max(GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
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<tbody>
<tr>
<td>Pentium G4400</td>
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<td>HD 610</td>
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<td>3 MB</td>
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<td>HD 630</td>
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<td>3 MB</td>
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<td>3.4G / 4.0G</td>
<td>8 MB</td>
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</tr>
<tr>
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<td>3 MB</td>
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<td>HD 630</td>
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<td>Core i5-7400</td>
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<td>HD 630</td>
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<tr>
<td>Core i7-7700</td>
<td>4 / 8</td>
<td>3.6G / 4.2G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
</tr>
</tbody>
</table>

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

#### Storage
- Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
- Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
- Some: Intel Optane™ Memory (with 7th gen Core processor), M.2
- Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)
- Some: Three onboard SATA 6.0Gb/s connectors
- Optional 7-in-1 media reader

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

#### Chipset
- Intel® 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 audio 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);
- Optional additional DisplayPort on optional graphics on some models
- Rear audio ports Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)
- None
- * Depending on many factors, actual data transfer speed may be lower than theoretical speed

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

#### WLAN
- Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
- Bluetooth 4.1 wireless, integrated in Wi-Fi + BT combo adapter
- Gigabit ethernet, Realtek RTL8111GN, Wake on LAN
- None

#### Security chip
- None

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

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

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

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

#### Mechanical
- SFF (8.4L), black color; metal case
- * WiDi (802.11ac) 3.6’’ X 11.4’’ X 13.5’’; 92.5mm X 290.5mm X 342.5mm
- Approx. 13.2 lb (6.0 kg), weight may vary by configuration
- Touchless cover, disk, optical removal
- * Optional dust filter

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

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

#### Preload
- Preloaded operating system
- Some: Windows® 7 Professional 32/64
- Some: Windows® 10 Home 64-bit
- Some: Windows® 10 Home 64-bit
- Preloaded applications (only some listed)
- Microsoft Office preloaded;
- - Only for Window 10

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

#### Lenovo, June 2017
<table>
<thead>
<tr>
<th>Model</th>
<th>Region</th>
<th>Processor</th>
<th>vPro</th>
<th>Graphics</th>
<th>Monitor Cable</th>
<th>Memory</th>
<th>Storage(HDD/SSD)</th>
<th>Optical</th>
<th>Optional 2nd 2.5&quot; Bay</th>
<th>Media Reader</th>
<th>WLAN + Bluetooth</th>
<th>Optional Front Ports</th>
<th>Optional Rear Ports</th>
<th>Chassis Intrusion Switch</th>
<th>Cable Lock</th>
<th>Speaker</th>
<th>Dust Filter</th>
<th>Keyboard / Mouse</th>
<th>Power Supply</th>
<th>Operating System</th>
<th>Warranty</th>
<th>Ann Date (mm/yyyy)</th>
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</thead>
<tbody>
<tr>
<td>10M7000DUS</td>
<td>US</td>
<td>i7-7700</td>
<td>No</td>
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<td>210W 85%</td>
<td>Win10 Pro 64</td>
<td>3-year, Onsite</td>
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<td>None</td>
<td>None</td>
<td>Floor Stand</td>
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<td>02/17</td>
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<td>None</td>
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<td>Floor Stand</td>
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<td>Memory</td>
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<td>Speaker</td>
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**Processor**

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<tr>
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<th>Cores / Threads</th>
<th>Frequency Base/Max(GHz)</th>
<th>Cache</th>
<th>Memory Support (Up To)</th>
<th>Integrated Graphics</th>
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<td>2.9G / 3.8G</td>
<td>8 MB</td>
<td>DDR4-2133</td>
<td>HD 530</td>
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</table>

**Memory**

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

**Storage**

Some: Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm
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-RW, slim (9.0mm), via USB external ODD box
Some: DVD Burner (DVD±RW), slim (9.0mm), via USB external ODD box
Some: One on-board SATA 6.0Gb/s connector

**Optical**

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

**Onboard SATA**

One onboard SATA 6.0Gb/s connector

**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

**Monitor cable**

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

**Chipset**

Intel B250 Chipset

**Front ports**

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

**Rear ports**

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

Optional external I/O box, extends two USB 2.0, two USB 3.1 Gen1, and one serial on rear, two USB 2.0 on front, via USB cable (occupy two specific USB 3.1 Gen1 of Tiny)
* Depending on many factors, actual data transfer speed may be lower than theoretical speed

**Audio support**

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

**WLAN™**

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

**Bluetooth™**

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

**Ethernet**

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

**Modem**

None

**Manageability**

None

**Security chip**

None

**TPM (Trusted Platform Module) 2.0*, TCG Certified**

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

**Security features**

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Hard disk password
- Administrator 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
- Tiltless chassis open
- Toolless HDD, SSD, memory removal
- Optional toolless chassis screw
- Optional dust filter

**Dimensions (WxDxH)**

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<th>Dimensions (WxDxH)</th>
<th>Weight (Approx.)</th>
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<td>179mm x 182.9mm x 34.5mm</td>
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<td>188.4mm x 185.38mm x 63mm</td>
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<td>188.4mm x 185.38mm x 66.6mm</td>
<td>vary by config</td>
</tr>
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**Preload**

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

**Preloaded applications (only some listed)**

- Microsoft Office preloaded;
- purchase a product key to activate
- Only for Window 10
- Lenovo Companion
- Only for Window 7
- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- Create Recovery Media
- Adobe® Reader
- Lenovo LinkPowerDVD Create (DVD±RW)

**Environment**

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

**MIL-SPEC test**

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

**Accessories**

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

See footnotes for more detailed information © Lenovo (M710 Tiny-Spec) February 2017
<table>
<thead>
<tr>
<th>Model</th>
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<th>Memory</th>
<th>Storage(HDD/SSD)</th>
<th>External Optical / I/O Box</th>
<th>WLAN + Bluetooth</th>
<th>Optional Rear Ports</th>
<th>Chassis Intrusion Switch</th>
<th>Kensington Cable Lock</th>
<th>Speaker</th>
<th>Adapter Cage</th>
<th>Toolless Chassis Screw</th>
<th>Dust Filter</th>
<th>Keyboard / Mouse</th>
<th>VESA Mount</th>
<th>Stand</th>
<th>Power Supply</th>
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## Memory

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

## Storage

- Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
- Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
- Some: Intel Optane Memory (models with 7th gen Core processor), M.2
- Some: DVD burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)
- Some: Three onboard SATA 6.0Gb/s connectors
- Optional: 7-in-1 media reader

## Optical

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

## 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);
- Rear audio ports*: IEEE 1394*

## Audio

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

## Cellular

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

## Environmental

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

## Management

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

## Mechanical

- Tower (15L), black color, metal case
- * (WxDxH) 5.7" X 11.5" X 14.4"; 145mm X 292.7mm X 366mm
- Approx. 14.3 lb (6.5 kg), weight may vary by configuration
- * Optional 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 x8*
- Slot 2: half-length full-height (length < 189mm, height < 104mm), PCIe 3.0 x1*
- Slot 3: half-length full-height (length < 189mm, height < 104mm), PCIe 3.0 x1*
- Slot 4: no slot, only bracket for optional port extension*
- M.2 card slots: Two (one for WLAN, one for SSD/ 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 (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;
  - 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)
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<td>Optional Rear Ports</td>
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<td>Cable Lock</td>
<td>Speaker</td>
<td>Dust Filter</td>
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## ThinkCentre M710e SFF Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency Base/Max(GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
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<td>DDR4-2400</td>
<td>HD 630</td>
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### 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)

### Optical

- Some: Intel HD Graphics 510/530/610/630 in processor, uses main memory. DirectX® 12, one VGA, one DisplayPort™, supports 2 independent displays, works with discrete graphics to support more displays; Max resolution: 4096x2160 (DP)@60Hz; 1920x1200 (VGA)@60Hz
- Some: NVIDIA GeForce® GT 730, Directx 12, 2GB, PCIe 2.0 x8 adapter, two DisplayPort, 35 watts; Max resolution: 3840x2160 (DisplayPort)@60Hz
- Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

### Monitor cable

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

### Chipset

- Intel B250 Chipset
- Front ports: Two USB 3.1 Gen1, microphone (3.5mm), one headphone / microphone combo jack (3.5mm)
- Rear ports: Two USB 3.1 Gen1, two USB 2.0, optional two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, one DisplayPort, optional external USB to PS/2 ports cable (for PS/2 keyboard / mouse); additional DisplayPort on optional graphics on some models
- Rear audio ports: Line-out jack (3.5mm)
- IEEE 1394: None
- * Depending on many factors, actual data transfer speed may be lower than theoretical speed

### Audio support

- High Definition (HD) Audio, Realtek ALC233 / internal speaker (1.5 watt)
- WLAN: None
- Bluetooth™: None
- Ethernet: Gigabit ethernet, Realtek RTL8111HN, Wake on LAN®
- Modem: None

### Manageability

- None
- TPM (Trusted Platform Module) 2.0, TCG Certified
- Optional down to TPM1.2 for the models with Win10 DG Win7 32 OS

### Security chip

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

### Keyboard

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

### Mouse

- Some: SFF (7.4L), black color, metal case
- (WhereXxWhere) 3.9" X 11.9" X 10.8"; 100mm X 303.5mm X 273.5mm
- Approx. 9.37 lb (4.25 kg), weight may vary by configuration
- Bay 1: Slim external ODD bay
- Bay 2: 3.5", 1" high, internal, supports 2.5" or 3.5" HDD/SSD (2.5 to 3.5 bracket comes with disk)
- Slot 1: low-profile (length < 152mm, height < 64mm), PCIe 3.0 x16
- Slot 2: low-profile (length < 152mm, height < 64mm), PCIe 3.0 x1
- M.2 cards slots: one for SSD
- Optional rear 2x USB2.0 / parallel occupies one expansion slot
- Optional system floor stand for vertical orientation

### Mechanical

- Cross weight (approx.) 14.22 lb (6.45 kg)
- Some: 3-year limited warranty

### 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

### Preload

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

### Preloaded applications (only some listed)

- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD, DVD±RW)
- Cyberlink PowerDVD Create (DVD±RW)
- - Only for Windows 10
- - Only for Windows 7
- - Lenovo Solution Center
- - Lenovo System Update
- - Create Recovery Media
- - Adobe® Reader®

### Environment

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

### Accessories

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

Note: The specifications above may not be available in all regions.
<table>
<thead>
<tr>
<th>Model</th>
<th>Region</th>
<th>Processor</th>
<th>vPro</th>
<th>Graphics</th>
<th>Monitor Cable</th>
<th>Memory</th>
<th>Storage(HDD/SSD)</th>
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<th>Optional Rear Ports</th>
<th>Chassis Intrusion Switch</th>
<th>Cable Lock</th>
<th>Keyboard / Mouse</th>
<th>Stand</th>
<th>Power Supply</th>
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### Processor

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

### Optical

- Some: Optional internal speaker (1.5 watt )
- Optional rear 2x USB2.0 / parallel / 2nd serial occupies one expansion slot
- Optional front USB3.1 Type-C x2 module occupies PCIe x16 slot (x4 card)

### Monitor cable

- Optional rear 2x USB2.0 / parallel / 2nd serial occupies one expansion slot
- Optional 7-in-1 media reader

### Chipset

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

### Security features

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

### Keyboard

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

### Mouse

- Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
- Optional front USB3.1 Type-C x2 module occupies PCIe x16 slot (x4 card), optional rear 2x USB2.0 / parallel / 2nd serial occupies one expansion slot
- Optional system floor stand for vertical orientation

### Power supply

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

### Limited warranty

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

### Preload

- Preloaded operating system
- Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit (Only available with Pro A6/A10/A12-8xxx APUs)
- Some: Windows 10 Home 64-bit
- Preloaded applications (only some listed)
- Microsoft Office preloaded; purchase a product key to activate
- Lenovo Companion
- Only for Window 7
- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- Create Recovery Media
- Adobe® Reader®
- Cyberlink PowerDVD Create (DVD+RW)

### Environment

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

### Accessories

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

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Lenovo, July 2017
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**Memory**

- 32GB max, DDR4 2400, two 26-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
- Some: DVD-ROM, 9.0mm high, via USB external ODD box
- Some: DVD±RW, 9.0mm high, via USB external ODD box
- One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
- None

**Optical**

- One HDMI out
- Some: Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
- Some: Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
- Bluethooth
- Ethernet Modem: None

**Audio support**

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

**WLAN**

- Some: 11ac wireless, M.2 Card, Realtek RT5882B1AE (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Realtek RT5882B2BE (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
- Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter
- Gigabit Ethernet, Realtek RTL8111EPV, Wake on LAN

**Bluetooth**

- None

**Manageability**

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

**Power**

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

**Environmental**

- ENERGY STAR® 6.1*, EPEAT™ Gold rating* (*Not for non-OS models; Preinstalled through downgrade)

**Preload**

- Preloaded operating system
  - Some: Windows 10 Pro 64-bit
  - Some: Windows 10 Home 64-bit
- Preloaded applications (only some listed)
  - Windows 10 only
  - Lenovo Companion
  - Microsoft Office preloaded; purchase a product key to activate
  - Windows 7 only
  - Lenovo Solution Center
  - ThinkVantage System Update
  - Create Recovery Media
  - Lenovo ThinkVantage Tools
  - CyberlinkPowerDVD Create(DVD±RW)
  - Microsoft Office preloaded; purchase a product key to activate
  - *Adobe® Reader®

**Security features**

- Security chip
  - Security features
    - Security slot (in rear for optional Kensington® MicroSaver® cable)
    - Padlock loop
    - Smart USB protection, allows keyboard mouse only, blocks all storage devices
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**Lenovo**, October 2017

http://www.lenovoquickpick.com
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<th>Region</th>
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<th>vPro</th>
<th>Graphics</th>
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### Processor Specifications

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<td><strong>Integrated Graphics</strong></td>
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### Memory Specifications

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

### Disk Specifications

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

### Optical Specifications

- 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 Specifications

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

### Monitor Cable

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

### Chipset Specifications

- **AMD B300 Chipset**

### Front Ports

- Two USB 3.1 Gen1 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
- Rear ports* (Std.) One USB 3.1 Gen1 and three USB 2.0, ethernet (RJ-45), two DisplayPort, one headphone
- Rear ports* (Opt.) One optional port (VGA**, 3rd DP**, HDMI**, or serial on some models)
  - Depending on many factors, actual data transfer speed may be less than theoretical speed

### 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, Realtek Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2

### Bluetooth

- 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 RTL8111E/PV, 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

### Mechanical

- Tiny (1L), black color; metal case
- *Toolless chassis open (need optional toolless chassis screw)
- *Optional dust filter
- M715 Gen2 Tiny only:
  - 7.05" W X 7.20" D X 1.36" H
  - 179mm W X 182.9mm D X 34.5mm H
  - 2.91 lb (1.32 kg), weight may vary by configuration
  - With VESA mount & ODD box:
    - 7.42" W X 7.30" D X 2.48" H
    - 188.4mm W X 185.38mm D X 63mm H

### Power Supply

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

### Preload

- **Preloaded operating system**
  - Windows 10 Home 64-bit
  - Windows 7 Professional 64
  - Windows 10 Pro 64-bit

- **Preloaded applications (only some listed)**
  - Windows 10 only
  - Lenovo Vantage
  - Microsoft Office preloaded; purchase a product key to activate
  - Cyberlink PowerDVD (only for models with DVD / DVD+RW)
  - Cyberlink Power2Go (only for models with DVD±RW)
  - Lenovo Solution Center
  - ThinkVantage System Update
  - Create Recovery Media
  - Microsoft Office preloaded; purchase a product key to activate
  - Adobe® Reader®

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

- **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

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

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

**Product Specifications Reference (PSREF)**  
Lenovo, October 2017

<table>
<thead>
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<th>Processor</th>
<th>AMD A6, A10, or A12 series APUs</th>
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<tr>
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<tr>
<td>PRO A12-8870E</td>
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*PRO A12-8870E (support Windows 10 IOT only) is only available via special bid models

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<td>*256GB SATA (support Windows 10 IOT only) is only available via special bid models</td>
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<td>Some: 32GB M.2 Solid State Drive (SSD) / SATA interface</td>
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<td>Some: 128GB M.2 Solid State Drive (SSD) / PCIe NVMe interface</td>
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<td>Optical Onboard SATA Media reader</td>
<td>One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar</td>
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<td>Graphics</td>
<td>AMD Radeon™ Graphics in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional port (HDMI, VGA, or 3rd DP), supports 3 independent displays (supports maximum of 2 concurrent HDMI/DVI displays when using HDMI port or DP to DVI/HDMI dongles);</td>
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<td>Max resolution: 4096x2160 (DP)@60Hz; 4096x2160 (HDMI)@30Hz; 1920x1200 (VGA)@60Hz</td>
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<tr>
<td>DP cable</td>
<td>Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle</td>
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<tr>
<td>Chipset</td>
<td>AMD B300 Chipset</td>
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<tr>
<td>Front ports*</td>
<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>
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<tr>
<td>Rear ports*</td>
<td>One USB 3.0 and three USB 2.0 (optional external optical box or I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, HDMI, or serial on some models), one headphone</td>
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<td>I/O box</td>
<td>* Depending on many factors, actual data transfer speed may be lower than theoretical speed</td>
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<tr>
<td>Audio support</td>
<td>High Definition (HD) Audio, Realtek ALC233-CG / internal speaker (1.5 watt)</td>
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<td>Gigabit ethernet, Realtek RTL8111EPV, Wake on LAN™</td>
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<td>• Padlock loop</td>
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<td>• Chassis intrusion switch</td>
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**Keyboard Mouse**  
Some: Fullsize USB Keyboard (USB connector), Lenovo logo
Some: USB Optical Wheel Mouse, black, Lenovo logo

**Mechanical**  
M715 Tiny only: Tiny (1L), black color; metal case

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

**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; GREENGUARD®; RoHS-compliant

**Accessories**  
For compatible accessories, please go to [http://www.lenovoquickpick.com](http://www.lenovoquickpick.com)
<table>
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<th>Model</th>
<th>Region</th>
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ThinkCentre M715 Tiny Thin Client (2nd Gen) Platform Specifications

**Processor**

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<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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**Memory**

8GB max, DDR4 2666*, two 260-pin SO-DIMM sockets, dual-channel capable.

* System automatically clocks down for the lower memory controller.

**Disk**

- Some: 32GB M.2 Solid State Drive (SSD) / SATA interface
- Some: 128GB M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 2
- None

**Optical Onboard SATA**

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

**Graphics**

AMD Radeon™ Graphics in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional port (HDMI, VGA, or 3rd DP), supports 3 independent displays (supports maximum of 2 concurrent HDMI/DVI displays when using HDMI port or DP to DVI/DVI 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**

AMDB300 Chipset

**Front ports** (Std.)

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

**Rear ports** (Std.)

One USB 3.1 Gen1 and three USB 2.0, ethernet (RJ-45), two DisplayPort, one headphone

**Rear ports** (Opt.)

One optional port (VGA**, 3rd DP**, HDMI**, or serial on some models)

* Depending on many factors, actual data transfer speed may be lower than theoretical speed
** Not support VGA, 3rd DP, HDMI for the models with Athlon / Athlon PRO

**Audio support**

High Definition (HD) Audio, Realtek ALC233-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

**Bluetooth**

* 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 disengagement
- Chassis intrusion switch

**Keyboard**

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

**Mouse**

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

**Mechanical**

Tiny (1L), black color; metal case

- Toolless chassis open (need optional toolless chassis screw)
- Optional dust filter

**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

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

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

Lenovo, July 2018
**ThinkCentre M720 SFF Platform Specifications**

**Product Specifications Reference (PSREF)**

### Processor

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<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
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<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
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### Memory

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

### Storage

- Some: Hard Drive / SATA 6.0Gb/s, 2.5” or 3.5”, 5400 rpm or 7200 rpm
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5”
- Some: M.2 Solid State Drive (SSD) / PCle NVMe, PCle 3.0 x 4, 32GB/s
- Some: M.2 SSD (2242) PCle NVMe only supports PCle 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)
- Some: M.2 SSD (2280) PCIe NVMe supports PCIe 3.0 x 2, 32GB/s
- Some: M.2 SSD (2280) PCIe NVMe supports PCIe 3.0 x 4, 64GB/s

### 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: 4096x2160 (DP) @60Hz; 2048x1536 (VGA) @50Hz
- NVIDIA GeForce® GT 730, supports 3 independent displays, works along with discrete graphics, supports 3 independent displays, works along with discrete graphics to support more displays;
- Max resolution: 3840x2160 (DisplayPort) @60Hz;
- Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle (for Collage Display with integrated graphics), or DP to HDMI 1.4 dongle

### Chipset

- Intel B360 Chipset

### Ethernet

- Gigabit ethernet, Intel Ethernet Connection I219-V (Jacksonville), Wake on LAN®
- Some: Intel Ethernet Server Adapter I350-T4®, gigabit ethernet, 4x RJ-45, PCIe x4
- Some: BitFen BNEB8®, gigabit ethernet, PCIe x1 (only available via special bid)
- * Choose either I350-T4 or BNEB8

### Manageability

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

### Bluetooth

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

### Mechanical

- 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 < 147mm, height < 68.9mm), PCle 3.0 x 16
- Slot 2: low-profile (length < 147mm, height < 68.9mm), PCle 3.0 x 1
- Slot 3: low-profile (length < 147mm, height < 68.9mm), PCle 3.0 x 1
- Slot 4: no slot, only bracket for optional port extension
- M.2 card slots: Two (one for WLAN, one for SSD/Timer)
- Optional chassis E-Lock (special bid)
- Optional chassis intrusion switch
- Padlock loop
- Security slot (in rear for optional

### Floor Stand

- Optional system floor stand for vertical orientation

### Power supply

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

### Limited warranty

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

### Preload

- 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

### 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 2018
**ThinkCentre M720 Tiny Platform Specifications**

**Processor**
- Intel Celeron®, Intel Pentium®, or 8th Generation Intel Core™ i3 / i5 / i7 Processor
- Core™ i3-8100T
- Core™ i3-8300T
- Core™ i5-8400T
- Core™ i5-8500T
- Core™ i7-8700T

**Memory**
- 32GB max, DDR4-2666*, two 260-pin SO-DIMM sockets, non-ECC
- UHD 630
- DDR4-2400
- Cache 6 MB

**Storage**
- Some: Hard Drive / SATA 6.0Gb/s, 2.5”, 5400 rpm or 7200 rpm
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5”
- Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4*, 32Gb/s
- * 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s
- Some: Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2

**Optical**
- Some: DVD-ROM, slim (9.0mm), via USB external ODD box
- Some: DVD Burner (DVD+RW), slim (9.0mm), via USB external ODD box

**Onboard SATA**
- One onboard SATA 6.0Gb/s connector

**Graphics**
- Intel HD Graphics 610/630 in processor, uses main memory, DirectX® 12, one DisplayPort™, one HDMI, one optional video port (2nd HDMI, VGA, 2nd DP, or USB 3.1 Type-C Gen 1 with DisplayPort function), up to 3 independent displays; 
- Max resolution: 4096x2304 (DP) @ 60Hz; 4096x2304 (Type-C) @ 60Hz; 4096x2160 (onboard HDMI) @ 24Hz; 2048x1536 (VGA) @ 50Hz
- Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle (for Collage Display with Intel integrated graphics), or DP to HDMI 1.4 dongle

**Chipset**
- Intel B360 Chipset

**Front ports**
- 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**
- Two optional ports (mutually exclusive with PCIe card): Port 1 for VGA / 2nd DP / 2nd HDMI / serial / USB 3.1 Type-C Gen 1 with DP function; Port 2 for serial; 
- Optional ports via PCIe card: 2x USB 3.1 Gen1 via PCIe x1, 4x serial (9-pin) via PCIe x1

**WLAN**
- Some: 11ac wireless, M.2 Card, Realtek RTL8822CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 2.4 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2

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

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

**MIL-SPEC test**

**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

**Power supply**
- 65 watts AC/DC adapter, autoselecting, 88% PSU

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

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

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

Lenovo, July 2018
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<tr>
<th>Model</th>
<th>Region</th>
<th>Processor</th>
<th>vPro</th>
<th>Graphics</th>
<th>Monitor Cable</th>
<th>Memory</th>
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<th>Ethernet</th>
<th>Optional Rear Ports</th>
<th>Extension Card</th>
<th>Kensington Lock</th>
<th>Adapter Cage</th>
<th>Toolless Chassis Screw</th>
<th>Dust VESA Filter Mount</th>
<th>Stand</th>
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### Memory Specifications
- 64GB max, UDIMM, DDR4-2666*, four 288-pin DIMM sockets, non-ECC, dual-channel capable
- * System automatically locks down for the processors with lower memory controller

### Storage Specifications
- 1x parallel (25-pin), 2x PS/2 ports (keyboard/mouse), additional RJ-45 and video ports available on optional graphics cards 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

### Graphics 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
- 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 1.4 dongle

### Chipset Specifications
- 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 jack combo (3.5mm)
- (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)
- (Opt.) 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 cards or ethernet card

### Audio support
- High Definition (HD) Audio, Realtek ALC2323VB / 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

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

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

### Security Features
- None

### Preloaded Operating System
- Windows® 10 Pro 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)

### Environment
- ENERGY STAR® 6.1, EPEAT™ Gold rating (North America), ErP Lot 3, TCO

### 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 2018
Processor AMD A6 / A8 / A10 and Ryzen 3 / 5 / 7 series processor

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<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
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Memory 64GB max, UDIMM, DDR4-2666**, four 288-pin DiMM sockets, non-ECC, dual-channel capable

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, 3200/5000 Mb/s
* 128GB SSD M.2 (2242) PCIe NVMe and AMD A6 / A8 / A10 / A12 processor only supports PCIe 3.0 x 0, 16Gb/s

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

Onboard SATA Three onboard SATA 6.0Gb/s connectors, RAID 0/1/5 support (RAID preset only available via special bid model)

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 (x8 elec., adapter, two DisplayPort, 35 watts; Max resolution: 3840x2160 (DisplayPort)@60Hz

Monitor cable Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle, of DP to HDMI 1.4 dongle

Chipset AMD B450 Chipset

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

Front ports* (Opt.) Optional: 1x media reader, 2x USB 3.1 Type-C Gen2 via PCIe card (special bid only)

Rear ports* (Std.) 2x USB 3.1 Gen1, 2x USB 2.0, 1x serial (9-pin), 1x ethernet (RJ-45), 1x VGA**, 2x DisplayPort**, 2x PS/2 ports (keyboard / mouse), 1x line-in (3.5mm), 1x line-out (3.5mm), 1x microphone (3.5mm)

Rear ports* (Opt.) Optional: 2x USB 2.0, 1x 2nd serial (9-pin), 1x parallel (25-pin), additional RJ-45 and video ports available on optional graphics or ethernet card.

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

WLAN Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 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

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

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

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 Keyboard (PS/2 connector), black (only available via special bid)
Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo FingerTip Mouse (USB connector), Windows Hello support, black
Some: Lenovo Mouse (PS/2 connector), black (only available via special bid)

Mouse

Mechanical
• SFF (8.4L), black color: metal case
• (WxDxH) 3.6" X 11.4" X 13.5"; 92.5mm X 290.5mm X 343.5mm
• Approx. 13.2 lb (6.0 kg), weight may vary by configuration
• Toolless cover, disk, optical removal
• Optional dust filter

Floor Stand Optional system floor stand for vertical orientation

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

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

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

Preloaded applications (only some listed)
• Lenovo Vantage
• Microsoft Office preloaded
• purchase a product key to activate
• Cyberlink PowerDVD (only for models with DVD / DVD+RW)
• Cyberlink Power2GO (only for models with DVD+RW)
• LinkedIn

Environment ENERGY STAR® 7.0*, EPEAT Gold rating* (*not for non-OEM models);
Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

LinkedIn

Accessories For compatible accessories, please go to http://smartfind.lenovo.com
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Processor: Intel® Celeron®, Intel Pentium®, or 6/7th Generation Intel Core™ i3 / i5 / i7 Processor

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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 controllers.

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

Optical:
- Some: DVD-ROM 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

Chipset:
- Intel Q270 Chipset

Front ports:
- Four USB 3.1 Gen 1, 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 Gen 1, optional two USB 2.0, serial (9-pin), optional serial (9-pin), one VGA, two DisplayPort, optional two PS/2 ports (keyboard/mouse);
- 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

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

Modem:
- None

Manageability:
- Intel Active Management Technology 11.0 (Intel AMT 11.0);
- Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)
- TPM (Trusted Platform Module) 2.0, TCG Certified

Security chip:
- Downgrade to TPM1.2 for the models with Win10 DG Win7 32 OS
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**Processor**

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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 controllers

**Storage**

- Some: Hard Drive / SATA 6.0GB/s, 2.5", 5400 rpm or 7200 rpm, APS
- Some: Solid State Drive (SSD) / SATA 6.0GB/s, 2.5"
- Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32GB/s
- Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2
- Some: DVD-ROM, slim (9.0mm), via USB external ODD box
- Some: DVD Burner (DVD±RW), slim (9.0mm), via USB external ODD box
- One onboard SATA 6.0GB/s connector

**Optical**

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

**Chipset**

- Intel Q270 Chipset

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

**Front ports**

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

**Rear ports**

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

**I/O box**

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

**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

**Keyboard**

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

**Mouse**

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

**Mechanical**

- Tiny (1L), black color; metal case
- Toolless chassis open
- Toolless HDD, SSD, memory removal
- Optional toolless 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; 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, EPA EPEAT® Gold rating (North America), ErP Lot 3, GREENGUARD®, RoHS-compliant, TUV low noise verified (on some models)

**MIL-SPEC test**


**Accessories**

- For compatible accessories, please go to [http://www.lenovoquickpick.com](http://www.lenovoquickpick.com)
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<thead>
<tr>
<th>Model</th>
<th>Region</th>
<th>Processor</th>
<th>vPro</th>
<th>Graphics</th>
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<th>Memory</th>
<th>Storage(HDD/SSD)</th>
<th>External Optical / I/O Box</th>
<th>WLAN + Bluetooth</th>
<th>Optional Rear Ports</th>
<th>Chassis Intrusion Switch</th>
<th>Kensington Cable Lock</th>
<th>Speaker</th>
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<th>Keyboard / Mouse</th>
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ThinkCentre M910 Tiny - TopSeller - 10MV - 2 of 3
Model

Region Processor vPro Graphics

10MV002NUS

US

i5-6500T vPro

Intel HD
530

10MV002PUS

US

i5-7500T vPro

Intel HD
630

10MV002QUS

US

i7-7700T vPro

Intel HD
630

10MV002RUS

US

i7-7700T vPro

Intel HD
630

10MV002SUS

US

i5-6500T vPro

Intel HD
530

10MV002TUS

US

i7-6700T vPro

Intel HD
530

10MV002UUS

US

i7-6700T vPro

Intel HD
530

10MV002VUS

US

i7-7700T vPro

Intel HD
630

10MV002WUS

US

i7-6700T vPro

Intel HD
530

10MV002XUS

US

i5-7500T vPro

Intel HD
630

10MV002YUS

US

i5-6500T vPro

Intel HD
530

10MV0030US

US

i5-6500T vPro

Intel HD
530

10MV0031US

US

i5-6500T vPro

Intel HD
530

10MV0032US

US

i5-6500T vPro

Intel HD
530

10MV0033US

US

i7-6700T vPro

Intel HD
530

10MV0034US

US

i5-6500T vPro

Intel HD
530

10MV0035US

US

i7-7700T vPro

Intel HD
630

10MV0036US

US

i5-6500T vPro

Intel HD
530

10MV0037US

US

i5-6500T vPro

Intel HD
530

10MV0038US

US

i5-6500T vPro

Intel HD
530

Product Specifications Reference (PSREF)

External
Optional Chassis
Toolless
Ann
Monitor
WLAN +
Kensington
Adapter
Dust Keyboard VESA
Power Operating
End of
Memory Storage(HDD/SSD) Optical /
Rear Intrusion
Speaker
Chassis
Stand
Warranty
Date
Cable
Bluetooth
Cable Lock
Cage
Filter / Mouse Mount
Supply System
Support
I/O Box
Ports
Switch
Screw
(mm/yy)
8265 ac,
65W Win10 DG
USB /
Floor
3-year, Apr 21,
None 4GBx1 500GB 7200rpm 2.5" None 2x2, vPro Serial
Switch
None
1Wx1
None
None None
None
88% Win7 Pro
03/17
USB
Stand
Onsite
2023
+ BT4.1
Adapter
64
8265 ac,
65W
512GB SSD M.2
USB /
Floor
Win10 Pro 3-year, Apr 21,
None 8GBx2
None 2x2, vPro 3rd DP Switch
None
1Wx1
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None
88%
03/17
PCIe NVMe
USB
Stand
64
Onsite
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+ BT4.1
Adapter
8265 ac,
65W
512GB SSD M.2
USB /
Floor
Win10 Pro 3-year, Apr 21,
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8265 ac,
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8265 ac,
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Floor
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Adapter
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65W Win10 DG
512GB SSD M.2
USB /
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Floor
Win10 Pro 3-year, Apr 21,
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Win10 Pro 3-year, Apr 21,
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8GB 500GB 7200rpm 2.5" None 2x2, vPro 3rd DP Switch
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1Wx1
None
None None
None
88% Win7 Pro
03/17
USB
Stand
Onsite
2023
+ BT4.1
Adapter
64

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<th>Region</th>
<th>Processor</th>
<th>vPro</th>
<th>Graphics</th>
<th>Monitor Cable</th>
<th>Memory</th>
<th>Storage (HDD/SSD)</th>
<th>External Optical Drive / Optical Drive Bay</th>
<th>WLAN + Bluetooth</th>
<th>Optional Rear Ports</th>
<th>Chassis Intrusion Switch</th>
<th>Wireless Switch</th>
<th>Kensington Lock</th>
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<th>Toolsless Chassis Screw</th>
<th>Mounting Kit</th>
<th>Power Supply</th>
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<td>Win10 Pro</td>
<td>3-year, Onsite</td>
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ThinkCentre M910 Tower Platform Specifications

Processor
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<td>Core i5-7600</td>
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<td>Core i7-7700</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"x8
Some: M.2 B+M 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: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1 combo
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; 2048x1336 (VGA) @ 50Hz
Some: NVIDIA GeForce® GT 730, DirectX 12, 2GB, PCIe 2.0 x8 adapter, two DisplayPort, 35 watts;
Max resolution: 3840x2160 (DisplayPort) @ 60Hz;
Some: AMD Radeon™ R7 370, DirectX 11, 2GB, PCIe 3.0 x8 adapter, one VGA, one HDMI, 75 watts, occupies two slots;
Max resolution: 4096x2160 (HDMI) @ 24Hz; 2048x1336 (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 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional two PS/2 ports (keyboard/mouse);
Rear audio ports*
IEEE 1394a
Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm);
None
* Depending on many factors, actual data transfer speed may be lower than theoretical speed

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

WLAN
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A7 (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, 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 Wi-Fi 6 (Gig+) vPro technology support, 2x2
Some: Blueto...

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 TPM 1.2 for the models with Win10 DG Win7 32 OS

Security chip
Security features
● Security slot (in rear for optional Kensington® MicroSaver® cable)
● Password lock, allows keyboard/mouse only, blocks all storage devices
● Optional cable lock to physically lock both keyboard and mouse
● Smart USB protection, allows keyboard/mouse only, blocks all storage devices
● 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
● Optional chassis intrusion switch

Security features
● Security features

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

Mechanical
● Tower (18L), black color, metal case
● (WxDxH) 6.5" X 12.65" X 16.15"; 165mm X 321.55mm X 410.25mm
● Approx. 15.45 lb (7 kg), weight may vary by configuration
● Touchless cover, disk, optical, graphic card removal
● Optional carry handle, dust filter
● Bay 1: Slim external odd bay
● Bay 2: 5.25", 1.6" high, external, ODD / optional front access HDD
● Bay 3: 3.5", 1.5" 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 one eSATA device (front access HDD)
Slot 1: full-length full-height (length < 268mm, height < 112mm), PCIe 3.0 x16
Slot 2: full-length full-height (length < 268mm, height < 112mm), PCIe 3.0 x16
Slot 3: full-length full-height (length < 268mm, height < 112mm), PCIe 3.0 x16 (x4 signal)
Slot 4: no slot, only bracket for optional port extension
M.2 card slots:
Two (one for WLAN, one for SSD/Optane)
* Optional 2 front USB3.1 Type-C ports module occupies PCIe x16 (x4 signal) slot, optional rear 2x USB2.0 / parallel / 2nd serial one occupies 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
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 preloaded through downgrade (not available with 7th Gen Intel processor)
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

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

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

Lenovo, August 2017
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<td>Apr 28, 2023</td>
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<td>Apr 27, 2024</td>
<td>03/18</td>
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</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.

<table>
<thead>
<tr>
<th>Storage</th>
<th>Some: Hard Drive / SATA 6.0Gb/s, 2.5”, 5400 rpm or 7200 rpm, APS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5” (* 2.5” HDD/SSD and RX 460 graphics are mutually exclusive)</td>
</tr>
<tr>
<td></td>
<td>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)</td>
</tr>
<tr>
<td></td>
<td>Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2</td>
</tr>
<tr>
<td></td>
<td>Some: DVD-ROM, slim (9.0mm), via USB external odd box</td>
</tr>
<tr>
<td></td>
<td>Some: DVD Burner (DVD+RW), slim (9.0mm), via USB external odd box</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Optical</th>
<th>One onboard SATA 6.0Gb/s connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media reader</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Graphics</th>
<th>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;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Max resolution: 4096x2304 (DP)@60Hz; 4096x2304 (Type-C)@60Hz; 7680x4320 @60Hz (DP); 5120x2880 @60Hz (DP)</td>
</tr>
<tr>
<td>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 a onboard DisplayPort; supports up to 6 independent displays;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Max resolution: 5120x2880 @60Hz (up to 2 mini DisplayPort); 4096x2160 @60Hz (up to 4 mini DisplayPort)</td>
</tr>
</tbody>
</table>

| 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* | One 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) |
| I/O box* | Optional external I/O box, extends two USB 2.0, two USB 3.1 Gen1, and one serial on rear, two USB 2.0 on front, via USB cable (occupy 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, 1x1 |
|          | 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: Bluetooth 4.2 wireless, integrated in Wi-Fi + BT combo adapter |

| Bluetooth™ | Hardware supports BT 4.2, but Win10 RS3 and earlier only supports BT 4.1 |

<table>
<thead>
<tr>
<th>Ethernet</th>
<th>Gigabit ethernet, Intel Ethernet Connection I219-LM(Jacksonville), Wake on LAN*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manageability</td>
<td>Intel Active Management Technology 11.0 (Intel AMT 11.0); Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)</td>
</tr>
<tr>
<td>Security chip</td>
<td>TPM (Trusted Platform Module) 2.0*, TCG Certified</td>
</tr>
<tr>
<td>Security features</td>
<td>* Downgrade to TPM1.2 for the models with Win10 DG Win7 32 OS</td>
</tr>
<tr>
<td></td>
<td>· Security slot (in rear for optional Kensington® MicroSaver® cable)</td>
</tr>
<tr>
<td></td>
<td>· Smart USB protection, allows keyboard/ mouse only, blocks all storage devices</td>
</tr>
<tr>
<td></td>
<td>· Power-on password</td>
</tr>
<tr>
<td></td>
<td>· Administrator password</td>
</tr>
<tr>
<td></td>
<td>· Hard disk password</td>
</tr>
<tr>
<td></td>
<td>· Boot sequence control</td>
</tr>
<tr>
<td></td>
<td>· Boot without keyboard and mouse</td>
</tr>
<tr>
<td></td>
<td>· Individual USB port disabling</td>
</tr>
<tr>
<td></td>
<td>· Chassis intrusion switch</td>
</tr>
</tbody>
</table>

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

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

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

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

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

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

<p>| Accessories | For compatible accessories, please go to <a href="http://www.lenovoquickpick.com">http://www.lenovoquickpick.com</a> |</p>
<table>
<thead>
<tr>
<th>Model</th>
<th>Region</th>
<th>Processor</th>
<th>vPro</th>
<th>Graphics</th>
<th>Monitor Cable</th>
<th>Memory</th>
<th>Storage(HDD/SSD)</th>
<th>External Optical / I/O Box</th>
<th>WLAN + Bluetooth</th>
<th>Optional Rear Ports</th>
<th>Chassis Intrusion Switch</th>
<th>Kensington Cable Lock</th>
<th>Speaker</th>
<th>Adapter Cage</th>
<th>Toolless Chassis Screw</th>
<th>Dust Filter</th>
<th>Keyboard / Mouse</th>
<th>VESA Mount</th>
<th>Power Supply</th>
<th>Operating System</th>
<th>Warranty</th>
<th>Ann Date (mm/yy)</th>
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<td>Switch</td>
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<td>Model</td>
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<td>Processor</td>
<td>vPro</td>
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<td>Monitor Cable</td>
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ThinkCentre M920 SFF Platform Specifications

**Processor**

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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>
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<td>Intel G4900</td>
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**Memory**

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

**Storage**

- **Some:** Hard Drive / SATA 6.Gb/s, 2.5” or 3.5”, 5400 rpm or 7200 rpm
- **Some:** Solid State Drive (SSD) / SATA 6.Gb/s, 2.5”
- **Some:** M.2 Solid State Drive (NVMe), PCIe Gen3 x8, 32GB/s
- **Some:** M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32GB/s
- **Some:** M.2 SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16GB/s
- **Some:** Intel Optane Memory (not support Celeron / Pentium Processor), M.2
- **Some:** DVD-ROM, SATA 1.5Gb/s Drive, slim (9.0mm)
- **Some:** DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)

**Optical**

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

**Media reader**

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

**Graphics**

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

**Monitor cable**

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

**Chipset**

- **Intel Q370 Chipset**

**Front ports**

- **Std.** 2x USB 2.0 Gen2, 2x USB 3.1 Gen1, 1x USB 3.1 Type-C Gen1 (15W charging), 1x microphone (3.5mm), 1x headphone / microphone jack (3.5mm)
- **Opt.** 1x microphone reader

**Rear ports**

- **Std.** 4x USB 3.1 Gen1, 1x serial (9-pin), 1x ethernet (RJ-45), 1x VGA, 2x DisplayPort, 1x line-out (3.5mm)
- **Opt.** 2x USB 3.0, 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), 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 ALC233V8B / internal speaker (2 watt)

**WLAN**

- **Some:** 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x
- **Some:** 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x

**Audio support**

- **High Definition (HD) Audio, Realtek ALC233V8B / internal speaker (2 watt)**

**Power supply**

- **Some:** 180 watts, autoseensing, 85% PSU
- **Some:** 210 watts, autoseensing, 85% PSU
- **Some:** 260 watts, autosensing, 92% PSU (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® 10 Pro 64-bit
  - **Some:** Windows 10 Home 64-bit
- **Preloaded applications (some listed)**
  - **Lenovo Vantage**
  - **Microsoft Office preloaded**
  - **Cyberlink PowerDVD (only for models with DVD / DVD±RW)
  - **Cyberlink Power2GO (only for models with DVD±RW)**
  - **LinkedIn**

**Environment**

- **ENERGY STAR® 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, July 2018
**ThinkCentre M920 Tiny Platform Specifications**

**Product Specifications Reference (PSREF)**

<table>
<thead>
<tr>
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**Memory** 32GB max, DDR4-2666*, two 260-pin SO-DIMM sockets, non-ECC, dual-channel capable

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

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

**Optical**

- **Some:** One onboard SATA 6.0Gb/s connector

**Graphics**

- **Intel HD Graphics 610/630** in processor, uses main memory, DirectX® 12, one DisplayPort™ one HDMI port, one optional video port (2nd HDMI, VGA, 2nd DP) or USB 3.1 Type-C Gen 1 with DisplayPort function, up to 10 independent displays; **Max resolution:** 4096x2304 (DP) @ 60Hz; 4096x2304 (Type-C) @ 60Hz; 4096x2160 (onboard HDMI) @ 24Hz; 2048x1536 (VGA) @ 50Hz

**Monitor cable**

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

**Chipset**

- **Intel Q370 Chipset**

**Front ports (Std.)**

- **Some:** 1 USB 3.1 Gen1 (Always On and Fast Charge), one USB 3.1 Type-C Gen 1, one microphone (3.5mm), one headphone / microphone combo jack (3.5mm)

**Rear ports (Std.)**

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

**Rear ports (Opt.)**

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

**Audio support**

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

**WLAN**

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

**Bluetooth**

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

**Ethernet**

- 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

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

**Security features**

- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices

**Keyboard**

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

**Mouse**

- **Some:** Lenovo Unite (Machine Type 10V8 models only)

**Mechanical**

- **Tiny (1L), black color; metal case**
- **Tiltable chassis open (need optional tiltable chassis screw)**
- **Tiltable 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

**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

**Preload**

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

**Preloaded applications (only some listed)**

- **Lenovo Vantage**
- **Microsoft Office preload**
- **purchase a product key to activate**
- **Cyberlink PowerDVD (only for models with DVD / DVD±RW)**
- **Cyberlink Power2GO (only for models with DVD±RW)**
- **LinkedIn**
- **Intel Unite (Machine Type 10V8 models only)**

**Environment**

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

**MIL-SPEC test**


**Accessories**

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

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Lenovo, July 2018
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<th>Graphics</th>
<th>Monitor Cable</th>
<th>Memory</th>
<th>Storage (HDD/SSD)</th>
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<td>Memory</td>
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<td>Toolless Chassis Speaker</td>
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ThinkCentre M920 Tower Platform Specifications

**Processor**

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<th>Cache</th>
<th>Memory Support (Up to)</th>
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**Memory**

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

**Storage**

- Some: Hard Drive / SATA 6.0Gb/s, 2.5” or 3.5”, 5400 rpm or 7200 rpm
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5”
- Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
  - SSD M.2 (2242) PCIE NVMe only supports PCIe 3.0 x 2, 16Gb/s

**Optical Drive**

- Optional DVD-Rom or DVD Burner (DVD+R/W), SATA 1.5Gb/s Drive, slim (9.0mm)

**Memory (not support Celeron / Pentium Processor**

- Optional DVD-ROM or DVD Burner (DVD+R/W), SATA 1.5Gb/s Drive, slim (9.0mm)

**Graphics**

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

**Chipset**

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**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 3.1 Gen1, 1x serial (9-pin), 1x ethernet (RJ-45), 1x VGA, 2x DisplayPort, 1x line-out (3.5mm)

**Rear ports** (Opt.) 2x USB 2.0, 2x USB 3.1 Gen1 via PCIe x1, 2x USB 3.1 Type-C Gen2 via PCIe x4 (special 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 ALC233VB / internal speaker (2 watt )

**WLAN**

- Some: 11ac wireless, M.2 Card, Realtek RTL8882CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Realtek RTL8882BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2

**Optical Onboard SATA**

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

**Media reader**

- Optional 17-in-1 media reader

**Keyboard**

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

**Mouse**

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

**Discrete TPM 2.0, CTO Certified**

**Security features**

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

**Mechanical**

- Tower (18L), black color, metal case
- (WxDxH) 6.5” x 12.65” x 16.15”
- Approx. 15.45 lb (7 kg), weight may vary by configuration
- Towerless, disk, optical, extension card removal
- Optional carry handle, dust filter
- Bay 1: Slim external ODD bay
- Bay 2: 5.25”, 1.6" high, external, ODD / optional front access HDD
- Bay 3: 3.5", 1” high, internal, HDD/SSD
- Bay 4: 3.5”, 1” high, internal, HDD/SSD (optional bay, bay comes with disk)
- Bay 5: 2.5”, internal, HDD/SSD (optional bay)
- Notes: M920 Tower supports up to 3 SATA devices (ODD/HDD/SSD) and 1 eSATA device (front access HDD)

**Environment**

- Approx. 15.45 lb (7 kg), weight may vary by configuration
- Max resolution: 4096x2304 (DP) @ 60Hz; 2048x1536 (VGA) @ 50Hz
- Max resolution: 3840x2160 (DisplayPort) @ 60Hz
- Max resolution: 2560x1600 (DVI-D) @ 60Hz; 4096x2160 (DVI-D) @ 60Hz
- Max resolution: 5120x3072 (DisplayPort) @ 60Hz

**Graphics**

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

**Power supply**

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

**Limited warranty**

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

**Preload**

- Preloaded operating system
  - Some: Windows 10 Pro 64-bit
  - Some: Windows Home 64-bit
- Preloaded applications (only some listed)
  - Lenovo Vantage
  - Microsoft Office preloaded
  - Cyberlink PowerDVD (only for models with DVD / DvD+RW)
  - Cyberlink Power2GO (only for models with DVD / DvD+RW)
  - LinkedIn

**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, July 2018
ThinkCentre M920x Tiny Platform Specifications

Product Specifications Reference (PSREF)

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

Lenovo, July 2018
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<td>Stand</td>
<td>USB / USB</td>
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<td>US</td>
<td>i5-8500</td>
<td>vPro</td>
<td>Intel UHD 630</td>
<td>None</td>
<td>8GBx1</td>
<td>512GB SSD M.2 PCIe NVMe Opal</td>
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<td>None</td>
<td>None</td>
<td>None</td>
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<tr>
<td>Model</td>
<td>Region</td>
<td>Processor</td>
<td>vPro</td>
<td>Graphics</td>
<td>Monitor</td>
<td>Cable</td>
<td>Memory</td>
<td>Storage(HDD/SSD)</td>
<td>Optical</td>
<td>WLAN + Bluetooth</td>
<td>Ethernet</td>
<td>Optional Rear Ports</td>
<td>Extension Card</td>
<td>Kensington Cable Lock</td>
<td>Adapter Cage</td>
<td>Toolless Chassis Screw</td>
<td>Dust Filter Mount</td>
<td>VESA Mount</td>
<td>Stand</td>
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<td>Intel UHD 630</td>
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<td>i5-8500</td>
<td>vPro</td>
<td>Intel UHD 630</td>
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<td>256GB SSD M.2 PCIe NVMe Opal</td>
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<td>9560 ac, 2x2 + BT5.0</td>
<td>Integrated VGA + Serial</td>
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<td>135W</td>
<td>88% Adapter</td>
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## ThinkSmart Hub 500 Platform Specifications

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

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

For more detailed information, please see footnotes.
| Model   | Region | Processor | vPro | Graphics | Monitor Cable | Memory | Display | Multi-touch | Power Supply | Storage(HDD/SSD) | WLAN + Bluetooth | Keyboard / Mouse | Operating System | Warranty | End of Support | Ann Date (m/y) |
|---------|--------|-----------|------|----------|---------------|--------|---------|-------------|--------------|----------------|-----------------|-----------------|-----------------|----------------|-----------|----------------|----------------|
| 10V5000US | US     | i5-7500T  | vPro | Intel HD 630   | None          | 4GBx2  | 11.6" FHD (1920x1080) WVA Anti-glare, smudge resistant | 10-point Multi-touch | 90W 88% Adapter | 128GB SSD M.2 PCIe NVMe | 8265 ac, 2x2, vPro + BT4.1 | None / None       | Windows 10 IoT Enterprise | 3-year, Onsite       | May 28, 2024  | 02/18          |
## ThinkCentre Tiny-in-One (TIO) 22

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

| 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 |
| Panel | M900 Tiny, M700 Tiny, M600 Tiny, M93/p Tiny*, M83 Tiny, M73 Tiny*, or M53 Tiny, Chromebox |
| Footnotes | *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 

### Mechanical
- **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
- 1280x900 @ 60Hz
- 1280x1024 @ 60Hz, 72Hz, 75Hz
- 1366x768 @ 60Hz
- 1440x900 @ 60Hz, 75Hz
- 1600x1200 @ 60Hz, 72Hz, 75Hz
- 1680x1050 @ 60Hz
- 1920x1080 @ 60Hz

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

### On screen display
- **Control features**: On screen display with digital user controls (8 languages)
- **Preset resolutions**: 640x350 @ 70Hz
- **Viewing angle at 10:1 CR**: 178° (+/- 89°) horizontal, 178° (+/- 89°) vertical

### Security
- **Security keyhole for attachment of optional cable lock (Kensington Lock compatible)**, locks optional Tiny with TIO 22 together, more security features

### Mechanical
- **Dimensions**: TIO 22 without stand: W x D x H (inch) 19.25 x 2.65 x 12.47, TIO 22 with stand: W x D x H (inch) 19.25 x 9.90 x 14.02 - 18.35
- **Weight (approximately)**: 11.27 lb / 5.11 kg (with stand)

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

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

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

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

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

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

### Ergonomics
- **Ergonomics**: ISO 9241-307

### Emission standards
- **Emission standards**: FCC Class B

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

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

### 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, M73 Tiny, Chromebox</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn on TIO and</td>
<td>All models</td>
</tr>
<tr>
<td>Tiny together via</td>
<td>All models</td>
</tr>
<tr>
<td>Alt + P on USB KB</td>
<td>Not support</td>
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<tr>
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<td>All models</td>
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<tr>
<td>TIO Power Button</td>
<td>TIO models</td>
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<tr>
<td>Model</td>
<td>M900 Tiny, M700 Tiny, M600 Tiny, M93/p Tiny, M83 Tiny, M53 Tiny, M73 Tiny, Chromebox</td>
</tr>
<tr>
<td>Dimensions</td>
<td>TIO 22 without stand: W x D x H (inch) 19.25 x 2.65 x 12.47, TIO 22 with stand: W x D x H (inch) 19.25 x 9.90 x 14.02 - 18.35</td>
</tr>
<tr>
<td>Weight (approximately)</td>
<td>11.27 lb / 5.11 kg (with stand)</td>
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See footnotes for more detailed information © Lenovo (TIO22) April 2016
<table>
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<th>Model</th>
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<th>Color</th>
<th>Display Size</th>
<th>Resolution</th>
<th>Aspect Ratio</th>
<th>Pixel Pitch</th>
<th>Dot / Pixel Per Inch</th>
<th>Brightness</th>
<th>Contrast Ratio</th>
<th>Pixel Response Time</th>
<th>Color Gamut</th>
<th>View Angle (H / V)</th>
<th>Stand</th>
<th>Power Consumption (Typical / Maximum)</th>
<th>Power Supply</th>
<th>Warranty</th>
<th>Ann Date (mm/yy)</th>
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<tr>
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<td>Black</td>
<td>21.5&quot;</td>
<td>1920x1080</td>
<td>16:9</td>
<td>0.24795 mm</td>
<td>102.4 dpi</td>
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<td>1000:1</td>
<td>7 ms</td>
<td>72%</td>
<td>178 / 178</td>
<td>Adjustable Stand</td>
<td>15.57W / 35W</td>
<td>90W 88% Adapter</td>
<td>3-year</td>
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<td>21.5&quot;</td>
<td>1920x1080</td>
<td>16:9</td>
<td>0.24795 mm</td>
<td>102.4 dpi</td>
<td>250 nits</td>
<td>1000:1</td>
<td>7 ms</td>
<td>72%</td>
<td>178 / 178</td>
<td>Adjustable Stand</td>
<td>15.57W / 35W</td>
<td>90W 88% Adapter</td>
<td>3-year</td>
<td>04/16</td>
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</table>
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 / M600 / M715 / M93p / M83 / M73 / M53 / Chromebox Tiny

Non-TIO models can’t be turned on by pressing power button of TIO

Panel

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

Notes: In-Plane Switching may refer to VA, PLS, and IPS panels

Viewable image size:

21.5" (546.1mm) diagonal

Max view area (W x H):

18.74" x 10.54" / 476.1mm x 267.8mm

Bezel Width:

Top / Side: 2mm, Bottom: 22.1mm

Native resolution:

1920x1080

Multi-touch:

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

Aspect ratio:

16:9

Pixel pitch (mm):

0.24795mm

Dot/Pixel per Inch:

102.4 dpi

Brightness:

250 nits or cd/m² (typical)

Contrast ratio:

1000:1 (typical)

Pixel response time:

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

Color gamut:

72%

Anti-reflective:

Anti-glare

Viewing angle at 10:1 CR:

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

Preset resolutions:

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, 75Hz
1600x1200 @ 60Hz, 70Hz, 75Hz
1680x1050 @ 60Hz
1920x1080 @ 60Hz

Presets / user settings:

Presets: 25; user settings: 25

On screen display

On screen display with digital user controls (8 languages)

Control features:

Front: Exit button, Left / Mode-switching button (TIO / monitor mode), Right / Brightness button, Enter / Menu button, Power button

Bottom: Volume up button, Volume down button

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)

Camera:

720p camera with dual microphone for VOIP, LED indicator

3-in-1 Cable:

Undetachable 3-in-1 cable (Power connecter, USB [supports USB 3.1 Gen 1 / USB 2.0], DisplayPort), only for connecting to Tiny installed (optional)

Mechanical

Dimensions:

TIO without stand:

W x D x H (inch): 19.26 x 2.85 x 13.35

W x D x H (mm): 489.3 x 72.5 x 339

Weight (Approx.):

7.01 lb / 3.19 kg

TIO with stand:

W x D x H (inch): 19.26 x 10.76 x 14.59 - 18.93

W x D x H (mm): 489.3 x 273.3 x 370.7 - 480.7

Weight (Approx.):

11.77 lb / 5.34 kg

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)

Windows certifications:

Windows 7 and Windows 10 certified

Ergonomics:

ISO 9241-307, TUV Eye Comfort certified

Environmental:

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

Power consumption:

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

Power supply:

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

Mounting features:

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

Adjustable stand:

Tilt: 30° back, -5° forward;

swivel: +/-45°;

Pivot: clockwise 0° to 90°

EPEAT:

Gold rating, ULE Gold, TUV, VOC

ENERGY STAR:

Yes

VESA-compliant:

VESA DDC2B/Ci, VESA DPMS-compliant

Accessory:

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

VESA-compliant:

VESA DDC2B/Ci, VESA DPMS-compliant

Ergonomics:

ISO 9241-307, TUV Eye Comfort certified

Environmental:

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

Windows certifications:

Windows 7 and Windows 10 certified

Ship group:

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

ThinkCentre Tiny-in-One 22 Gen3 Compatible list

<table>
<thead>
<tr>
<th>Model</th>
<th>M910 / M710 / M900 / M700 / M600 / M715 / M83 / M53 Tiny</th>
<th>M93p Tiny, M73 Tiny</th>
<th>Chromebox</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn on TIO and Tiny together via Alt + P on USB KB</td>
<td>All models</td>
<td>All models</td>
<td>Not support</td>
</tr>
<tr>
<td>Turn on TIO and Tiny together via TIO Power Button</td>
<td>All models</td>
<td>TIO models</td>
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<td>Model</td>
<td>Product</td>
<td>Region</td>
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</tr>
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<tr>
<td>10R0PAR1US</td>
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<td>Product</td>
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### ThinkCentre Tiny-in-One (TIO) 24

<table>
<thead>
<tr>
<th>Model</th>
<th>10LLPAR6++ / 10LLPAT6++</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compatible Tiny</td>
<td>M900 Tiny, M700 Tiny, M600 Tiny, M93/p Tiny, M83 Tiny, M73 Tiny, Tiny-in-One, or M53 Tiny, Chromebox</td>
</tr>
<tr>
<td>Form factor</td>
<td>Tiny-in-One, offers a full All-In-One experience when optional Tiny slots into the back of TIO 24, clean cabling and effortless setup</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>23.8” (604.7mm) diagonal</td>
</tr>
<tr>
<td>Max view angle</td>
<td>21.06” x 12.32” / 535.0mm x 313.0mm</td>
</tr>
<tr>
<td>Bezel Width</td>
<td>Top: 2mm, Side: 2mm, Bottom: 16.3mm</td>
</tr>
<tr>
<td>Optimum resolution</td>
<td>1920x1080</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.2745mm</td>
</tr>
<tr>
<td>Brightness</td>
<td>250 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1000:1 (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>7ms</td>
</tr>
<tr>
<td>Anti-reflective</td>
<td></td>
</tr>
<tr>
<td>Viewing angle</td>
<td>178° (+/- 89°) horizontal, 178° (+/- 89°) vertical</td>
</tr>
<tr>
<td>Preset resolutions</td>
<td>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, 72Hz, 75Hz, 1680x1050 @ 60Hz, 1920x1080 @ 60Hz</td>
</tr>
<tr>
<td>Presets / user settings</td>
<td>Presets: 25, user settings: 25</td>
</tr>
<tr>
<td>On screen display</td>
<td>On screen display with digital user controls (8 languages)</td>
</tr>
<tr>
<td>Control features</td>
<td>Mode-switching (TIO mode / standalone monitor mode, switches video/audio / USB input sources) / Back button, Left shift button, Right shift button, Brightness button, Selection button / Menu button, Power button</td>
</tr>
<tr>
<td>Tiny-in-One Power On</td>
<td>Pressing Alt + P on keyboard or pressing Power button positioned on TIO can turn on both TIO and Tiny (only some Tiny support, see compatible list)</td>
</tr>
<tr>
<td>Front ports</td>
<td>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)</td>
</tr>
<tr>
<td>Side ports</td>
<td>Side ports offered by installed Tiny (optional)</td>
</tr>
<tr>
<td>Rear ports</td>
<td>One DisplayPort 1.2 port, one USB upstream port, one power connector</td>
</tr>
<tr>
<td>3-in-1 Cable</td>
<td>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)</td>
</tr>
<tr>
<td>Internal Speaker</td>
<td>1.5 watt x1</td>
</tr>
<tr>
<td>Security</td>
<td>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)</td>
</tr>
<tr>
<td>Mechanical</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>TIO 24 without stand</td>
</tr>
<tr>
<td>W x D x H (inch)</td>
<td>21.24 x 2.7 x 13.64</td>
</tr>
<tr>
<td>Weight (approximately)</td>
<td>12.25 lb / 5.57 kg (with stand)</td>
</tr>
</tbody>
</table>

#### ThinkCentre Tiny-in-One 24 Compatible list

<table>
<thead>
<tr>
<th>Model</th>
<th>M900 Tiny, M700 Tiny, M600 Tiny, M93/p Tiny, M83 Tiny, M73 Tiny, Tiny-in-One, or M53 Tiny, Chromebox</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn on TIO and Tiny together via Alt + P on USB KB</td>
<td>All models, All models, Not support</td>
</tr>
<tr>
<td>Turn on TIO and Tiny together via TIO Power Button</td>
<td>All models, TIO models, All models</td>
</tr>
</tbody>
</table>

See footnotes for more detailed information
<table>
<thead>
<tr>
<th>Model</th>
<th>Region</th>
<th>Color</th>
<th>Display Size</th>
<th>Resolution</th>
<th>Aspect Ratio</th>
<th>Pixel Pitch</th>
<th>Brightness</th>
<th>Contrast Ratio</th>
<th>Pixel Response Time</th>
<th>Color Gamut</th>
<th>View Angle (H / V)</th>
<th>Stand</th>
<th>Power Consumption (Typical / Maximum)</th>
<th>Power Supply</th>
<th>Warranty</th>
<th>Ann Date (mm/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10LLPAR6US</td>
<td>US</td>
<td>Black</td>
<td>23.8&quot;</td>
<td>1920x1080</td>
<td>16:9</td>
<td>250 nits</td>
<td>1000:1</td>
<td>7 ms</td>
<td>72%</td>
<td>178 / 178</td>
<td>Adjustable Stand</td>
<td>16.7W / 35W</td>
<td>90W 88% Adapter</td>
<td>3-year</td>
<td>05/16</td>
<td></td>
</tr>
<tr>
<td>10LPAT6US</td>
<td>US</td>
<td>Black</td>
<td>23.8&quot;</td>
<td>1920x1080</td>
<td>16:9</td>
<td>250 nits</td>
<td>1000:1</td>
<td>7 ms</td>
<td>72%</td>
<td>178 / 178</td>
<td>Adjustable Stand</td>
<td>16.7W / 35W</td>
<td>90W 88% Adapter</td>
<td>3-year</td>
<td>05/16</td>
<td></td>
</tr>
</tbody>
</table>
ThinkCentre Tiny-in-One (TIO) 24 Gen3

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

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

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

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

Viewable image size
23.8" (604.7mm) diagonal
Max view area (W x H)
21.06" x 12.32" / 535.0mm x 313.0mm
Bezel Width
Top / Side: 2mm, Bottom: 22.1mm
Native resolution
1920x1080 (16:9)
Multi-touch
Optional 10-point multi-touch, supports Wake on Touch
Aspect ratio
16:9
Pixel pitch (mm)
0.2745mm
Dot/Pixel per Inch
92.6 dpi
Brightness
to 250 nits or cd/m² (typical)
Contrast ratio
1000:1 (typical)
Pixel response time
14ms (default), over drive to 4ms, 6ms
Color gamut
72%
Anti-reflective
Anti-glare
Viewing angle at 10:1 CR
178° (+/- 89°) horizontal, 178° (+/- 89°) vertical

Presets / user settings
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
1600x1200 @ 60Hz, 70Hz, 75Hz
1680x1050 @ 60Hz
1920x1080 @ 60Hz

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

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

Side ports (TIO)
One USB 3.1 Gen1 / USB 2.0 (when M73 or M53 installed or USB 2.0 connected via USB upstream port)

Notes: The USB port is only available when a Tiny is installed or a PC is connected via USB upstream port

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

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

Undetachable 3-in-1 cable (Power connector, USB [supports USB 3.1 Gen1 / USB 2.0], DisplayPort), only for connecting to Tiny installed (optional)

Camera
1080p camera with dual microphone for VOIP, LED indicator

Internal Speaker
2 watt x2

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

Mechanical
Dimensions
TIO without stand | TIO with stand
W x D x H (inch) | 21.25 x 2.85 x 14.47 | 21.25 x 11.11 x 15.72 - 20.06
W x D x H (mm) | 539.8 x 72.5 x 367.6 | 539.8 x 282.3 x 399.4 - 509.4
Weight (Approx.) | 7.96 lb /3.61 kg | 12.92 lb /5.86 kg

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

Adjustable stand
Tilt:
+/-45°
Swivel:
+/-45°
Clockwise 0° to 90°

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

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

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

Ergonomics
FCC Class B

Emmission standards
TCO 7.0, TCO Edge 2.0, WEEE, RoHS, ENERGY STAR® 7.0.

Windows certifications
Windows 7 and Windows 10 certified

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

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

ThinkCentre Tiny-in-One 24 Gen3 Compatible list

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

Lenovo, July 2017
<table>
<thead>
<tr>
<th>Model</th>
<th>Product</th>
<th>Region</th>
<th>Color</th>
<th>Display Size</th>
<th>Multi-touch</th>
<th>Resolution</th>
<th>Aspect Ratio</th>
<th>Pixel Pitch</th>
<th>Dot / Pixel Per Inch</th>
<th>Brightness</th>
<th>Contrast Ratio</th>
<th>Pixel Response Time</th>
<th>Color Gamut</th>
<th>View Angle (H / V)</th>
<th>Stand</th>
<th>Power Consumption (Typical / Maximum)</th>
<th>Power Supply</th>
<th>Warranty</th>
<th>Ann Date (mm/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10QXPAR1US</td>
<td>ThinkCentre Tiny-in-One 24 Gen3</td>
<td>US</td>
<td>Black</td>
<td>23.8&quot;</td>
<td>10-point Multi-touch</td>
<td>1920x1080</td>
<td>16:9</td>
<td>0.2745  mm</td>
<td>92.6 dpi</td>
<td>250 nits</td>
<td>1000:1</td>
<td>4-14 ms</td>
<td>72%</td>
<td>178 / 178</td>
<td>Adjustable Stand</td>
<td>19W / 32W</td>
<td>90W</td>
<td>3-year</td>
<td>07/17</td>
</tr>
<tr>
<td>10QXPAT1US</td>
<td>ThinkCentre Tiny-in-One 24 Gen3</td>
<td>US</td>
<td>Black</td>
<td>23.8&quot;</td>
<td>10-point Multi-touch</td>
<td>1920x1080</td>
<td>16:9</td>
<td>0.2745  mm</td>
<td>92.6 dpi</td>
<td>250 nits</td>
<td>1000:1</td>
<td>4-14 ms</td>
<td>72%</td>
<td>178 / 178</td>
<td>Adjustable Stand</td>
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<td>90W</td>
<td>3-year</td>
<td>07/17</td>
</tr>
<tr>
<td>Model</td>
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<td>Resolution</td>
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<td>Brightness</td>
<td>Contrast Ratio</td>
<td>Pixel Response Time</td>
<td>Color Gamut</td>
<td>View Angle (H / V)</td>
<td>Stand</td>
<td>Power Consumption (Typical / Maximum)</td>
<td>Power Supply</td>
<td>Warranty</td>
<td>Ann Date (mm/yy)</td>
<td></td>
</tr>
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<td></td>
</tr>
<tr>
<td>10QYPAR1US</td>
<td>ThinkCentre Tiny-in-One 24 Gen3</td>
<td>US</td>
<td>Black</td>
<td>23.8&quot;</td>
<td>None</td>
<td>1920x1080</td>
<td>16:9</td>
<td>0.2745 mm</td>
<td>92.6 dpi</td>
<td>250 nits</td>
<td>1000:1</td>
<td>4-14 ms</td>
<td>72%</td>
<td>178 / 178</td>
<td>Adjustable Stand</td>
<td>19W / 32W</td>
<td>90W</td>
<td>3-year</td>
<td>07/17</td>
</tr>
<tr>
<td>10QYPAT1US</td>
<td>ThinkCentre Tiny-in-One 24 Gen3</td>
<td>US</td>
<td>Black</td>
<td>23.8&quot;</td>
<td>None</td>
<td>1920x1080</td>
<td>16:9</td>
<td>0.2745 mm</td>
<td>92.6 dpi</td>
<td>250 nits</td>
<td>1000:1</td>
<td>4-14 ms</td>
<td>72%</td>
<td>178 / 178</td>
<td>Adjustable Stand</td>
<td>19W / 32W</td>
<td>90W</td>
<td>3-year</td>
<td>07/17</td>
</tr>
</tbody>
</table>
**ThinkCentre Tiny-in-One (TIO) 27**

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

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

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

**Viewable image size**
27" (685.8mm) diagonal

**Max view area (W x H)**
23.49" x 13.22" / 596.7mm x 335.7mm

**Bezel Width**
Top / Side: 2mm; Bottom: 23.3mm

**Native resolution**
2560x1440

**Internal Speaker**
2 watt x2

**Rear ports**
One DisplayPort(in) port, one HDMI(in) port, one USB (Type-B) upstream port, one power connector

**Side ports**
Undetachable 3-in-1 cable, connecting to the power connector, one USB, and one DisplayPort of the installed Tiny (optional)

**Camera**
RGBIR camera with dual microphone, supports Window Hello and Facial Recognition, Think Shutter for Privacy Security, LED indicator

**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)

---

### Preset resolutions

- 640x350 @ 70Hz
- 640x480 @ 60Hz, 66Hz, 72Hz, 75Hz
- 720x400 @ 70Hz
- 800x600 @ 60Hz, 72Hz, 75Hz
- 1024x768 @ 60Hz, 70Hz, 75Hz
- 1152x864 @ 75Hz
- 1280x768 @ 60Hz
- 1280x800 @ 60Hz
- 1280x1024 @ 60Hz, 72Hz, 75Hz
- 1366x768 @ 60Hz
- 1440x900 @ 60Hz, 75Hz
- 1600x1200 @ 60Hz, 70Hz, 75Hz
- 1680x1050 @ 60Hz
- 1920x1080 @ 60Hz
- 2560x1440 @ 60Hz

**Presets / user settings**

- Presets: 27; user settings: 25

---

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

**Control features**
- Exit button, Left / Mode-switching button (TIO / monitor mode), Right / Brightness button, Enter / Menu button, Power button
- Volume up button, Volume down button

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

**Side ports (TIO)**
Two USB 3.1 Gen1 (downgrade to USB 2.0 when installing M73 or M53 or connecting USB 2.0 via USB upstream port), one headphone / microphone combo jack

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

**Rear ports**
One DisplayPort(in) port, one HDMI(in) port, one USB (Type-B) upstream port, one power connector

**3-in-1 Cable**
Undetachable 3-in-1 cable, connecting to the power connector, one USB, and one DisplayPort of the installed Tiny (optional)

**Camera**
RGBIR camera with dual microphone, supports Window Hello and Facial Recognition, Think Shutter for Privacy Security, LED indicator

**Internal Speaker**
2 watt x2

---

### Mechanical

<table>
<thead>
<tr>
<th>Feature</th>
<th>TIO without stand</th>
<th>TIO with stand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (W x D x H mm / inch)</td>
<td>614.0 x 329.0 x 444.25 / 24.17&quot; x 12.95&quot; x 17.49</td>
<td>614.0 x 329.0 x 444.25 / 24.17&quot; x 12.95&quot; x 17.49</td>
</tr>
<tr>
<td>Weight (Approx.)</td>
<td>4.91 kg / 10.82 lb</td>
<td>7.95 kg / 17.53 lb</td>
</tr>
</tbody>
</table>

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

**Adjustable stand**
- Tilt: 33° back, -5° 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, TÜV 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](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>M93/p Tiny</td>
<td>Chromebox</td>
</tr>
</tbody>
</table>

**Turn on TIO and Tiny together**
- All models

**Turn on TIO and Tiny together via Alt + P on USB KB**
- All models

---

Lenovo, Feb 2019
<table>
<thead>
<tr>
<th>Model</th>
<th>Product</th>
<th>Region</th>
<th>Color</th>
<th>Display Size</th>
<th>Multi-touch</th>
<th>Resolution</th>
<th>Aspect Ratio</th>
<th>Pixel Pitch</th>
<th>Brightness</th>
<th>Contrast Ratio</th>
<th>Pixel Response Time</th>
<th>Color Gamut</th>
<th>View Angle (H / V)</th>
<th>Stand</th>
<th>Power Consumption (Typical / Maximum)</th>
<th>Power Supply</th>
<th>Warranty</th>
<th>Ann Date (mm/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10YFRAR1US</td>
<td>ThinkCentre Tiny-in-One 27</td>
<td>US</td>
<td>Black</td>
<td>27”</td>
<td>None</td>
<td>2560x1440</td>
<td>16.9</td>
<td>0.2331 mm</td>
<td>109 dpi</td>
<td>350 nits</td>
<td>1000:1</td>
<td>4 - 14 ms</td>
<td>99% sRGB</td>
<td>178 / 178</td>
<td>Adjustable Stand</td>
<td>37W / 57W</td>
<td>170W Adapter</td>
<td>3-year</td>
</tr>
</tbody>
</table>
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**Carry-in or Mail-in Service:** Parts and labor repair coverage where the customer is responsible for shipping (including packaging) or delivery to authorized warranty provider or repair center.

**Depot or Courier Service:** Parts and labor repair coverage where shipping (including packaging) or delivery to the repair center is paid for by Lenovo.

**Expedited Depot:** Parts and labor coverage with expedited turnaround. Shipping (including packaging) or delivery to the repair center is paid for by Lenovo.

**Onsite / In-home Service:** Parts and labor repair coverage where labor is provided onsite at your place of business.

If Lenovo determines your product problem is covered by the product warranty and cannot be resolved over the telephone, a technician will be dispatched to arrive onsite, typically the next day.


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