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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► Withdrawn product(s)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

### Processor

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<th># of Threads</th>
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<th>Burst Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor</th>
<th>Graphics</th>
</tr>
</thead>
<tbody>
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<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>
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<tr>
<td>i5-7Y54</td>
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<td>4</td>
<td>1.2 GHz</td>
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<td>DDR4-2400</td>
<td>Intel UHD Graphics 600</td>
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</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>
<td></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 system board, 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)

### Storage

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

### Optical

None

### Ethernet

RealtekRTL8111GUS 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

### Max battery life

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-Std test

MIL-STD-810G military certification

### ENVIRONMENT

EPEAT Silver; ENERGY STAR 6.1; RoHS-compliant

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Lenovo
April 2019
ThinkPad A275 Platform Specifications

Processor AMD PRO A-Series APUs

<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>PRO A10-8730B</td>
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<td>2.4 GHz</td>
<td>3.3 GHz</td>
<td>2MB</td>
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<td>PRO A12-8830B</td>
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<td></td>
<td></td>
<td>AMD Radeon R7 Graphics</td>
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<td>2.5 GHz</td>
<td>3.4 GHz</td>
<td>2MB</td>
<td>DDR4-1866</td>
<td>AMD Radeon R5 Graphics</td>
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<tr>
<td>PRO A12-9800B</td>
<td>2</td>
<td>4</td>
<td>2.7 GHz</td>
<td>3.6 GHz</td>
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<td>AMD Radeon R7 Graphics</td>
</tr>
</tbody>
</table>

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 16GB max / 1866MHz DDR4, one DDR4 SO-DIMM socket

Display Some: 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) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle
On-cell touch, supports 10-finger gesture (FHD only, US only)

Multi-touch (opt) None

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

Storage System has one HDD slot or one M.2 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. xxxGB SSD)
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s

Ethernet Realtek® RTL8111EPV Gigabit Ethernet connection

WLAN Realtek RTL8822BE, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card

Bluetooth™ 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, it means the model is NOT WWAN upgradable

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

Dimensions

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
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<tbody>
<tr>
<td>3-cell + 3-cell</td>
<td>2.86 lb / 1.36 kg</td>
</tr>
<tr>
<td>3 + 6-cell</td>
<td>3.33 lb / 1.52 kg</td>
</tr>
</tbody>
</table>

Weight 2.79 lb / 1.27 kg

Case color Black

Case material Glass-Fiber Reinforced Plastic

Camera (optional) HD720p resolution, fixed focus

Audio support HD Audio, Realtek ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack

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

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

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

Internal battery Optional: Integrated Li-ion or Li-Polymer 3-cell (23Wh)

External battery Li-ion 3-cell (23Wh) or 6-cell (48Wh)

Max battery life (MobileMark® 2014) 5.05 hr

AC adapter

- Windows® 7 Professional 64 preinstalled
- Lenovo Companion software
- Lenovo System Update
- ThinkVantage Product Recovery
- Lenovo PowerEngage
- Lenovo Solution Center
- ThinkVantage System Update
- Adobe® Reader
- Microsoft® Office preloaded:
  - purchase a product key to activate
  - McAfee® LiveSafe™

Preload Some: Windows 10 Home
Some: Windows 10 Pro

Limited warranty

- Lenovo Companion
- Lenovo Setting
- Microsoft Office preloaded:
  - purchase a product key to activate
- McAfee® LiveSafe™

Environment MIL-STD-810G military certification

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 A285 Platform Specifications

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

<table>
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<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>2</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>
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<tr>
<td>Ryzen 5 PRO 2500U</td>
<td>8</td>
<td>4</td>
<td>2.0 GHz</td>
<td>3.6 GHz</td>
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<td></td>
<td>Radeon Vega 8 Graphics</td>
</tr>
<tr>
<td>Ryzen 7 PRO 2700U</td>
<td>8</td>
<td>4</td>
<td>2.2 GHz</td>
<td>3.8 GHz</td>
<td></td>
<td></td>
<td>Radeon Vega 10 Graphics</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;

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

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

### 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 (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 Bluetooth™ Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.2, M.2 card

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

### WWAN (optional) Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7390 (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, in the combo slot with microSD card reader, optional Verizon LTE (US) SIM card

### Dimensions

- **WxDxH** (HD & FHD multi-touch):
  - 12.11" x 8.26" x 0.69"; 307.7mm x 209.8mm x 17.4mm
- **WxDxH** (FHD non-touch):
  - 12.11" x 8.26" x 0.70"; 307.7mm x 209.8mm x 17.8mm

### Weight

- **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

### Case color

- **BDL**: Black

### Case material

- **Display cover**: Carbon Fiber (FHD non-touch model) or PPS (HD & FHD multi-touch model)
- **Bottom**: Magnesium/Aluminum

### Smart card reader

Optional: Smart card reader

### 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

- **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

### Bundled Accy

- **Bundled Accy (optional)**: ThinkPad Ethernet Extension Adapter Gen 2

### Camera (optional)

One of the following, configurable by model:

- HD720p camera with ThinkShutter camera privacy, fixed focus
- HD Audio, Realtek ALC3267 codec; stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo jack

### Audio support

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

### Keyboard

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

### Security

- Security chip: Power-on password, hard disk password, supervisor password, security keyhole
- Fingerprint reader: None
- Security keyhole: Discrete TPM 2.0, TCG Certified

### Security style match on chip fingerprint reader

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

### Power adapter

- **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**: MobileMark® 2014: 10.55 hr
  - * 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-year battery depot repair service
- 3-year/1-year battery limited onsite service

### Additional features

- **Smart card reader**: Optional: Smart card reader
- **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 (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
- **Bundled Accy (optional)**: ThinkPad Ethernet Extension Adapter Gen 2
- **Camera (optional)**: One of the following, configurable by model:
  - HD720p camera with ThinkShutter camera privacy, fixed focus
  - HD Audio, Realtek ALC3267 codec; stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo jack
- **Keyboard UltraNav™**: 6-row, spill-resistant, multimedia Fn keys, optional LED backlight
- **Security chip**: Power-on password, hard disk password, supervisor password, security keyhole
- **Fingerprint reader**: None
- **Power adapter**: Integrated Li-ion 48Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter
- **Max battery life**: MobileMark® 2014: 10.55 hr
  - * 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-year battery depot repair service
  - 3-year/1-year battery limited onsite service
- **Additional features**: None
- **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**: MobileMark® 2014: 10.55 hr
  - * 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-year battery depot repair service
  - 3-year/1-year battery limited onsite service
- **Additional features**: None

### Environment

- **Temperature**: 5°C to 35°C (41°F to 95°F)
- **Humidity**: 20% to 80% non-condensing
- **Altitude**: 10,000 feet (3,048 meters)

### Specifications Reference (PSREF)

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

April 2019
### ThinkPad A475 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>
<th>R5 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>
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<td>DDR4-1866</td>
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<tr>
<td>PRO A12-8830B</td>
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<td>Radeon R7</td>
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<tr>
<td>PRO A10-9700B</td>
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<td></td>
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<tr>
<td>PRO A12-9800B</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

#### 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

- **Optical:**
  - 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. x33GB SSD)
- Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s

#### 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)

- Integrated Mobile Broadband 4GE LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455)

#### SIM card (optional)

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

#### Dimensions

- **Weight:**
  - Models 3-cell or 3 + 3-cell
  - Models 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 / 1.85 kg

#### Case material

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

### Additional Specifications

- **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 ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack
- **Keyboard:**
  - 6-row, spill-resistant, multimedia Fn keys, optional LED backlight
- **Security:**
  - Power-on password, hard disk password, supervisor password, security keyhole
- **Internal battery:**
  - Optional: Integrated Li-Polymer 3-cell (24Wh)
- **Battery life:**
  - Models 3-cell
    - 5.13 hr
  - Models 6-cell or 3 + 6-cell
    - 10.26 hr
  - Max battery life
    - 15.4 hr
  - * Battery life varies significantly with settings, usage, & other factors

#### Optional:

- Microsoft® Office preloaded; Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
- Lenovo Setting
- ThinkVantage Product Recovery
- Lenovo Solution Center
- McAfee
- Adobe Reader®, 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
  - 5-year/1-year battery limited onsite service

### Additional Features

- **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>Processor</th>
<th>AMD Ryzen (^{\text{TM}}) PRO Mobile Processors with Radeon (^{\text{TM}}) Vega Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Processor</strong></td>
<td><strong>Number</strong></td>
</tr>
<tr>
<td>Ryzen 3 PRO 2300U</td>
<td>4</td>
</tr>
<tr>
<td>Ryzen 5 PRO 2500U</td>
<td>8</td>
</tr>
<tr>
<td>Ryzen 7 PRO 2700U</td>
<td>8</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: 5120x2880 @ 60Hz (USB Type-C); 4096x2160 @ 60Hz (HDMI)

**Chipset Memory**
AMD SoC (System on Chip) platform
32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets
* Installed DIMMs are actually 2666MHz but run at 2400MHz due to AMD limitation

**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, 700:1 contrast ratio, 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:** SATA 6.0Gb/s, 2.5” wide, 7mm high, Active Protection System\(^{\text{TM}}\)
- **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**
Realtek\(^{\text{TM}}\) RTL8111GUL Gigabit Ethernet connection

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

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

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

**Dimensions**
- **Weight:** 13.25” x 9.15” x 0.79”; 336.6mm x 232.5mm x 19.95mm
- **Magnesium:** 3.49 lb / 1.58 kg
- **PPS:** 3.63 lb / 1.65 kg

**Case color**
Black

**Case material**
Display cover: Magnesium Hybrid or PPS;
Bottom: Glass-Fiber Reinforced Plastic

**Battery**
Integrated Li-ion 24Wh battery and external Li-ion 24Wh, 48Wh, or 72Wh battery
Max battery life (MobileMark\(^{\text{TM}}\) 2014)
- **Models:** 24Wh, 48Wh, 72Wh, 24Wh + 24Wh, 24Wh + 48Wh, 24Wh + 72Wh
- **Max battery life:** 3.57 hr, 10.76 hr, 16.4 hr, 10.76 hr, 16.4 hr, 22.15 hr

**AC adapter**
- **45W or 65W USB Type-C AC adapter**
- **Lenovo USB-C to DisplayPort Adapter**
- **Lenovo USB-C to HDMI Adapter**

**Preload**
Windows\(^{\text{TM}}\) 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

**Environment**
- **EPEAT Gold (US only):** ENERGY STAR \(^{\text{TM}}\) 6.1, RoHS-compliant

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

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## ThinkPad E480 Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<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 Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i3-7200U</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>2.3 GHz</td>
<td>3.1 GHz</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>i3-7310U</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>2.6 GHz</td>
<td>3.0 GHz</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>i5-7200U</td>
<td>4</td>
<td>4</td>
<td>8</td>
<td>1.8 GHz</td>
<td>3.4 GHz</td>
<td>6MB</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 dual independent display
- Max resolution: 1920x1080 (HDMI) @60Hz

### 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

### 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

### Storage

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

### UltrNav

- 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
- 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)
- MobileMark® 2014: 13.51 hr

### AC adapter

- 45W or 65W USB Type-C AC adapter
- Supplies power to computer and supports charging of USB Type-C connections

### Software

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

### Environment

- MIL-STD-810G military certification
- EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

### Weight

- Starting at 3.87 lb / 1.75kg

### Dimensions

- Weight: 329mm x 242mm x 19.9mm
- PC/ABS (WxDxH): 12.96" x 9.53" x 0.78"; 329mm x 242mm x 19.9mm

### Processor Specifications

<table>
<thead>
<tr>
<th>Number</th>
<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>i5-8250U</td>
<td>4</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>4.0 GHz</td>
<td>6MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>i7-8550U</td>
<td>4</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>
</tbody>
</table>

### 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)
- MobileMark® 2014: 13.51 hr

### AC adapter

- 45W or 65W USB Type-C AC adapter
- Supplies power to computer and supports charging of USB Type-C connections

### Software

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

### Environment

- MIL-STD-810G military certification
- EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

Note: The specifications above may not be available in all regions.
### ThinkPad E485 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 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>4</td>
<td>8</td>
<td>2.2 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: 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)

#### Optical

- **Some:** M.2 SSD / PCIe NVMe
- None

#### 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: Starting at 3.87 lb / 1.75kg

#### 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

#### 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

#### Security

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

#### Security chip

- Discrete TPM 2.0, TCG Certified

#### 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

#### Max battery life

- MobileMark® 2014: 9.37 hr
- * Battery life varies significantly with settings, usage, & other factors

#### 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

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

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### 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>i3-8145U</td>
<td>2</td>
<td>4</td>
<td>2.1 GHz</td>
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<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>
<td>DDR4-2400</td>
<td></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></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
- 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

<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>

### 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

- 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

### Power

- 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

### Security

- Security chip: Integrated model: discrete TPM 2.0, TCG Certified
- System Mgt: Discrete model: firmware TPM 2.0 integrated in chipset
- Security keyhole: None
- Security keyhole: Optional: Touch style fingerprint reader on the palm rest
- Security keyhole: NFC: None
- Security keyhole: Battery: Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

### Preload

- Windows® 10 Home 64 or Windows 10 Pro 64

### Limited warranty

- 1-year depot repair service

### Certification

- 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>1.8 GHz</td>
<td>4.5 GHz</td>
<td>8MB</td>
<td>Intel UHD Graphics 620</td>
<td></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: 4096x3204@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
<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&quot; FHD (1920x1080)</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&quot; 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
- 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 Type-C (with the 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, 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
- 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

#### Battery
- Integrated Li-ion 42Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter
- MobileMark® 2014: 11.5 hr
  - * Battery life varies significantly with settings, usage, & other factors

#### 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.
### Processor Specifications

<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>4</td>
<td>8</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 Specifications

- 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 and Memory Specifications

- AMD SoC (System on Chip) platform
- 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 Specifications

<table>
<thead>
<tr>
<th>Size / Resolution</th>
<th>Surface</th>
<th>Type</th>
<th>Brightness</th>
<th>Aspect Ratio</th>
<th>Viewing Angle</th>
<th>Multi-touch</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.0&quot; HD (1366x768)</td>
<td>Anti-glare</td>
<td>TN</td>
<td>220 nits</td>
<td>16:9</td>
<td>400:1</td>
<td>90°</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>
</tr>
</tbody>
</table>

### Storage Specifications

- 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 Drive

- None

### Ethernet Specifications

- 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

### Preload (optional)

- Windows® 10 Home 64 or Windows 10 Pro 64

### Limited warranty

- 1-year depot repair service

### Battery Specifications

- Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
  - with 65W USB Type-C AC adapter
  - MobileMark® 2014: 11 hr
  - *Battery life varies significantly with settings, usage, & other factors*

### AC adapter

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

### Load (optional)

- Windows® 10 Home 64 or Windows 10 Pro 64

### Limited warranty

- 1-year depot repair service

### Security Chip

- Fingerprint reader
- None
- Security chip
- Power-on password, hard disk password, supervisor password, security keyhole

### Security

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

### Security

- Security chip
- Discrete TPM 2.0, TCG Certified

### Fingerprint Reader

- None

### NFC

- None

### Environment

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

---

**Note:** The specifications above may not be available in all regions.
ThinkPad E580 Platform Specifications

Processor
7th Generation Intel® Core™ i3 / i5 Processor or

<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>3-7020U</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>3-7130U</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>5-7200U</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>
</tr>
</tbody>
</table>

*3-7130U is NOT available in US and EMEA

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>3-8130U</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>5-8250U</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>3.4 GHz</td>
<td>8MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>7-8550U</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>4.0 GHz</td>
<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 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

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

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

Dimensions
WxDxH: 14.53" x 9.92" x 0.78"; 369mm x 252mm x 19.95mm

Weight
Starting at 4.7 lb / 2.1kg

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

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

Camera
HD720p camera, fixed focus

Audio support
HD Audio, Conexant® CX11852 codec / Advanced Audio / 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
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.

Lenovo
April 2019
## ThinkPad E585 Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Number</th>
<th>Cores</th>
<th>Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Controller</th>
<th>Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ryzen 3</td>
<td>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</td>
</tr>
<tr>
<td>Ryzen 5</td>
<td>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</td>
</tr>
<tr>
<td>Ryzen 7</td>
<td>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>DDR4-2400</td>
<td>Radeon RX Vega 10</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

- 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio (NOT available in EMEA)
- 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: 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

### Camera

- HD720p camera, fixed focus

### Audio support

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

### Security

- Security chip: None
- Security keyhole: None
- Security key: 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: 8.63 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: None
- Environment: EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

### 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 material

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

### Note

The specifications above may not be available in all regions.

---

*Depending on many factors, actual data transfer speed may be lower than theoretical speed.*
## ThinkPad E590 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>i3-8145U</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>
</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>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>
</tbody>
</table>

### Graphics

- Intel UHD Graphics 620 in processor only or 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

<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>15.6&quot; HD (1366x768)</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>15.6&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>

### Multi-touch

None

### Storage

- Up to two drives (one 2.5 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™

- 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: 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

### Chipset

Intel UHD Graphics 620 in processor only or 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)

### Media reader

MicroSD card reader

### Monitor cable

Bundled Accy

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

### Keyboard

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

### Security

- Power-on password, hard disk password, supervisor password, security keyhole
- Integrated model: discrete TPM 2.0, TCG Certified
- Discrete model: firmware TPM 2.0 integrated in chipset
- System Mgt
- Fingerprint reader
- Optional: Touch style fingerprint reader on the palm rest
- NFC

### Battery

- Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- 45W or 65W USB Type-C AC adapter
- MobileMark® 2014: 11 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.*

Lenovo

May 2019
### ThinkPad E595 Platform Specifications

**Processor**

<table>
<thead>
<tr>
<th>Processor</th>
<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 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>
<td></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>
<td></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>
<td></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 & Memory**

- AMD SoC (System on Chip) platform
- 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° Non-touch
- 15.6" FHD (1920x1080) Anti-glare IPS 250 nits 16:9 600:1 170° Non-touch

**Multi-touch**

- 6-row, spill-resistant, multimedia Fn keys
- TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad
- Power-on password, hard disk password, supervisor password, security keyhole
- Discrete TPM 2.0, TCG Certified

**Storage**

- Up to two drives (one M.2 SSD and one HDD)
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 2 or PCIe 3.0 x 4
- 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: 10.3 hr
- AC adapter: 45W or 65W USB Type-C AC adapter

**WLAN + Bluetooth™**

- WiFi: 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

**Battery**

- Intel® Rapid Start Technology
- LED indicator

**Dimensions**

- WXxHxD: 14.53" x 9.92" x 0.78"; 369mm x 252mm x 19.9mm
- Weight: Starting at 4.7 lb / 2.1kg

**Chipset**

- AMD 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° Non-touch
- 15.6" FHD (1920x1080) Anti-glare IPS 250 nits 16:9 600:1 170° Non-touch

**Multi-touch**

- 6-row, spill-resistant, multimedia Fn keys
- TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad
- Power-on password, hard disk password, supervisor password, security keyhole
- Discrete TPM 2.0, TCG Certified

**Storage**

- Up to two drives (one M.2 SSD and one HDD)
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 2 or PCIe 3.0 x 4
- 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: 10.3 hr
- AC adapter: 45W or 65W USB Type-C AC adapter

**WLAN + Bluetooth™**

- WiFi: 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

**Battery**

- Intel® Rapid Start Technology
- LED indicator

**Dimensions**

- WXxHxD: 14.53" x 9.92" x 0.78"; 369mm x 252mm x 19.9mm
- Weight: Starting at 4.7 lb / 2.1kg

**Chipset**

- AMD 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° Non-touch
- 15.6" FHD (1920x1080) Anti-glare IPS 250 nits 16:9 600:1 170° Non-touch

**Multi-touch**

- 6-row, spill-resistant, multimedia Fn keys
- TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad
- Power-on password, hard disk password, supervisor password, security keyhole
- Discrete TPM 2.0, TCG Certified
## ThinkPad L380 Platform Specifications

<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Celeron® Processor, 7th Generation Intel Core™ i3 / i5 Processor or Processor Number</th>
<th>Weight</th>
<th>Case color</th>
<th>Case material</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3965U</td>
<td></td>
<td>Black / Silver</td>
<td>Aluminum Bottom: GFRP</td>
</tr>
<tr>
<td></td>
<td>3-7130U</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5-7200U</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8th Generation Intel Core i5 / i7 Processor</td>
<td>3-8130U</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5-8250U</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>5-8350U</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>7-8550U</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graphics</td>
<td>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)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chipset Memory</td>
<td>Intel SoC (System on Chip) platform 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display</td>
<td>Some: 13.3” (338mm) HD (1366x768), anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 500:1 contrast ratio</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Some: 13.3” (338mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Some: 13.3” (338mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 800:1 contrast ratio, 170° viewing angle, on-cell touch</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-touch (opt)</td>
<td>on-cell touch, supports 10-finger gesture</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage</td>
<td>One of the following, configurable by model:  • M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32GB/s (e.g. xxxGB SSD M.2 PCIe NVMe)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optane™ memory</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optical</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethernet</td>
<td>Native Intel Ethernet Connection (Non-vPro) or I219-LM (vPro) via optional ThinkPad Ethernet Extension Cable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WLAN + Bluetooth™</td>
<td>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</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WWAN</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SIM card</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: The specifications above may not be available in all regions.
## ThinkPad L390 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>i3-8154U</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>
</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>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>6MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>i7-8565U</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>4.6 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;
- 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
- *Installed memory is actually 2666MHz but run at 2400MHz due to Intel limitation*

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

### Display

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>Surface Type</th>
<th>Brightness</th>
<th>Aspect Ratio</th>
<th>Contrast Ratio</th>
<th>Viewing Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.3&quot; HD</td>
<td>1366x768</td>
<td>Anti-glare</td>
<td>250 nits</td>
<td>16:9</td>
<td>500:1</td>
<td>90°</td>
</tr>
<tr>
<td>13.3&quot; FHD</td>
<td>1920x1080</td>
<td>Anti-glare</td>
<td>250 nits</td>
<td>16:9</td>
<td>700:1 (non-touch) 800:1 (multi-touch)</td>
<td>170°</td>
</tr>
</tbody>
</table>

### 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

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

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

### 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: 14.61 hr

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

### 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

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

### Lenovo
- May 2019

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**Note:** The specifications above may not be available in all regions.
ThinkPad L470 Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>Processor or 7th Generation Intel Core™ i3 / i5 / i7 Processor</th>
<th>Desktop or Laptop</th>
<th>Socket</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel Core™ i3-7100U</td>
<td>Desktop</td>
<td>LGA 1466</td>
<td>2.4 GHz</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>Intel Core™ i3-7500U</td>
<td>Laptop</td>
<td>LGA 1466</td>
<td>2.5 GHz</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>Intel Core™ i7-7700U</td>
<td>Laptop</td>
<td>LGA 1466</td>
<td>2.7 GHz</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>Intel Core™ i7-7600U</td>
<td>Desktop Laptop</td>
<td>LGA 1466</td>
<td>2.8 GHz</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
</tbody>
</table>

### 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

### 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, 700:1 contrast ratio, 170° viewing angle

### Optical

- None

### Ethernet

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

### Limitations

- i7 Processor is NOT available in EMEA
- Intel HD Graphics 620 in processor or Intel HD Graphics 610 in processor only, or Intel HD Graphics 620 in processor and AMD Radeon™ R5 M430, 2GB memory; supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays;
- Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)

### WWAN

**Optional:** Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455), M.2 card

### Graphics

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

### Bluetooth

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

### AC adapter

- 45W or 65W slim tip AC adapter

### Battery

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

### Optical Drive

- None

### Media reader

- M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s
- 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)
  - 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

### Military Standard Test

- MIL-STD-810G military certification

### 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

---

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

<table>
<thead>
<tr>
<th>Number</th>
<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>3-7130U</td>
<td>i3 / i5</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>5-7200U</td>
<td></td>
<td>2</td>
<td>4</td>
<td>2.5 GHz</td>
<td>3.1 GHz</td>
<td>3MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>5-7300U</td>
<td></td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>3.4 GHz</td>
<td>6MB</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* (3-7130U is NOT available in US and EMEA)

### Graphics Specifications

- Intel HD Graphics 620 or Intel UHD Graphics 620 in processor only or Intel HD 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 Memory Specifications

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

### Display Specifications

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

### Multi-touch (optional)

- 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. 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 Specifications

- None

### Ethernet Specifications

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

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

### Weight

- **Weight:** Starting at 3.71 lb / 1.68 kg

### Case color

- Black

### Case material

- PC/ABS plastic

### Battery life

- **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 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

### Environment

- **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.
ThinkPad L570 Platform Specifications

Processor 6th Generation Intel® Core™ i3 / i5 / i7 Processor or
Processor Number # of Cores # of Threads Base Frequency Max Turbo Frequency Cache Memory Types Processor Graphics
3-6006U 2 4 2.0 GHz - 3MB DDR4-2133 Intel HD Graphics 520
3-6100U 2 4 2.3 GHz - 3MB
5-6200U 2 4 2.3 GHz 2.8 GHz 3MB
5-6300U 2 4 2.4 GHz 3.0 GHz 3MB
7-6500U 4 4 2.5 GHz 3.1 GHz 4MB
7-6600U 4 4 2.6 GHz 3.4 GHz 4MB

Intel Celeron® Processor or 7th Generation Intel Core i3 / i5 / i7 Processor
Processor Number # of Cores # of Threads Base Frequency Max Turbo Frequency Cache Memory Types Processor Graphics
Cel 3965U 2 2 2.2 GHz - 2MB DDR4-2133 Intel HD Graphics 610
3-7100U 2 4 2.4 GHz - 3MB
5-7200U 2 4 2.5 GHz 3.1 GHz 3MB
5-7300U 2 4 2.6 GHz 3.5 GHz 3MB
7-7500U 4 4 2.7 GHz 3.5 GHz 4MB
7-7600U 4 4 2.8 GHz 3.9 GHz 4MB

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

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 1.08-1.21"; 377mm x 255mm x 27.6-30.85mm
Weight Starting at 5.25 lb / 2.38 kg
Case color None
Case material None

Graphics Intel HD Graphics 520, 610, or 620 in processor only; supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)

Chipset Intel SoC (System on Chip) platform
Memory 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, 350:1 contrast ratio
Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio
Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio, 160° viewing angle

Multi-touch None

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

Bluetooth™

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

Fingerprint reader Optional: Swipe style fingerprint reader on the palm rest

Battery Li-ion 6-cell (48Wh)

AC adapter 45W slim tip AC adapter

Preload Windows 7 Professional 64 preinstalled
Some: Windows 10 Home 64
Lenovo Companion
Some: Windows 10 Pro 64
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

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
ThinkPad L580 Platform Specifications

<table>
<thead>
<tr>
<th>Processor</th>
<th>WWAN (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel® Celeron® Processor, 7th Generation Intel Core™ i3 / i5 Processor or 8th Generation Intel Core i3 / i5 / i7 Processor</td>
<td>One of the following, configurable by model:</td>
</tr>
<tr>
<td>Processor Number</td>
<td># of Cores</td>
</tr>
<tr>
<td>-------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Cel 3965U</td>
<td>2</td>
</tr>
<tr>
<td>3/7130U</td>
<td>2</td>
</tr>
<tr>
<td>3/7200U</td>
<td>2</td>
</tr>
<tr>
<td>3/7300U</td>
<td>2</td>
</tr>
</tbody>
</table>

**Graphics**
- Intel HD Graphics 610, 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 Memory**
- 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
- 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 6.0GB/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: 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 BT 4.2 but is limited to BT 4.1 by Windows OS

**Processors**
- Intel® Celeron® Processor, 7th Generation Intel Core™ i3 / i5 Processor or 8th 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>Cel 3965U</td>
<td>2</td>
<td>2.2 GHz</td>
<td>-</td>
<td>2MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 610</td>
</tr>
<tr>
<td>3/7130U</td>
<td>2</td>
<td>2.7 GHz</td>
<td>-</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>3/7200U</td>
<td>2</td>
<td>2.5 GHz</td>
<td>3.1 GHz</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>3/7300U</td>
<td>2</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>
</tbody>
</table>

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

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

**Dimensions**
- WxHxD: 14.82" x 10.02" x 0.90"; 376.5mm x 254.5mm x 22.95mm
- Starting at 4.46 lb / 2.0 kg

**ExpressCard**
- None

**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, multi-SIM card reader, side docking connector, security keyhole

**Monitor cable**
- (optional)

**Camera (optional)**
- HD 720p camera, fixed focus

**Audio support**
- HD Audio, Realtek ALC3287 codec / stereo speakers, 2W x 2, Dolby Audio™

**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**
- Discrete TPM 2.0, TCG Certified

**Fingerprint reader**
- Optional: Touch style match on chip fingerprint reader on the palm rest, anti-spoofing technology

**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**
- 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.
## ThinkPad P1 Platform Specifications

<table>
<thead>
<tr>
<th>Processor</th>
<th>8th Generation Intel® Core™ i5 / i7 Processor or Intel Xeon® E Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Processor Number</strong></td>
<td><strong># of Cores</strong></td>
</tr>
<tr>
<td>IS-8400H</td>
<td>4</td>
</tr>
<tr>
<td>7-8750H</td>
<td>6</td>
</tr>
<tr>
<td>7-8850H</td>
<td>6</td>
</tr>
<tr>
<td>E-2176M</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Graphics</th>
<th>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 (Thunderbolt), 4096x2160@60Hz (HDMI)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Chipset Memory</th>
<th>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</th>
</tr>
</thead>
</table>

| 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) |

<table>
<thead>
<tr>
<th>Multi-touch (opt)</th>
<th>Capacitive-type multi-touch, supports 10-finger gesture (4K only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pen</td>
<td>Supports pen accessory, please see the accessory compatibility for details</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storage</th>
<th>Up to 2 drives (two M.2 SSD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAID (optional)</td>
<td>None</td>
</tr>
<tr>
<td>Optical</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ethernet</th>
<th>Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via bundled or optional ThinkPad Ethernet Extension Cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLAN</td>
<td>Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card</td>
</tr>
<tr>
<td>Bluetooth™</td>
<td>Bluetooth 5.0, integrated in Wi-Fi + Bluetooth combo adapter</td>
</tr>
<tr>
<td>WWAN</td>
<td>None</td>
</tr>
</tbody>
</table>

| Dimensions | WxDxDxH (non-touch): 14.24" x 9.67" x 0.72"; 361.8mm x 245.7mm x 18.4mm  
WxDxDxH (multi-touch): 14.24" x 9.67" x 0.74"; 361.8mm x 245.7mm x 18.7mm  
Non-touch model: starting at 3.76 lb (1.7 kg);  
Multi-touch model: starting at 4.06 lb (1.8 kg) |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

<table>
<thead>
<tr>
<th>Weight</th>
<th>Case color</th>
<th>Case material</th>
<th>Display cover: CFRP/GFRP hybrid; Bottom: Aluminum alloy</th>
</tr>
</thead>
</table>

**Note:** The specifications above may not be available in all regions.
## ThinkPad P51 Platform Specifications

*Product Specifications Reference (PSREF)*

### Processor
6th or 7th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 or v6 Family

<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>8 MB</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>8 MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 530</td>
</tr>
<tr>
<td>i7-7700HQ</td>
<td>4</td>
<td>8</td>
<td>2.8 GHz</td>
<td>3.8 GHz</td>
<td>6 MB</td>
<td>DDR4-2400</td>
<td>Intel HD Graphics 630</td>
</tr>
<tr>
<td>E3-1505M v6</td>
<td>4</td>
<td>8</td>
<td>2.9 GHz</td>
<td>3.9 GHz</td>
<td>6 MB</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></td>
<td>DDR4-2400</td>
<td>Intel HD Graphics P630</td>
</tr>
</tbody>
</table>

### 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@60Hz (DisplayPort via Mini DisplayPort cable); 3840x2160@60Hz (Thunderbolt); 4096x2160@24Hz (HDMI)

### Chipset
- Mobile Intel CM238 Chipset
- 64GB max / 2400MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets
- * System clocks down for processors with lower memory controller

### Memory
64GB max / 2400MHz DDR4, ECC or non-ECC (ECC function supported only on E3-1505M v6)

### Display
- **Some**: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16.9 aspect ratio, 700:1 contrast ratio, 160° viewing angle
- **Some**: 15.6" (396mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 300 nits, 16.9 aspect ratio, 1000:1 contrast ratio, 100% gamut, 170° viewing angle

### Multi-touch (optional)
- Capacitive-type multi-touch, supports 10-finger gesture, 220 nits (FHD only)
- ThinkPad Pen Pro, active pen for multi-touch display

### 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
- RAID 0/1 support

### Optical
- Optional:
  - 3-button TrackPoint® pointing device and 3-button Mylar surface multi-touch touchpad
  - 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:
  - 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 8260/865 driver support BT4.2 but is limited to BT4.1 by Windows OS

### Bluetooth™
- One of the following, configurable by model:
  - 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card
  - Four USB 3.1 Gen 1 (USB 3.0, one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort 1.2a, HDMI 1.4b, Ethernet (RJ-45), Dock connector
  - Depending on many factors, actual data transfer speed may be lower than theoretical speed

### Security chip (optional)
- Security chip
- vPro (optional)

### Touchpad
- 3-button Mylar surface multi-touch touchpad
- Optional:
  - 4-button HD Audio, Realtek ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

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

### AC adapter
- 170W slim tip AC adapter

### Preload
- Windows® 10 Professional 64
- Windows® 10 Home 64
- Windows® 10 Pro 64
- Windows® 10 Pro 64 for Workstations

### Limited warranty
- 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

**Note:** The specifications above may not be available in all regions.
## 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>7-6500U</td>
<td>2</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>4</td>
<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>

or 7th Generation Intel Core 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>5-7300U</td>
<td>2</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>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>8</td>
<td>2.6 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
- Maximum resolution: 4096x2304 @ 60Hz (USB Type-C); 3840x2160 @ 30Hz (HDMI)

## 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

## Display

- Some: 15.6" (396mm) FHD, anti-glare, LED backlight, IPS, 250 nits, 16.9 aspect ratio, 72% gamut 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 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: 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: 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 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
  - Integrated Mobile Broadband 4G LTE
  - Intel XMM™ 7160 (Fibocom L831-EAU), M.2 card (EAME only)

## SIM card (optional)

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

## Case color

- Black

## Case material

- Glass-Fiber Reinforced Plastic (PPS)

## 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, 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

## 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

## Security

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

## Security chip

- VPro (optional)
  - **TrackPoint** pointing device and buttonless Mylar surface multi-touch touchpad

## Security chip

- 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)

## Operating systems

- Windows 7 Professional 64 preinstalled (30-day trial)
- Windows 10 Pro 64 through downgrade rights in Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo PowerEdge
- 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

## 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>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processors</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-8750H</td>
<td>6</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>
<tr>
<td>7-8850H</td>
<td>6</td>
<td>2.6 GHz</td>
<td>4.3 GHz</td>
<td>9MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>i7-8850HK</td>
<td>6</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>
<tr>
<td>E-2176M</td>
<td>6</td>
<td>2.7 GHz</td>
<td>4.4 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 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;
Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable); 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, 160° viewing angle*

* Some: 15.6" (396mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 400 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 100% gamut, 170° viewing angle, multi-touch*

#### 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

Up to 3 drives (two M.2 SSD and one HDD)

* 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 (optional)

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 (optional)

Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7380 (Fibocom L850-GL), M.2 card

#### SIM card (opt)

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

---

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

---

**Dimensions**

<table>
<thead>
<tr>
<th>WxDxH:</th>
<th>14.86&quot; x 9.93&quot; x 0.96-1.16&quot;; 377.4mm x 252.3mm x 24.5-29.4mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>14.86&quot; x 9.93&quot; x 1.02-1.21&quot;; 377.4mm x 252.3mm x 25.8-30.7mm</td>
</tr>
</tbody>
</table>

**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:** None

**Ports**

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

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

* Power Delivery only supports power-out for charging peripherals

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

**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 / stereo speakers, 2W x 2, Dolby Audio Premium / dual array microphone, headphone / microphone combo jack, Dolby Atmos headphone

**Keyboard**

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

**Security chip**

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 90Wh battery

**Max battery life**

[MobileMark® 2014]

AC adapter

- Discrete mode: 6.1 hr; Hybrid mode: 8.9 hr

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

170W 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® 6.1; RoHS-compliant

---

Lenovo

April 2019
# ThinkPad P52s Platform Specifications

**Product Specifications Reference (PSREF)**

<table>
<thead>
<tr>
<th>Processor 8th Generation Intel® Core™ i5 / i7 Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Processor Number</strong></td>
</tr>
<tr>
<td>----------------------</td>
</tr>
<tr>
<td>Intel 14nm</td>
</tr>
<tr>
<td>8th Generation Intel® Core™ i5 / i7 Processor</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 | Intel SoC (System on Chip) platform |

| 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. 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™. **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 / PCIe NVMe, PCIe 3.0 x 2, 16Gb/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) |

| WLAN + Bluetooth™ | Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card. * For non-WWAN model, it means the model is NOT WWAN upgradable. |

| WWAN (optional) | One of the following, configurable by model: Wireless WAN upgradable. Integrated Mobile Broadband 4G LTE, or LTE-A, or LTE-B. Integrated Mobile Broadband 4G LTE-A, or LTE-A, or LTE-B. 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 |

| Port | 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), 3.5mm audio jack, 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. |

| Monitor cable (optional) | USB-C to DP: Lenovo USB-C to DisplayPort Adapter. |

| Camera (optional) | One of the following, configurable by model: HD720p camera with ThinkShutter camera privacy, fixed focus. |

| Audio support | HD Audio, Realtek® ALC2287 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. UltraNav™ pointing device and buttonless Mylar surface multi-touch touchpad. |


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

| NFC (optional) | Near Field Communication. |

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

<table>
<thead>
<tr>
<th>Max battery life (MobileMark® 2014)</th>
<th>Models</th>
<th>48Wh</th>
<th>72Wh</th>
<th>32Wh + 48Wh</th>
<th>32Wh + 48Wh</th>
<th>32Wh + 72Wh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max battery life</td>
<td>12.2h</td>
<td>18.5h</td>
<td>13.5h</td>
<td>20.1h</td>
<td>26.3h</td>
<td></td>
</tr>
</tbody>
</table>

| AC adapter | 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-year depot repair service. 3-year/1-year limited onsite service. |

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

| Environment | EPEAT® Gold (US only); ENERGY STAR® 6.1; RoHS-compliant. |
## ThinkPad P72 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>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>
<tr>
<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>
</tr>
<tr>
<td>E-2176M</td>
<td>6</td>
<td>12</td>
<td>2.7 GHz</td>
<td>4.4 GHz</td>
<td>12MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 630</td>
</tr>
<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 (16GB memory);
- 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

### Display

- Some: 17.3” (439mm) FHD (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

### Multi-touch Pen

- None

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

### 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 x 4, 32Gb/s

### Optane™ memory

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

### RAID (optional)

- 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

- None

### SIM card

- None

### 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-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

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

Lenovo

May 2019
## 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>i7-6200U</td>
<td>2</td>
<td>2.3 GHz</td>
<td>2.8 GHz</td>
<td>3 MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 520</td>
</tr>
<tr>
<td>i7-6300U</td>
<td>2</td>
<td>2.4 GHz</td>
<td>3.0 GHz</td>
<td>3 MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 520</td>
</tr>
<tr>
<td>i7-6500U</td>
<td>4</td>
<td>2.5 GHz</td>
<td>3.1 GHz</td>
<td>4 MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>i7-6600U</td>
<td>4</td>
<td>2.6 GHz</td>
<td>3.4 GHz</td>
<td>4 MB</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

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: 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

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

Some: 128GB M.2 SSD / SATA 6.0Gb/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN and WiGiG

## 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™

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 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 8285, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
- Intel Dual Band Wireless-AC 8225, 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)

One of the following, configurable by model (WWAN can coexist with WiGiG):

- Wireless WAN upgradeable
- 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

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-cell</td>
<td>3.63 lb / 1.65 kg</td>
</tr>
<tr>
<td>3 + 3-cell</td>
<td>3.92 lb / 1.78 kg</td>
</tr>
<tr>
<td>6-cell</td>
<td>4.35 lb / 1.95 kg</td>
</tr>
</tbody>
</table>

## 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

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

Discrete TPM 2.0, TCG Certified

## vPro (optional)

Intel vPro Technology

Fingerprint reader

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

## NFC (optional)

Near Field Communication

## Internal battery

Integrated Li-Polymer 3-cell (24Wh)

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

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-cell</td>
<td>6.9 hr</td>
</tr>
<tr>
<td>3 + 3-cell</td>
<td>13.9 hr</td>
</tr>
<tr>
<td>6-cell</td>
<td>20.9 hr</td>
</tr>
<tr>
<td>3 + 6-cell</td>
<td>21.2 hr</td>
</tr>
<tr>
<td>6-cell</td>
<td>27.1 hr</td>
</tr>
</tbody>
</table>

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;

• 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-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

April 2019
## Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
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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>DDR4-2133</td>
<td>Intel HD Graphics 520</td>
</tr>
<tr>
<td>i5-6300U</td>
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<td>2.4 GHz</td>
<td>3.0 GHz</td>
<td>3MB</td>
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<tr>
<td>i7-6600U</td>
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<td>4</td>
<td>2.6 GHz</td>
<td>3.4 GHz</td>
<td>3MB</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>
</tr>
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<tbody>
<tr>
<td>i7-7200U</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 520</td>
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<tr>
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<tr>
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<td>Intel HD Graphics 620</td>
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<tr>
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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>

### Memory

20GB or 24GB max7 / 2400MHz DDR4, dual-channel capable, Intel SoC (System on Chip) platform

### Chipset

Intel SoC (System on Chip) platform

20GB or 24GB max (optional) / 2400MHz DDR4, dual-channel capable, 4GB or 8GB memory soldered to system board, one DDR4 SO-DIMM socket

### Display

Some: 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, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 160° viewing angle

On-cell touch, supports 10-finger gesture, 250 nits (FHD only)

### 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)

### Storage

One of the following, configurable by model:

- M.2 SSD / SATA 6.0Gb/s (e.g. x36GB SSD M.2)
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. x36GB SSD M.2 PCIe NVMe)

### 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 is mutually exclusive 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™

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 (mutually exclusive with WiGig):

- Wireless WAN upgradable
- 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 (optional)

### Audio support

HD Audio, Realtek® ALC3268 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

### Security

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

### Safety

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

### Fingerprint reader

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

### Camera

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

### Keyboard

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

### UltraNav™

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

### Internal battery

Front Li-Polymer 3-cell (23Wh) and rear Li-ion 3-cell (26Wh), both Integrated MobileMark® 2014: up to 10.5 hr

### AC adapter

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

### Operating system

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

### 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

### Other software

- Adobe
- ThinkVantage System Update
- ThinkVantage Product Recovery
- Lenovo PowerEngage
- Lenovo Solution Center
- Microsoft Office preloaded;
  purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

### Preload

Windows® 7 Professional 64 preinstalled

Some: Windows 10 Home 64

Some: Windows 10 Pro 64

Lenovo Companion

Lenovo Setting

Microsoft Office preloaded;
purchase a product key to activate

### Lenovo USB-C to VGA Adapter

- Lenovo USB-C to VGA Adapter

### Lenovo HDMI to VGA Monitor Adapter

HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter

### Lenovo WiGig dock, mutually exclusive with WWAN

ThinkPad WiGig dock, mutually exclusive with WWAN

### Lenovo Setting

- Lenovo Setting

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

Lenovo

April 2019
ThinkPad T480 Platform Specifications

Product Specifications Reference (PSREF)

Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
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<td>i5-8250U</td>
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<td>Intel UHD Graphics 620</td>
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<tr>
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<td>2.49 GHz</td>
<td>4MB</td>
<td>DDR4</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 clocks down for processors with lower memory controller

Display

- **Some:** 14.0” (355mm) HD (1366x768), anti-glace, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio
- **Some:** 14.0” (355mm) FHD (1920x1080), anti-glace, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle
- **Some:** 14.0” (355mm) QHD (2560x1440), anti-glace, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle
- On-cell touch, supports 10-finger gesture (FHD only)

Multi-touch (optional)

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

Storage

- System has one SSD 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.xxGB SSD)
- Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gbps
- Some: 128GB M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gbps, in WWAN slot as 2nd Storage, mutually exclusive with WWAN

Optane™ memory

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

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™ 7265 (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

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

Dimensions

<table>
<thead>
<tr>
<th>WxDxH:</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.25” x 9.15” x 0.79”</td>
<td>3.49 lb / 1.58 kg</td>
</tr>
<tr>
<td>-</td>
<td>3.92 lb / 1.78 kg</td>
</tr>
</tbody>
</table>

Case color

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

Smart card reader

- Optional: Smart card reader
- 4-in-1 reader (MMC, SD, SDHC, SDXC)
- Two USB 3.1 Type-C 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 media reader (MMC, SD, SDHC, SDXC)

Media reader

- Port: side docking connector, security keyhole
- * Depending on many factors, actual data transfer speed may be lower than theoretical speed

HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter

Display

- USB-C to DP: Lenovo USB-C to DisplayPort Adapter

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

- 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
- Intel vPro Technology

Fingerprint reader (optional)

- Touch style match on-chip fingerprint reader on the keyboard bezel, anti-spoofing technology

NFC (optional)

- Near Field Communication

Battery

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

Max battery life

- (MobileMark® 2014): 6.6 hr, 13.2 hr, 19.8 hr, 13.6 hr, 19.8 hr, 26.4 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® Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

Lenovo

May 2019
ThinkPad T480s Platform Specifications

Product Specifications Reference (PSREF)

Processor

7th Generation Intel® Core™ i5 Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
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<th>Max Turbo Frequency</th>
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<th>Memory Types</th>
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<tr>
<td>5-7200U</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>
</tr>
<tr>
<td>5-7300U</td>
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<td></td>
<td>2.5 GHz</td>
<td>3.5 GHz</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
</tbody>
</table>

or 8th 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>
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<th>Processor Graphics</th>
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<tr>
<td>5-8250U</td>
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<td>Intel UHD Graphics 620</td>
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<tr>
<td>5-8350U</td>
<td></td>
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<td>1.7 GHz</td>
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<td>4.2 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

* System clocks down for processors with lower memory controller

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)

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

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection 219-V (Jacksonville)

vPro model: Intel Ethernet Connection 219-LM (Jacksonville)

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

WWAN (optional)

One of the following, configurable by model:
- Wireless WAN upgradable
- 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

SIM card (optional)

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

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

April 2019

Lenovo
ThinkPad T490 Platform Specifications

Product Specifications Reference (PSREF)

Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
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<tbody>
<tr>
<td>i5-8265U</td>
<td>1</td>
<td>2</td>
<td>1.6 GHz</td>
<td>3.9 GHz</td>
<td>8MB</td>
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<td>Intel UHD Graphics 620</td>
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<tr>
<td>i5-8365U</td>
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<td>2</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>2</td>
<td>2</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>
<td>4</td>
<td>4</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 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: 4096x2306@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 systemboard, one DDR4 SO-DIMM socket

Display

14" FHD (1920x1080) IPS Anti-glare 220 nits 16:9 45% 90°
14" FHD (1920x1080) IPS Anti-glare 220 nits 16:9 45% 90°
14" FHD (1920x1080) IPS Anti-glare 220 nits 16:9 45% 90°
14" FHD (1920x1080) IPS Anti-glare 220 nits 16:9 45% 90°

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 2194-V (Jacksonville)
vPro model: Intel Ethernet Connection 2194-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)

Mobile Broadband 4G LTE, Fibocom L830-EB, M.2 card (EMEA only)
Mobile Broadband 4G LTE, Fibocom L850-GL, M.2 card
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

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

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

Lenovo
May 2019
### ThinkPad T490s Platform Specifications

#### Processor

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<td>8MB</td>
<td>DDR4-2400</td>
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</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

#### Display

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>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>14.0” FHD (1920x1080)</td>
<td>IPS Anti-glare</td>
<td>250 nits (non-touch) 300 nits (multi-touch)</td>
<td>16:9</td>
<td>700:1</td>
<td>45%</td>
<td>170°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.0” FHD (1920x1080)</td>
<td>IPS Anti-glare</td>
<td>400 nits</td>
<td>16:9</td>
<td>800:1</td>
<td>72%</td>
<td>170°</td>
<td></td>
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<tr>
<td>14.0” FHD (1920x1080)</td>
<td>ThinkPad Privacy Guard</td>
<td>IPS Anti-glare</td>
<td>400 nits</td>
<td>16:9</td>
<td>1000:1</td>
<td>72%</td>
<td>170°</td>
<td></td>
</tr>
<tr>
<td>14.0” WQHD (2560x1440)</td>
<td>Dolby Vision™ HDR</td>
<td>IPS Glossy</td>
<td>500 nits</td>
<td>16:9</td>
<td>1500:1</td>
<td>100% Adobe</td>
<td>170°</td>
<td></td>
</tr>
</tbody>
</table>

#### 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
- 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 802.11ax + Bluetooth 5.0
  - Intel Wireless-AX 22260, Wi-Fi 2x2 802.11ax + Bluetooth 5.0
  - Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

#### Bluetooth

- 5.0

#### WWAN (optional)

- One of the following, configurable by model:
  - Wireless WAN upgradable
  - Integrated Mobile Broadband 4G LTE, Fibocom LB30-EB, 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

<table>
<thead>
<tr>
<th>Weight</th>
<th>Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>Black with FHD</td>
</tr>
<tr>
<td>2.39 lb / 1.09 kg</td>
<td>2.81 lb / 1.27 kg</td>
</tr>
</tbody>
</table>

#### Case color

- Black or Silver

#### Case material

- Black or Silver
- Display cover: CFRP Hybrid (black) or Aluminum (silver)
- Bottom: Magnesium

#### 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 extension connector, nano-SIM card slot (WWAN models), one USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of PD and DP), USB-C to USB-C, optional: ThinkPad Ethernet Extension Adapter Gen 2

#### Bundled Accy

- Optional: Lenovo USB-C to DisplayPort Adapter

#### Camera

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

#### Audio support

- TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad
- Power-on password, hard disk password, supervisor password, security keyhole
- Intel vPro Technology
- Near Field Communication
- Lenovo USB-C to DisplayPort Adapter

#### Keyboard

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

#### Security

- Power-on password, hard disk password, supervisor password, security keyhole
- Intel vPro Technology
- Near Field Communication
- Lenovo USB-C to DisplayPort Adapter

#### Battery

- Integrated Li-ion 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- Battery life varies significantly with settings, usage, & other factors

#### Max battery life

- 10 Home 64 or Windows 10 Pro 64
- MobileMark® 2014: 20 hr

#### AC adapter

- Integrated Li-ion 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- 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
- 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:** Specifications above may not be available in all regions. Lenovo May 2019
### 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>
<td>2</td>
<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>7-6600U</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 520</td>
</tr>
<tr>
<td>5-7200U</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>
</tr>
<tr>
<td>5-7300U</td>
<td>2</td>
<td>4</td>
<td>2.6 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>2.6 GHz</td>
<td>3.9 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

#### Graphics

- Intel HD Graphics 520 or 260 in processor only, or Intel HD Graphics 520 or 620 in processor and NVIDIA GeForce 940MX, 2GB 2.5G Hz Dedicated 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

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

#### Storage

- System has one HDD slot or one 2.2280 slot exclusively for storage

#### 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 + BT 4.1, M.2 card (US only)
  - 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

- Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter
  - Intel 8265ac / 18265ac card support BT 4.2 but is limited to BT 4.1 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

#### Camera

- 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

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

#### Security

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

#### Ultralight™

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

#### NFC

- 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)

#### Battery life

- Some: 13.6 hr, 12.5 hr, 18.5 hr, 20.3 hr, 27.1 hr
- Discrete: 13.8 hr, 12.8 hr, 18.5 hr, 20.3 hr, 28.6 hr

#### Warranty

- Lenovo 3-year/1-yr battery limited onsite service
- 1-year depot repair service
- Lenovo LiveSafe®
- Lenovo Solution Center
- Lenovo PowerEngage
- ThinkVantage Productivity Recovery
- ThinkVantage System Update
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate

#### Environmental

- EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant
## ThinkPad T580 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>
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<td>2</td>
<td>4</td>
<td>2.5 GHz</td>
<td>3.1 GHz</td>
<td>3MB</td>
<td>DDR2-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>7-7300U</td>
<td>2</td>
<td>4</td>
<td>2.5 GHz</td>
<td>3.5 GHz</td>
<td>3MB</td>
<td>DDR2-2133</td>
<td>Intel HD Graphics 620</td>
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<tr>
<td>8-5250U</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>3.4 GHz</td>
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<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
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<tr>
<td>8-8350U</td>
<td>4</td>
<td>8</td>
<td>1.7 GHz</td>
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<td>Intel UHD Graphics 620</td>
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<tr>
<td>7-8550U</td>
<td>4</td>
<td>8</td>
<td>1.8 GHz</td>
<td>4.0 GHz</td>
<td>8MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>8-7650U</td>
<td>4</td>
<td>8</td>
<td>1.9 GHz</td>
<td>4.2 GHz</td>
<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.

### 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 (USB Type-C); 4096x2160@30Hz (HDMI)

### Display

- **On-cell touch**: supports 10-finger gesture (FHD only)
- **Multi-touch (opt)**: supports 10-finger gesture (FHD only)

### Storage

- **System has one HDD slot or one M.2 2280 slot exclusively for storage**
- **Some**: HD/DATA of 6.0Gbps, 2.5" wide, 7mm high, active protection system™
- **Some**: SSD/SATA of 6.0Gbps, 2.5" wide, 7mm high (e.g. xxxGB SSD)
- **Some**: M.2 SSD/Pcie NVMe, Pcie 3.0 x 2, 16Gbps
- **Some**: 128GB M.2 SSD/PCIe NVMe, PCie 3.0 x 2, 16Gbps, 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:
- Integrated Mobile Broadband 4G LTE, Intel XMM™ 7662 (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-Intel™ model, it means the model is NOT WWAN upgradeable

### SIM card (opt)

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

### Smart card reader

Optional: Smart card reader

### Media reader

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

### Ports

- **USB 3.1 Type-C Gen 1 (one Always On)**, one USB 3.1 Type-C Gen 2 / Thunderbolt 3 (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), headset / microphone combo jack, optional smart card reader,

### Monitor cable (optional)

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

### Camera

One of the following, configurable by model:
- HD 720p camera with ThinkShutter camera privacy, fixed focus
- IR camera and HD 720p 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

Discrete TPM 2.0, TCG Certified

### Monitor cable (optional)

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

### Fingerprint reader

Optional: Touch style match on chip fingerprint reader on the palm rest, anti-spoofing technology

### Security

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

### NFC (optional)

Near Field Communication

### Battery

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

### Max battery life

(MobileMark® 2014)

### AC adapter

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

### 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

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

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Lenovo
May 2019
ThinkPad T590 Platform Specifications

Product Specifications Reference (PSREF)

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

<table>
<thead>
<tr>
<th>Processor Number</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>1.6 GHz</td>
<td>3.9 GHz</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>i5-8365U</td>
<td>1.6 GHz</td>
<td>4.1 GHz</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>i7-8656U</td>
<td>1.9 GHz</td>
<td>4.6 GHz</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>i7-8665U</td>
<td>1.9 GHz</td>
<td>4.8 GHz</td>
<td>8 MB</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 48GB max / 2400MHz DDR4, dual-channel capable, 8GB or 16GB memory soldered to systemboard, 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</th>
<th>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” FHD</td>
<td>(1920x1080)</td>
<td>IPS</td>
<td>Anti-glare</td>
<td>250 nits</td>
<td>16:9</td>
<td>700:1</td>
<td>45%</td>
<td>170°</td>
</tr>
<tr>
<td>15.6” UHD</td>
<td>(3840x2160)</td>
<td>IPS</td>
<td>Anti-glare</td>
<td>500 nits</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)

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

* For non-wwan model, the model is not WWAN upgradable

Dimensions WxHxD: 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

* 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

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

USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Bundled Accy None

Camera (optional) One of the following, configurable by model:

Audio support

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

Security

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

Security chip

- Intel vPro Technology

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

Battery Integrated Li-ion 57Wh 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)

* 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-year battery depot repair service
- 3-year/1-year 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

<table>
<thead>
<tr>
<th>Processor</th>
<th>6th Generation Intel® Core™ i5 / i7 Processor (EMEA has only i5-6300U and i7-6600U)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor Number</td>
<td># of Cores</td>
</tr>
<tr>
<td>i5-6200U</td>
<td>2</td>
</tr>
<tr>
<td>i5-6300U</td>
<td>2</td>
</tr>
<tr>
<td>i7-6500U</td>
<td>2</td>
</tr>
<tr>
<td>i7-6600U</td>
<td>2</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

### Memory
- 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) QHD+ (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle

### Multi-touch
- None

### 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 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
  * 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)
- Micro-SIM card slot, opt Verizon LTE (US) or Lenovo 5 Connect (EMEA) SIM card

### Dimensions and Weight
- Wx Dx H: 12.74” x 8.55” x 0.63”;
- Starting at 2.49 lb / 1.13 kg

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

### Case material
- Display cover: CFRP/GFRP hybrid;
- Bottom: magnesium alloy hybrid

### Preload
- Windows 7 Professional 64 preinstalled 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)

### 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

### Certification
- MIL-STD-810G military certification
- EPEAT® Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

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

**Product Specifications Reference (PSREF)**

**Lenovo**

**April 2019**

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

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<th>Processor Graphics</th>
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<td>Lakefield</td>
</tr>
<tr>
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<td>1.9 GHz</td>
<td>4.2 GHz</td>
<td>8MB</td>
<td>LPDDR3-2133</td>
<td>Lakefield</td>
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<tr>
<td>i7-8650U</td>
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<td>4.0 GHz</td>
<td>8MB</td>
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<td>Lakefield</td>
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<tr>
<td>i7-8750U</td>
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<td>4</td>
<td>1.7 GHz</td>
<td>4.1 GHz</td>
<td>8MB</td>
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<td>Lakefield</td>
</tr>
<tr>
<td>i7-8850U</td>
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<td>4</td>
<td>1.7 GHz</td>
<td>4.2 GHz</td>
<td>8MB</td>
<td>LPDDR3-2133</td>
<td>Lakefield</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 (USB Type-C); 4096x2160 (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 (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 (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)

#### 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)

- 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

- 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/GF/FRP 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

#### Monitor cable

- (optional) HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter

#### Bundled Accy

- Optional: ThinkPad Ethernet Extension Adapter Gen 2

#### 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 / stereo speakers, 1W x 2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo jack, Dolby® Atmos™ via headphones

#### Keyboard

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

#### Security

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

#### Security chip

- 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 52Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

#### Max battery life

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

#### AC adapter

- MobileMark® 2014: 19.3 hr

#### 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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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>
</tr>
</thead>
<tbody>
<tr>
<td>i5-8300H</td>
<td>4</td>
<td>8</td>
<td>2.3 GHz</td>
<td>4.0 GHz</td>
<td>8MB</td>
<td>DDR4-2666</td>
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<td>4.3 GHz</td>
<td></td>
<td></td>
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</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

- Up to 2 drives (two M.2 SSD)
- 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
- RAID 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 wireless, integrated in Wi-Fi + Bluetooth combo adapter

## WWAN

- None

## Dimensions

- 14.24" x 9.67" x 0.74"; 361.8mm x 245.7mm x 18.4mm
- 361.8mm x 245.7mm x 18.7mm
- 361.8mm x 245.7mm x 18.4mm

## Weight

- 3.66 lb (1.65 kg)
- 3.76 lb (1.7 kg)
- 3.64 lb (1.67 kg)

## Case color

- Black

## Case material

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

## Smart card reader

- Optional: Smart card reader

## 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
- HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter

## 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 ALC3286 codec /
- stereo speakers, 2W x 2, Dolby Audio™ Premium / dual array microphone, 4K resolution
- headset / microphone combo jack, Dolby Atmos® headphone

## Keyboard

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

## Security

- Security chip
- vPro
- Security chip
- Fingerprint reader
- Touch style match on chip fingerprint reader on the keyboard bezel

## Battery

- Integrated Li-ion 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- * 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® 7.0; RoHS-compliant

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

Lenovo
April 2019
### ThinkPad X270 Platform Specifications

**Product Specifications Reference (PSREF)**

**Lenovo**

**April 2019**

#### Processor

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

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<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
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<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: 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

- Some: 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, 500 nits, 16.9 aspect ratio, 170° viewing angle
- Some: 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 350 nits, 16.9 aspect ratio, 170° viewing angle
- Some: 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 350 nits, 16.9 aspect ratio, 170° viewing angle

#### Multi-touch (opt)

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

#### Storage

- System has one HHD 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. 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

#### 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 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
- * 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 (opt)

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

### Dimensions

- **WxDxH:** 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm

### Weight

<table>
<thead>
<tr>
<th>Models</th>
<th>No + 3-cell</th>
<th>3-cell + 3-cell</th>
<th>3-cell + 6-cell</th>
<th>3-cell + 6-cell 72Wh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>2.79 lb / 1.27 kg</td>
<td>2.98 lb / 1.36 kg</td>
<td>3.33 lb / 1.52 kg</td>
<td></td>
</tr>
</tbody>
</table>

### Case color

- Black

### Case material

- Display cover: Glass-Fiber Reinforced Plastic;
- Bottom: Glass-Fiber Reinforced Plastic

### Smart card reader

- Optional: Smart card reader

### Media reader

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

### Ports

- Two USB 3.1 Gen 1 (USB 3.0, one Always On),
- USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort),
- HDMI 1.4b, Ethernet (RJ-45), Dock connector

### WiGig dock (opt)

- ThinkPad WiGig dock, mutually exclusive with WWAN (US only)

### Monitor cable (optional)

- HDMI to VGA
- Lenovo HDMI to VGA Monitor Adapter

### USB-C to DP

- Lenovo USB-C to VGA Adapter

### Camera (optional)

- HD720p resolution, fixed focus

### Audio support

- HD Audio, Realtek ALC3268 codec / stereo speakers, 1.5W 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

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

### Security chip

- Intel vPro Technology

### vPro (optional)

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

### Internal battery

- Optional: Integrated Li-ion or Li-Polymer 3-cell (23Wh)
- Li-ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)

### External battery

- Models No + 3-cell 3-cell + 3-cell 3-cell + 6-cell 48Wh or 72Wh 3-cell + 6-cell 72Wh
- Max battery life: 6.52 hr 13.04 hr 20.1 hr 26.9 hr

### AC adapter

- *Battery life varies significantly with settings, usage, & other factors
- 45W slim tip AC adapter or 45W 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

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

April 2019
ThinkPad X280 Platform Specifications

Product Specifications Reference (PSREF)

Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
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<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i3-7130U</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>8</td>
<td>2.5 GHz</td>
<td>3.1 GHz</td>
<td>3MB</td>
<td>DDR4-2400</td>
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<td>DDR4-2133</td>
<td>Intel UHD Graphics 620</td>
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<td>7-8550U</td>
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<td>4.0 GHz</td>
<td>8MB</td>
<td>DDR4-2133</td>
<td>Intel UHD Graphics 620</td>
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<tr>
<td>7-8650U</td>
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<td>8</td>
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<td>4.2 GHz</td>
<td>8MB</td>
<td>DDR4-2133</td>
<td>Intel UHD Graphics 620</td>
</tr>
</tbody>
</table>

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 (FDH only)
- * FDH non-touch model is NOT available in US

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

- None

Optical

- None

Ethernet

- Intel Ethernet Connection I219-V (Non-vPro) or I219-DM (vPro)

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:
  - Integrated Mobile Broadband 4G LTE, Intel XMM™ 7602 (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 (opt)

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

Dimensions

- WxDxH: 12.11" x 8.26" x 0.69-0.70"; 307.7mm x 209.8mm x 17.4-17.8mm

Weight

- FHD non-touch model: 2.49 lb / 1.13 kg;
- HD non-touch model: 2.78 lb / 1.26 kg;
- FHD multi-touch model: 2.79 lb / 1.27 kg

Case color

- Black

Case material

- Display cover: Carbon Fiber (FHD non-touch model) or Glass Fiber (HD & FHD multi-touch model);
- Bottom: Magnesium/Aluminum

Smart card reader

- Optional: Smart card reader

Media reader

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

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 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

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

Camera

- 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

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

Security

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

Security chip

- Discrete TPM 2.0, TCG Certified

vPro (optional)

- Intel vPro Technology

Fingerprint reader

- Optional: Touch style match on chip fingerprint reader on the palm rest, anti-spoofing technology

NFC (optional)

- Near Field Communication

Battery

- Integrated Li-ion 48Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

Max battery life

- 6W USB Type-C AC adapter
- MobileMark® 2014: 16.6 hr

* 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

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.
### Processor

**8th 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>i3-8145U</td>
<td>2</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>1.6 GHz</td>
<td>4.1 GHz</td>
<td>6MB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>i7-8565U</td>
<td>4</td>
<td>1.6 GHz</td>
<td>4.6 GHz</td>
<td>8MB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7-8665U</td>
<td>2</td>
<td>1.9 GHz</td>
<td>4.8 GHz</td>
<td>8MB</td>
<td></td>
<td></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 (Thunderbolt); 4096x2160@24Hz (HDMI)

### Chipset Memory

Intel SoC (System on Chip) platform 8GB, 16GB or 32GB / 2400MHz DDR4 / soldered to system board, no sockets * 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>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;</td>
<td>HD (1366x768)</td>
<td>TN</td>
<td>250 nits</td>
<td>16:9</td>
<td>300:1</td>
<td>45% 170°</td>
</tr>
<tr>
<td>13.3&quot;</td>
<td>FHD (1920x1080)</td>
<td>IPS</td>
<td>300 nits</td>
<td>16:9</td>
<td>1200:1 (non-touch) 700:1 (multi-touch)</td>
<td>72% 170°</td>
</tr>
<tr>
<td>13.3&quot;</td>
<td>FHD (1920x1080)</td>
<td>Anti-glare</td>
<td>400 nits</td>
<td>16:9</td>
<td>1000:1</td>
<td>72% 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 Drive

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™

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 (EMEA 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</th>
<th>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>
<td>2.84 lb / 1.28 kg</td>
</tr>
<tr>
<td>PPS</td>
<td>2.95 lb / 1.29 kg</td>
<td>2.93 lb / 1.33 kg</td>
<td></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

### 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 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

### Bundled Accy

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

### 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

### Security chip

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

65W or 65W USB Type-C AC adapter

### 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

### MI-Spec test

MIL-STD-810G military certification

### Environment

EPEAT Bronze; ENERGY STAR® 7.0; RoHS-compliant

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

Lenovo
April 2019
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Lenovo Services:

**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](http://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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</tr>
</tbody>
</table>
Summary of Changes

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

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</th>
<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 Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>m3-7Y30</td>
<td>2</td>
<td>2</td>
<td></td>
<td>1.0 GHz</td>
<td>2.6 GHz</td>
<td>4MB</td>
<td>LPDDR3-1866</td>
<td>Intel HD Graphics 615</td>
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<tr>
<td>i5-7Y54</td>
<td>2</td>
<td>4</td>
<td></td>
<td>1.2 GHz</td>
<td>3.2 GHz</td>
<td>4MB</td>
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</tr>
<tr>
<td>i7-7Y57</td>
<td>2</td>
<td>4</td>
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<td>1.2 GHz</td>
<td>3.6 GHz</td>
<td>4MB</td>
<td></td>
<td></td>
</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

### Display

- 12.0” (304.8mm) FHD+ (2160x1440), glossy, LED backlight, IPS, anti-fingerprint 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
- 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)
- None
- One microSD card slot, supports up to 32GB microSDHC or 64GB microSDXC

### Ethernet

None

### WLAN

Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1, soldered M.2 chip

Intel Wireless Gigabit 11000, WiGig 802.11ad, soldered M.2 chip

### 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

### Dimensions

<table>
<thead>
<tr>
<th>Tablet only:</th>
<th>11.48” x 8.25” x 0.34”; 291.5mm x 209.5mm x 8.45mm</th>
<th>Tablet + keyboard:</th>
<th>11.48” x 8.25” x 0.56”; 291.5mm x 209.5mm x 14.15mm</th>
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<tr>
<td>Weight</td>
<td>starting at 1.69 lb (0.77kg)</td>
<td>starting at 2.35 lb (1.07kg)</td>
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### Case color

Black

### Case material

Mg + PCGF Hybrid

### Ports

- One microSD card slot (microSD, microSDHC, microSDXC)
- 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 carriage connector for optional modules, one nano-SIM card slot
- 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 to RJ45: ThinkPad USB 3.0 Ethernet Adapter

### Security

- Kensington lock slot
- Intel vPro Technology

### Fingerprint reader

Optional: Touch style Fingerprint 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 10Whr battery for presenter

### Battery

- Li-Polymer 2-cell (37Wh) battery
- Max battery life (local video playback): MobileMark® 2014: 10 hr

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

### Mil-Spec test

MIL-STD-810G military certification

### Environment

EPEAT™ Gold, GREENGUARD, Low Halogen, RoHS

---

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

---

Lenovo
August 2017
<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>Touchscreen</th>
<th>Storage (HDD/SSD)</th>
<th>WLAN + Bluetooth</th>
<th>WWAN</th>
<th>SIM Card</th>
<th>Dock</th>
<th>Monitor Cable</th>
<th>Camera (Front/ Rear)</th>
<th>Keyboard Docking</th>
<th>Pen</th>
<th>Fingerprint Reader</th>
<th>Module</th>
<th>Power Adapter</th>
<th>Operating System</th>
<th>Warranty</th>
<th>Global Warranty</th>
<th>Ann Date (mm/yy)</th>
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ThinkPad X1 Tablet (3rd Gen) Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
</tr>
</thead>
<tbody>
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<td>4.2 GHz</td>
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<td>Intel UHD Graphics 620</td>
</tr>
</tbody>
</table>

### 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-fingerprint display with Corning® Gorilla® Glass, WideView (160° viewing), 400 nits, 3:2 aspect ratio, 1200:1 contrast ratio. Capactive touch panel, supports ten-finger gesture.

### Multi-touch Pen

Optional: Lenovo Pen Pro or Lenovo Active Pen (ThinkPad Pen Pro) for multi-touch display.

### Kickstand

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 PCIe NVMe) None

### Optical Storage extension

One MicroSD card reader, in the combo slot with nano-SIM card, support USH-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"
- Tablet + keyboard: 11.97" x 8.9" x 0.57"; 304.1mm x 226mm x 8.9mm

### Weight

- Tablet only: starting at 1.96 lb (8.9kg)
- Tablet+keyboard: starting at 2.8 lb (1.27kg)

### Case color

Black

### Case material

Magnesium/Aluminum

### 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
- Optional: Lenovo Pen Pro or Lenovo Active Pen (ThinkPad Pen Pro)

### Control buttons

Power button, volume control button, reset switch

### 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

### Camera

Front camera: 2.0-megapixel, fixed focus
Rear camera: 8.0-megapixel, auto focus

### Audio support

Optional: IR camera, fixed focus (Not available with NFC)

### Realtek ALC3278 codec / stereo speakers, 1W x 2

One MicroSD card reader, in the combo slot with nano-SIM card, support USB-C to HDMI Plus Power Adapter

### Security

Kensington lock slot
Discrete TPM 2.0 TCG Certified

### Security chip

Intel vPro Technology

### Finger print reader

Optional: Touch style Finger print reader
Near Field Communication (Not available with the IR camera)

### Battery

Integrated Li-Ion 42Wh battery

### Max battery life

MobileMark® 2014: 9.5 hr

### AC adapter

45W or 65W USB Type-C AC adapter

### Power button, volume control button, reset switch

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

### Fingerprint reader

Optional: Touch style Finger print reader

Near Field Communication (Not available with the IR camera)

### Security chip

Discrete TPM 2.0 TCG Certified

### Finger print reader

Optional: Touch style Finger print reader
Near Field Communication (Not available with the IR camera)

### 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 Pro 64
Some: Windows 10 Home 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, GREENGUARD, Low Halogen, RoHS

Lenovo
October 2018
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| 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 |
| Hinge   | Yoga hinge, 360 degree |
| 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) |
| Optical | None |

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

| 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 |

| 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, HDMI 1.4b, Ethernet extension connector, headphone / microphone combo jack, microSD card reader, security keyhole |
| Monitor cable | 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 |

| Camera | 720p: HD720p resolution, low light sensitive, fixed focus |
|        | IR & 720p: IR camera and HD720p camera, fixed focus |
| Audio support | HD Audio, Realtek ALC3287 codec, Dolby® Advance / stereo speakers, 2W x 2 / dual array microphone, headphone / microphone combo jack |

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

| Security | Power-on password, hard disk password, supervisor password, security keyhole |
| vPro (optional) | Intel vPro Technology |
| Fingerprint reader | Optional: Touch style fingerprint reader on the keyboard bezel, anti-spoofing technology |
| NFC (optional) | Near Field Communication (mutually exclusive with smart card reader) |

| 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: 12.85 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 | ENERGY STAR® 6.1; RoHS-compliant |

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**ThinkPad L380 Yoga Platform Specifications**

**Product Specifications Reference (PSREF)**

**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**

Black or Silver

**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

Audio support

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

**Keyboard**

6-row multimedia Fn keys, optional LED backlight

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

**Security**

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

vPro (optional)

Intel vPro Technology

Fingerprint reader

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

NFC (optional)

Near Field Communication (mutually exclusive with smart card reader)

**Battery**

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

MobileMark® 2014: 12.85 hr

* 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

**Environment**

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

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**Lenovo**

February 2018
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<th>Region</th>
<th>Processor</th>
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<th>Memory</th>
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ThinkPad L390 Yoga Platform Specifications

Processor

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<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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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 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
- 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
- None

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

WWAN
- None

Dimension
- WxDxH: 12.67” x 8.82” x 0.74”; 321.88mm x 224.22mm x 18.8mm

Weight
- Starting at 3.44 lbs / 1.56 kg

Case color
- Black or Silver

Case material
- Display cover: Magnesium / Aluminum
  - Bottom: 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, HDMI 1.4b, Ethernet extension connector, headphone / microphone combo jack, microSD card reader, security keyhole

Monitor cable (optional)
- USB-C to VGA:
  - Lenovo USB-C to VGA Adapter
- USB-C to HDMI:
  - Lenovo USB-C to HDMI Adapter
- USB-C to RJ45:
  - Lenovo USB-C to Ethernet Adapter
- USB-C to USB-A:
  - Lenovo USB-C to USB-A Adapter
- USB-C to USB-C:
  - Lenovo USB-C to USB-C Cable 2M

Adapter cable (optional)
- Lenovo USB-C to Ethernet Adapter

Camera
- 720p:
  - HD720p resolution, low light sensitive, fixed focus
- IR & 720p:
  - IR camera and HD720p camera, fixed focus (black model only)
  - World facing: 5MP resolution, auto focus
  - IR & World facing: 5MP resolution, auto focus
  - (mutually exclusive with fingerprint reader)

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

Audio
- Premium / stereo speakers,
- Internal microphone, external microphone

Keyboard
- 6-row, spill-resistant, multimedia Fn keys, optional LED backlight
- TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch
- UltraNav™
  - KeyDee™
  - Most keys: 6-year warranty
  - Fingerprint reader: Limited warranty
- Security chip
  - Secure Boot
  - Discrete TPM 2.0, TCG Certified
  - None

Security
- Power-on password, hard disk password, supervisor password, security keyhole
- Security lock slot
- Security keyhole
- Security slot

Fingerprint reader
- Optional: Touch style fingerprint reader on the palm rest (mutually exclusive with World facing camera)

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
- Integrated Li-Ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- with 65W USB Type-C AC adapter
- MobileMark 2014: 12.17 hrs
- * 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

Environment
- ENERGY STAR 7.0; RoHS-compliant
<table>
<thead>
<tr>
<th>Model</th>
<th>Region</th>
<th>Country</th>
<th>Processor</th>
<th>vPro</th>
<th>Graphics</th>
<th>Memory</th>
<th>Display</th>
<th>Storage (HDD/SSD)</th>
<th>Optical</th>
<th>WLAN + Bluetooth</th>
<th>Bundled Accessories</th>
<th>Camera (Front/World Facing)</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>
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### Processor Specifications

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<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
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<td>Intel HD Graphics 620</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@60 Hz (USB Type-C); 4096x2160@24 Hz (HDMI)

**Chipset Memory**
- Intel SoC (System on Chip) platform
- 8GB or 16GB max / 1866MHz LPDDR3 / soldered to system board, no sockets
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)
- 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)

**Display**
- 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
- Some: 14.0" (355mm) QWHD (2560x1440), glossy, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle, IPS
- Multi-touch / Capacitive-type multi-touch, AR (anti-reflection), AS (anti-smudge), supports 10-finger gesture
- OLED panel: OCTA, AS (anti-smudge), supports 10-finger gesture
- Yoga hinge, 360-degree
- Display cover: Carbon-Fiber Hybrid
- Case material: Magnesium-PPS hybrid
- Starting at 2.99 lb (1.36kg) for OLED model; 3.13 lb (1.42kg) for other model
- Dimension (L x W x H): 13.11" x 9.02" x 0.67" (WxDxH); 333mm x 229mm x 17.05mm
- Dimension (L x W x H): 13.11" x 9.02" x 0.69" (WxDxH); 333mm x 229mm x 17.4mm
- Weight: Starting at 2.99 lb (1.36kg) for OLED model; 3.13 lb (1.42kg) for other model
- Case color: Black or silver
- Display cover: Carbon Fiber Hybrid
- Bottom: Magnesium-PPS hybrid

**WLAN**
- 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
- WiGig adapter is only available in selected countries

**WWAN**
- Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455)
- SIM card: Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card

**Security**
- Security chip: I5-7300U 2.6 GHz 3.5 GHz 3MB
- Security chip: I5-7500U 2.7 GHz 3.5 GHz 4MB
- Security chip: I7-7600U 2.8 GHz 3.9 GHz 4MB

**Power**
- Battery type: Li-Polymer 4-cell (56Wh)
- Battery life: MobileMark® 2014: 15.5 hr
- RapidCharge: Charge to 100% Not support 2.8 hr
- RapidCharge: Charge to 80% Not support 1.0 hr
- RapidCharge: Charge to 100% Not support 2.8 hr

**Audio**
- HD Audio, Conexant® CX11771 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

**Security chip**
- Security chip: I5-7300U 2.6 GHz 3.5 GHz 3MB
- Security chip: I5-7500U 2.7 GHz 3.5 GHz 4MB
- Security chip: I7-7600U 2.8 GHz 3.9 GHz 4MB

**Wireless**
- Intel Tri-Band Wireless-AC 18265, WiGig™ 802.11ad + Wi-Fi 2x2, 802.11ac + BT4.1, M.2 Card

**WLAN**
- 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

**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

**Miscellaneous**
- MIL-Spec Test: 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>
<th>Adapter Color</th>
<th>Camera</th>
<th>Keyboard</th>
<th>Finger-print Reader</th>
<th>NFC</th>
<th>Power Adapter</th>
<th>Operating System</th>
<th>Warranty</th>
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<td>i5-7300U</td>
<td>vPro</td>
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<td>10-point Multi-touch</td>
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# ThinkPad X1 Yoga (3rd Gen) Platform Specifications

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## Graphics

Intel UHD Graphics 620 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

## 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)

ThinkPad Pen Pro, active pen for multi-touch display, on-board rechargeable

## 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 WGI219-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

**Note**: 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

## Bluetooth™

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

**Note**: 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 3.03 lb (1.4kg)

## Case color

Black or silver

## Case material

**Display cover**: Carbon-Fiber and Glass-Fiber hybrid; **Bottom**: magnesium-PPS hybrid

## Environment

EPEAT™ Gold, ENERGY STAR®; RoHS-compliant

## 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, HDMI 1.4, Ethernet extension connector, nano-SIM card slot (WWAN models), headphone / microphone combo jack, microSD card reader

## WiGig dock

None

## 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

## Camera (optional)

One of the following, configurable by model: 270p: HD720p camera with ThinkShutter camera privacy, fixed focus; IR & 720p: IR camera and HD720p camera, fixed focus

## 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 Fn keys, LED backlight

## Security

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

## Security chip vPro (optional)

Discrete TPM 2.0 TCG Certified

## Fingerprint reader

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

MobileMark®: 14.5 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

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<td>Intel UHD Graphics 620</td>
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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

- Intel SoC (System on Chip) platform
- 8GB or 16GB / 2400MHz DDR4 / soldered to system board, 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-touch multi-touch, AR (anti-reflection), AS (anti-smudge), supports 10-finger gesture

### Multi-touch

- Yoga hinge, 360 degree

### Hinge

- Convert-mode Pen: Laptop, tent, stand, yoga and tablet
- ThinkPad Pen Pro, active pen for multi-touch display, on-board rechargeable

### 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

### Optical

- 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 XMM™ 7262 (Fibocom L850-EB); M.2 card (EMEA only)

### SIM card (optional)

- Nano-SIM card slot

---

**Dimensions**

- WxDxH: 12.34" x 8.75" x 0.72"; 313.5mm x 222.2mm x 18.2mm

**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

**Ports**

- 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

**WiGig dock**

- None

**Monitor cable (optional)**

- USB-C to VGA: Lenovo USB-C to VGA Plus Power Adapter
- USB-C to DP: Lenovo USB-C to DisplayPort Adapter
- HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter

**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
- TrackPoint® pointing device and 3+2 buttons Mylan surface multi-touch click pad

**Security**

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

**Battery**

- Li-Ion 51Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

**Max battery life**

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

**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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*Graphics Intel HD Graphics, Intel HD Graphics 510, or Intel HD Graphics 520 in processor, supports dual independent display; Max resolution: 1920X1080 (HDMI™); supports external digital monitor via HDMI™;

### 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 Drive
- 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
- Lenovo Windows keyboard, 6-row, multimedia Fn keys

### UltraNav™
- Buttonless touchpad below keyboard, multi-touch

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

### Security chip
- Trusted Platform Module, TCG 1.2-compliant

### Fingerprint 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
<table>
<thead>
<tr>
<th>Model</th>
<th>Region</th>
<th>Processor</th>
<th>Graphics</th>
<th>Memory</th>
<th>Display</th>
<th>Storage</th>
<th>Optical</th>
<th>WLAN + Bluetooth</th>
<th>Color</th>
<th>Camera</th>
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<th>Battery</th>
<th>Power Adapter</th>
<th>Operating System</th>
<th>Warranty</th>
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### ThinkPad Yoga 11e (4th Gen) Platform Specifications

**Processor**
- **Processor Numbers**: Intel® Celeron® processor, or 7th Generation Intel Core™ i3 / i5 Processor
- **Number of Cores**: Cel N3450: 4, i3-7100U: 2
- **Base Frequency**: Cel N3450: 4.1 GHz, i3-7100U: 2.4 GHz
- **Cache**: Cel N3450: 2MB, i3-7100U: 3MB
- **Processor Graphics**: Intel HD graphics 500, Intel HD graphics 620

**Graphics**
- Intel HD Graphics 500, or Intel HD Graphics 620 in processor, supports external digital monitor via HDMI™; supports dual independent display.
- Max resolution: 1920x1080 (HDMI) @30Hz

**Chipset and Memory**
- **Chipset**: Intel SoC (System on Chip) platform
- **Memory**: 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**
- Yes, support 10 fingers

**Convertible mode**
- Yoga hinge, 360 degree

**Storage**
- 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 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**
- 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, Bottom: Graphite Black

**Battery**
- 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**
- MIL-STD-810G military certification

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

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**Lenovo**

*July 2017*
<table>
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<th>Model</th>
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<th>Display</th>
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<th>Pen</th>
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<th>Operating System</th>
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<td>No 03/17</td>
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<td>No 03/17</td>
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## ThinkPad Yoga 11e (5th Gen) Platform Specifications

### Processor

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<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>
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<td>1.2 GHz</td>
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<td>Cel N4100</td>
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<tr>
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<td>2.7 GHz</td>
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<td>Intel UHD Graphics 605</td>
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</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

### Memory

4GB or 8GB / 1866MHz LPDDR3 or 2400MHz DDR4 / soldered to systemboard, no sockets

### Display

- 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
- Pen: Some: Active pen, batteries required, on-board garage

### Storage

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

### Optical

None

### Ethernet

Realtek RTL8111GUS-CG Gigabit Network Connection

### WLAN

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

### WWAN

None

### Dimensions

Wx Dx H: 11.81" x 8.27" x 0.89"; 300mm x 210mm x 22.5mm

### Weight

From 3.4 lb (1.54kg)

### 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, HDMI1.4, Ethernet (RJ-45), headphone / microphone combo jack, microSD card reader, security keyhole

### Control buttons

- Power button, volume control button

### Camera

One of the following, configurable by model:
- 720p: HD720p resolution, low light sensitive, fixed focus
- World facing: Rear camera, 5MP resolution, auto focus

### Audio support

HD Audio, Realtek ALC3287 codec Dolby Audio / stereo speakers, 2W x 2 / monaural microphone, headphone / microphone combo jack

### Keyboard

6-row, multimedia Fn keys

### UltraNav™

Two buttons click pad below keyboard, multi-touch

### Security

- Power-on password, hard disk password, supervisor password, security keyhole
- Security chip: Discrete TPM 2.0, TCG Certified
- vPro: None
- Fingerprint reader: None

### Battery

Integrated Li-Ion 42Wh battery

### Max battery life

MobileMark® 2014: 12 hr

### AC adapter

45W or 65W slim tip AC adapter

### 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 depot repair service

### MIL-Spec test

MIL-STD-810G military certification

### Environment

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

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February 2018
<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>Fingerprint Reader</th>
<th>Battery (internal)</th>
<th>Power Adapter</th>
<th>Operating System</th>
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<td>Pentium Silver N5000</td>
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## ThinkPad Yoga 11e Chromebook (3rd Gen) Platform Specifications

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<th>Processor</th>
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<tr>
<td><strong>Processor</strong></td>
<td>Intel® Celeron® processor</td>
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<td><strong># of Threads</strong></td>
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<td><strong>Processor Graphics</strong></td>
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</table>

| Graphics | Intel HD Graphics 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 or 4GB / 1600MHz LPDDR3 / soldered to systemboard, no sockets |

| Display | 11.6" (295mm) HD (1366x768), glare, LED backlight, IPS 200 nits, 16:9 aspect ratio, 800:1 contrast ratio |
| Hinge | Yoga hinge, 360 degree Convertible mode: Laptop, tent, stand and tablet |
| Pen | None |
| Storage | 16GB eMMC (embedded Multi Media Card) flash memory on board |
| Optical | None |
| Ethernet | None |
| WLAN® | 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 |

| Dimensions³ | WxDxH: 11.81" x 8.27" x 0.88"; 300mm x 210mm x 22.3mm |
| Weight² | from 3.3 lb (1.50kg) |
| 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 (one Always On), HDMI |
| Control buttons | Power button, volume control button |
| Camera | HD720p resolution, low light sensitive, fixed focus |
| Audio support | Realtek® ALC5650 codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/microphone jack |
| Keyboard UltraNav™ | ThinkPad Chrome keyboard, 6-row, multimedia Fn keys |
| | Buttonless touchpad below keyboard, multi-touch |
| Security | Security keyhole Security chip: Trusted Platform Module, TCG 1.2-compliant Fingerprint reader: None |
| Battery | Integrated Lithium Polymer 3-cell (42Wh) |
| Max battery life¹⁰ | Up to 12 h |
| AC adapter | 45-watt AC adapter |
| Preload | Google Chrome OS |
| Limited warranty¹¹ | 1-year depot repair service |
| MIL-Spec test | MIL-STD-810G military certification |

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

Lenovo
July 2017
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<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>
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<th>WLAN + Bluetooth</th>
<th>Color</th>
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<th>Pen</th>
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## Processor

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<th># of Threads</th>
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## Graphics

Intel HD Graphics 500 in processor

## Chipset

Intel SoC (System on Chip) platform

## Memory

4GB or 8GB 3200MHz LPDDR4 / soldered to system board, 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

## Ethernet

None

## WLAN

11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card

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

## Bluetooth™

None

## 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

## Power-on password

None

## Hard disk password

None

## Supervisor password

None

## Security keyhole

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

HD Audio, DA7219 codec / stereo speakers, 2W x 2 / monaural microphone, combo audio/microphone jack

## 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

## UltrNav™

Two buttons click pad below keyboard, multi-touch

## Security chip

None

## vPro

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

## Power adapter

45-watt USB Type-C adapter

## Lenovo

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<th>Region</th>
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<th>Pen</th>
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ThinkPad Yoga 370 Platform Specifications

Product Specifications Reference (PSREF)

Processor 7th Generation Intel® Core™ i3 / i5 / i7 Processor

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<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
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</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 Memory 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

Display 13.3" (337.8mm) FHD (1920x1080), glossy, LED backlight, 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 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)

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 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):

- 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

* WiGig adapter is only available in selected countries

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)

Integrated Mobile Broadband 4G LTE-A, Qualcomm Snapdragon™ X7 LTE-A (Sierra Wireless EM7455)

*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

Smart card reader Media reader

Ports Optional: Smart card reader (mutually exclusive with NFC)

One microSD card slot (microSD, microSDHC, microSDXC), UHS-I

Two USB 3.1 Gen 1 (USB 3.0, one Always On), USB 3.1 Type-C Gen 2 / Thunderbolt 3, HDMI 1.4b, Ethernet extension connector

Optional: ThinkPad WiGig dock

WiGig dock Monitor cable (optional)

USB-C to VGA: Lenovo USB C to VGA Plus Power Adapter

USB-C to DP: Lenovo USB-C to DisplayPort Adapter

HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter

Camera HD720p resolution, fixed focus

Audio support HD Audio, Conexant® CX11771 codec, Dolby DAX11 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone 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

Security chip Intel vPro Technology

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

NFC (optional) Near Field Communication (mutually exclusive with smart card reader)

Battery Li-Polymer 4-cell (51Wh) battery

Max battery life 12.5 hr

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

Light sensor Ambient Light Sensor

G-sensor/ eCompass 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

Lenovo August 2017
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<th>Model</th>
<th>Region</th>
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<th>vPro</th>
<th>Graphics</th>
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<th>Adapter/Color/Pen</th>
<th>Fingerprint Reader</th>
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<th>dTPM</th>
<th>TPM</th>
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Limited warranty: Support unrelated to a warranty issue may be subject to additional charges.

Lenovo Services:

**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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<th>Page</th>
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<td><strong>ThinkCentre Tiny-In-One 27</strong></td>
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<td><strong>Legal Information</strong></td>
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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

<table>
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<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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<td>8 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
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</tbody>
</table>

### Memory

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

### Storage

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

### Optical

- 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, 550 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
- Controls
  - Physical buttons for Microphone mute, brightness up/down, and power on/off

### Chipset

- Intel B250 Chipset

### Rear ports

- Four USB 3.1 Gen1, ethernet (RJ-45), DisplayPort, optional serial (9-pin), Two USB 3.1 Gen1 (one is Always On and fast charge), optional card reader, one headphone / microphone combo jack (3.5mm)
- M.2 card slot
  - * Depending on many factors, actual data transfer speed may be lower than theoretical speed
  - Two M.2 Card slots (one for WLAN, one for SSD/Optane)

### Audio support

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

### WLAN

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

### Bluetooth

- Gigabit ethernet, Realtek RTL8111G, Wake on LAN®

### Manageability

- None

### Security chip

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

### Security features

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

### Mechanical

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

### Dimensions (WxDxH)

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<td></td>
<td>353 x 45 x 363 (mm)</td>
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<td>With Basic</td>
<td>21.1 x 9.6 x 17.0 (inch); (Non-touch) 12.8 / 5.8</td>
<td>Tilt: 45° back, -5° forward</td>
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<td>Monitor stand:</td>
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<tr>
<td>With UltraFlex II</td>
<td>21.1 x 10.0 x 19.3 (inch); (Non-touch) 18.3 / 8.3</td>
<td>Tilt: 61° back, -5° forward; Lift: 110mm; Swivel: +/-45°</td>
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<td>II stand:</td>
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### Power supply

- 150 watts, autosensing, 85% PSU

### Limited warranty

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

### Preload

- Preloaded operating system
  - Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
  - Some: Windows 10 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
  - ThinkVantage System Update
  - Create Recovery Media
  - Adobe® Reader® 11
  - Cyberlink PowerDVD Create (DVD±RW)

### Environment

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

### MIL-SPEC test

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

### Accessories

- For compatible accessories, please go to [http://www.lenovoquickpick.com](http://www.lenovoquickpick.com)
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<th>Region</th>
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<th>Graphics</th>
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<th>Camera Intrusion Switch</th>
<th>Chassis Type</th>
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**Processor**

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<th>Cache</th>
<th>Memory Support (Up to)</th>
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<td>HD Graphics 610/630</td>
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<td>HD Graphics 630</td>
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**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
- 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

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

**Dimensions (WxDxH)**
<table>
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<tr>
<th>Without Stand (No camera)</th>
<th>With Full Function Monitor stand (No camera)</th>
<th>With UltraFlex III stand (No camera)</th>
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<tbody>
<tr>
<td>19.3 X 1.9 X 13.5 (inch)</td>
<td>491 X 49 X 342 (mm)</td>
<td>(Non-touch) 11.6 / 5.25 (Non-touch) 11.1 / 5.05</td>
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<tr>
<td>19.3 X 9.9 X 14.8 to 19.1 (inch)</td>
<td>491 X 252 X 377 to 486 (mm)</td>
<td>(Non-touch) 15.8 / 7.18</td>
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<tr>
<td>19.3 X 9.9 X 16.4 (highest) (inch)</td>
<td>491 X 252 X 416 (highest) (mm)</td>
<td>(Touch) 17.3 / 7.85 (Non-touch) 16.9 / 7.65</td>
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**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 Backup
  - 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

**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 4.2/5.0 wireless, integrated in Wi-Fi + BT combo adapter

**Note:** The specifications above may not be available in all regions.
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<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>
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## ThinkCentre M820z AIO - TopSeller - 10SC - 2 of 2

**Product Specifications Reference (PSREF)**

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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-ROM SATA 1.5GB/s Drive, slim (9.5mm)
- 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 530/630 in processor, uses main memory, DirectX 12, external monitor support via DisplayPort**, 23.8" (60.45mm) **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)

## Display

Multi-touch Camera

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

Camera Optional 1080p camera, fixed focus, with dual microphone, LED indicator, physical switch on/off

## Controls

Physical buttons 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
- * Denotes only on many factors, actual data transfer speed may be lower than theoretical speed
- Two M.2 Card slots (one for WLAN, one for SSD/Opaine)

## Audio support

High Definition (HD) Audio, Realtek ALC233 / 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

## Bluetooth

11ac wireless, 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, 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 Wireless Keyboard (2.4GHz via USB receiver), black
Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

## Mechanical

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

## Power supply

150 watts, autosensing, 85% PSU

## Limited warranty

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

## Preload

Preloaded operating system

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

Preloaded applications (only some listed)

- Microsoft Office preload; purchase a product key to activate
- Only for Window 10
- Lenovo Companion
- Only for Window 7
- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- ThinkVantage System Update
- Create Recovery Media
- Adobe® Reader
- Cyberlink PowerDVD Create (DVD+RW)

## Environment

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

## MIL-SPEC test

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

## Accessories

For compatible accessories, please go to http://www.lenovoquickpick.com
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<td>Core i5-8600 6 / 6 3.1G / 4.3G 9 MB DDR4-2400 UHD 610</td>
</tr>
<tr>
<td></td>
<td>Core i7-8700 6 / 12 3.2G / 4.6G 12 MB DDR4-2400 UHD 610</td>
</tr>
</tbody>
</table>

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

| Storage | Some: Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm, supports up to two HDDS (2nd HDD occupies Odd bay), RAID0/1 support (RAID preset only available via special bid model) |
|         | Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" |
|         | Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s * 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s |
|         | Some: Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2 heavenly SATA SSD 256GB Drive, slim (9.0mm) |
|         | Some: DVD Burner (DVD-RW), SATA 1.5Gb/s Drive, slim (9.0mm) |
|         | Optional 3-in-1 media card reader |

| Graphics | Intel HD Graphics 610/630 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™ |
| Display  | Max resolution: 4096x2304 (DP) @60Hz, 1920x1080 (Panel) @60Hz |
|          | Full HD 1080p (1920x1080) TFT color, Borderless design, WVA panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, support Low Blue Light Mode, work as standalone monitor via DisplayPort (DP in / out combo) |
| Multi-touch | Optional multi-touch, supports 10-point, AIT (Advanced In-cell Touch) technology |
| Camera   | Some: 1080p camera, with dual microphone, LED indicator, physical switch on/off, supports multi-degree rotation (horizontal 0° to 180°, vertical -25° to 25°) |
|          | Some: RGBIR camera, 1080p, with dual microphone, physical switch on/off, supports multi-degree rotation (horizontal 0° to 180°, vertical -25° to 25°) |
|          | Windows Hello support, only available via special bid models |

| Controls | Buttons physical on side for microphone mute and power on/off |

| Chipset | Intel Q370 Chipset |

| Rear ports | Four USB 3.1 Gen1 (one supports Smart Power On), one ethernet (RJ-45), one DisplayPort in/out combo port, one optional card reader (9-pin) |
| Side ports | One USB 3.1 Gen2 (one is Always On and fast charge), one USB 3.1 Gen1, 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 | 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™ |

| Manageability | Intel Active Management Technology 12.0 (Intel AMT 12.0): Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection) |
| Security chip | Discrete TPM 2.0, TCG Certified |

## Security features |
- Security slot (in rear for attachment of optional Kensington® MicroSaver™ cable)
- 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 Fingerprint Mouse (USB connector), Windows Hello support, black

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

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

## Dimensions (WxDxH) |

<table>
<thead>
<tr>
<th>Max weight (lb / kg)</th>
<th>9 MB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base/Max(GHz)</td>
<td>3.1G</td>
</tr>
<tr>
<td>Max resolution</td>
<td>4 MB</td>
</tr>
<tr>
<td>Frequency</td>
<td>9 MB</td>
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<tr>
<td>Cache</td>
<td>3.2G</td>
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<tr>
<td>Memory Support</td>
<td>2 GB</td>
</tr>
<tr>
<td>Graphics</td>
<td>2 MB</td>
</tr>
</tbody>
</table>

| 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 selections)
- 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, 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.
<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>Keyboard / Mouse</th>
<th>Power Supply</th>
<th>Operating System</th>
<th>TUV Low Noise</th>
<th>Warranty</th>
<th>End of Support</th>
<th>Ann Date (m/y)</th>
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</table>
### ThinkCentre M600 Tiny Platform Specifications

#### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency (Base/Max)</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Celeron N3050</td>
<td>2 / 2</td>
<td>1.6 / 2.16 GHz</td>
<td>2MB</td>
<td>DDR3L-1600</td>
<td>Intel HD</td>
</tr>
<tr>
<td>Celeron N3060</td>
<td>2 / 2</td>
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<td>2MB</td>
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<td>Intel HD 400</td>
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<td>Pentium N3700</td>
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<td>1.6 / 2.4 GHz</td>
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<td>DDR3L-1600</td>
<td>Intel HD</td>
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</table>

#### Chipset

Intel HD Graphics 400, 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 displays.

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

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-polarity, one 204-pin SO-DIMM socket

#### Storage

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

#### Optical

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

#### Monitor cable

2MB

#### Monitor

13.3" X 7.30" X 2.16"

#### Audio support

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

#### Preload

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

Preloaded applications (only some listed)
- Desktop Power Manager
- Lenovo Solution Center
- Lenovo REACHit
- Lenovo SHAREit
- Lenovo Bluetooth Lock
- McAfee® LiveSafe™ (30-day trial)
- Microsoft Office preloaded: purchase a product key to activate

PowerDVD Create (DVD±RW)

Lenovo ThinkVantage Tools
- Only for Windows 10
- Lenovo Companion (Win10)
- Cyberlink PowerDVD (DVD, DVD±RW)
- Lenovo QuickOptimizer
- Only for Windows 7
- Rescue and Recovery
- Password Manager
- ThinkVantage System Update
- Lenovo Message Center Plus

Adobe® Reader®

#### Environment

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

#### Power supply

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

#### Limited warranty

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

#### Mechanical

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

#### Dimensions (WxOxH)

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions (WxOxH)</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” (179mm X 182.9mm X 34.5mm)</td>
<td>3.81 lb (1.72 kg)</td>
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<tr>
<td>M600 Tiny (1L) with VESA mount &amp; ODD box</td>
<td>7.42” X 7.30” X 2.48” (188.4mm X 185.38mm X 63mm)</td>
<td>4.12 lb (1.87 kg)</td>
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<td>M600 Tiny (1L) with VESA mount &amp; I/O box</td>
<td>7.42” X 7.30” X 2.62” (188.4mm X 185.38mm X 66.6mm)</td>
<td>4.12 lb (1.87 kg)</td>
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#### Power

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

#### VESA mount

Floor Stand

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

#### Accessories

For compatible accessories, please go to TC-AQP sheet

#### Security features

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

#### Manageability

None

#### Security chip

Trusted Platform Module, TCG 1.2-compliant

#### Keyboard

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

#### Mouse

Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black

#### Bluetooth

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

#### Ethernet

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

#### Modem

None

#### Manageability chip

None

#### Security chip

Trusted Platform Module, TCG 1.2-compliant

#### Environment

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

#### Accessories

For compatible accessories, please go to TC-AQP sheet

Lenovo, November 2017
<table>
<thead>
<tr>
<th>Model</th>
<th>Region</th>
<th>Case 1L/2L</th>
<th>Processor</th>
<th>vPro</th>
<th>Graphics</th>
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<th>WLAN + Bluetooth</th>
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<th>Kensington Cable Lock</th>
<th>Speaker</th>
<th>Adapter Cage</th>
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<th>VESA Mount</th>
<th>Power Supply</th>
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# ThinkCentre M600 Tiny Thin Client Platform Specifications

Product Specifications Reference (PSREF)

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<th>Intel® Celeron® Processor N3000 Series or Intel Pentium® Processor N3000 Series</th>
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<td>Celeron N3010</td>
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| Chipset | Intel Architecture (IA) SoC that integrates Intel processor core, graphics, memory controller, and I/O interfaces into a single system-on-chip solution |

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

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

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

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

| Optical | None |

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

| Media reader | None |

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

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

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

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

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

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

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

| Modem | None |

| Manageability | None |

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

| Security features | • Security slot (in rear for optional Kensington® MicroSaver® cable) |

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

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

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

| Environment | Windows 10 IoT Enterprise |

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

| 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 |

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

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

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

Lenovo, November 2017
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### ThinkCentre M625 Tiny Platform Specifications

**Processor**
- **APU**
  - A9-9420e
  - Cores: 2
  - Frequency Base/Max: 1.8 / 2.7 GHz
  - L2 Cache: 1 MB
  - Memory Types: DDR4-1866
  - Integrated Graphics: Radeon RS Series

**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
- One SATA 6.0Gb/s connector on planar

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

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

**Chipset**
- AMD SoC platform

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

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

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

**Audio support**
- High Definition (HD) Audio

**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 Win 10 earlier version only support Bluetooth 4.1

**Ethernet**
- Gigabit ethernet, Realtek RTL8111H/N, Wake on LAN

**Manageability**
- None

**Security chip**
- None

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

**Keyboard**
- Some: Full-size USB Keyboard (USB connector), black, Lenovo logo

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

**Mechanical**
- Tiny (1L), black color; metal case
- Toolless chassis open (for models with optional toolless chassis screw)
- Toolless HDD, SSD, memory, Wi-Fi removal
- Optional dust filter
- M625 Tiny only:
  - 7.05" W X 7.20" D X 1.36" H
  - 179mm W X 182.9mm D X 34.5mm H
  - 2.9 lb (1.3 kg), weight may vary by configuration

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

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

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

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

**Preload**
- **Preloaded operating system**
  - Some: Windows® 10 Pro 64-bit
  - Some: Windows 7 Professional 64 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), EnP 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 M625 Tiny Thin Client Platform Specifications

#### Product Specifications Reference (PSREF)

- **Processor**: AMD E2 series APU
  - **APU Cores**: 2, **Frequency Base/Max**: 1.5 / 2.0 GHz, **L2 Cache**: 1 MB, **Memory Types**: DDR4-1866, **Integrated Graphics**: Radeon R2 Series

- **Memory**: 8GB max, DDR4-1866, one 260-pin SO-DIMM socket

- **Discrete**: Some, **Solid State Drive (SSD)** / SATA interface

- **Optical Onboard SATA Media reader**: None

- **Graphics**: AMD Radeon™ Graphics in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional port (VGA or USB 2.0 Type-C with DisplayPort Alternate Mode), supports up to 2 independent displays
  - **Max resolution**: 3840x2160 (USB 2.0 Type-C)@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**: High Definition (HD) Audio, Realtek ALC233-VB2-CG / internal speaker (1.5 watt)

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

- **WLAN**: Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 1x1
  - Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 1x1
  - Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 2x2
  - Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 2x2

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

- **Ethernet**: Gigabit ethernet, Realtek RTL8111HIN, Wake on LAN™

- **Manageability**: None

- **Security chip**
  - **Security features**: None
  - **Secure boot**: 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

- **Mechanical**: Tiny (1L), fan-less design, black color, metal case

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

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

- **Preloaded operating system**: Windows Embedded Standard 7 V2 (WES 7 V2)

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

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

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

Lenovo, May 2018
ThinkCentre M630e Tiny Platform Specifications

Product Specifications Reference (PSREF)

Processor

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<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency Base/Max(GHz)</th>
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<th>Memory Support (Up to)</th>
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Memory

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

Storage

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

Onboard SATA

One onboard SATA 6.0Gb/s connector

Graphics

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

Monitor cable

Optional DP to VGA dongle or DP to HDMI 1.4 dongle

Chipset

Intel SoC (System on Chip) platform

Front ports* (Std.)

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

Rear ports* (Std.)

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

Rear ports* (Opt.)

None

Audio support

Realtek ALC233VB / internal speaker (1.5 watt)

WLAN

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

Bluetooth

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

Ethernet

Gigabit ethernet, Realtek RTL8111HN-CG

Ethernet (Opt.)

None

Manageability

Security chip

None

Security features

Firmware TPM 2.0, integrated in chipset

Booting

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

Keyboard Mouse

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

Mechanical

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

Dimensions (WxDxH) Weight (Approx.)

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

Preload

Preloaded operating system

Some: Windows® 10 Pro 64-bit

Preloaded applications (only some listed)

- Lenovo Vantage
- Microsoft Office preloaded;
  purchase a product key to activate
- LinkedIn
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices

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

Product Specifications Reference (PSREF)

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

<table>
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<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency Base/Max(GHz)</th>
<th>Cache</th>
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<td>HD 630</td>
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</table>

Memory 64GB max, UDIMM, DDR4-2400, 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 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2

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

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

Graphics Intel 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;

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

Chipset Intel B250 Chipset

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

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

Rear audio ports* Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm) None

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

WLAN® Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1 Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

Bluetooth® 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

Ethernet Modem Some: Bluetooth 4.1 wireless, integrated in Wi-Fi + BT combo adapter, Gigabit ethernet, Realtek RTL8111GN, Wake on LAN

Manageability None

Security chip None

.pdf Lenovo, June 2017
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<th>vPro</th>
<th>Graphics</th>
<th>Monitor Cable</th>
<th>Memory</th>
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<th>Speaker</th>
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**ThinkCentre M710 Tiny Platform Specifications**

**Product Specifications Reference (PSREF)**

### Processor

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<th>Cache</th>
<th>Memory Support (Up to)</th>
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### Memory

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

### Storage

- Some: Hard Drive / SATA 6.0Gb/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), 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 510/530/610/630 in processor, uses main memory, DirectX12, 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

- Core i3/i5/i7: 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

### 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

### Audio support

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

### Bluetooth™

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

### Ethernet Modem

- Gigabit ethernet, Intel Ethernet Connection 8259-V (Jacksonville), Wake on LAN™

### Manageability

- None

### Security chip

- None
- TPM (Trusted Platform Module) 2.0*, TCG Certified
- * Downgrade to TPM1.2 for the models with Win10 DG Win7 32 OS

### Security features

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

### Keyboard

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

### Mouse

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

### Mechanical

- VESA mount

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

### Limited warranty

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

### Preload

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

### Preloaded applications (only some listed)

- Microsoft Office preloaded;
- purchase a product key to activate
- * Only for Window 10
- * Lenovo Companion
- * Only for Window 7
- * Lenovo Solution Center
- * Lenovo ThinkVantage Tools
- * Create Recovery Media
- * Adobe Reader
- * Lenovo WebPowersaver (PowerDVD Create (DVD+RW))

### Environment

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

### MIL-SPEC test


### Accessories

- For compatible accessories, please go to http://www.lenovoquickpick.com
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<th>I/O Box</th>
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<th>Kensington Lock</th>
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Processor | Intel® Celeron®, Intel Pentium®, or 6/7th Generation Intel Core™ i3 / i5 / i7 Processor
---|---
Processor | Intel Celeron® or Intel Pentium®
Cores / Threads | 2 / 2
Frequency | 3.5G
Cache | 3 MB DDR4-2133 HD 510
Memory Support (Up to) | Integrated Graphics
Pentium G4400 | DDR4-2133
Pentium G4560 | DDR4-2400 HD 610
Pentium G4600 | DDR4-2400 HD 630
Core i3-6100 | DDR4-2133 HD 590
Core i3-6500 | DDR4-2133 HD 550
Core i7-6700 | DDR4-2400 HD 630
Core i3-7100 | DDR4-2400 HD 630
Core i5-7400 | DDR4-2400 HD 630
Core i5-7500 | DDR4-2400 HD 630
Core i7-7700 | DDR4-2400 HD 630

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

Storage | Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" or 3.5"
Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2
Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)
Optical | Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)
Onboard SATA | Three onboard SATA 6.0Gb/s connectors
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 displays, works along with discrete graphics to support more displays;
Max resolution: 4096x2304 (DP) @60Hz; 2048x1536 (VGA) @50Hz
Some: NVIDIA GeForce® GT 730, DirectX 12, 2GB, PCIe 2.0 x8 adapter,
two DisplayPort, 35 watts;
Max resolution: 3840x2160 (DisplayPort) @60Hz;
Some: AMD Radeon™ R7 370, DirectX 11, 2GB, PCIe 3.0 x8 adapter,
one VGA, one HDMI, 75 watts, occupies two slots;
Max resolution: 4096x2160 (HDMI) @24Hz, 2048x1536 (VGA) @85Hz
Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

Monitor Cable | Intel B250 Chipset
Front ports* | Four USB 3.1 Gen1, optional two USB 3.1 Type-C Gen 2 (only available via special bid), microphone (3.5mm), headphone (3.5mm)
Rear ports* | Two USB 3.1 Gen1, two USB 2.0, optional two USB 3.0 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 1394a
Audio support | High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt )

WLAN™ | Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Bluetooth™ | Some: Bluetooth 4.1 wireless, integrated in Wi-Fi + BT combo adapter
Ethernet | Gigabit ethernet, Realtek RTL8111GN, Wake on LAN™
Modem | None

Manageability | None
Security chip | TPM (Trusted Platform Module) 2.0, TCG Certified
* Downgrade to TPM1.2 for the models with Win10 DG Win7 32 OS
Security features | • Security slot (in rear for 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 Calliope Mouse (USB connector), black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Mouse | None

Mechanical | • Tower (15L), black color, metal case
• (Wx(DxH)) 5.7" X 11.5" X 14.4"; 145mm X 292.7mm X 366mm
• Approx. 14.3 lb (6.5 kg), weight may vary by configuration
• Optional dust filter
Bay 1: Slim external ODD bay
Bay 2: 3.5", 1" high, internal, HDD/SSD
Bay 3: 3.5", 1" high, internal, HDD/SSD
Slot 1: half-length full-height (length < 189mm, height < 104mm), PCIe 3.0 x16
Slot 2: half-length full-height (length < 189mm, height < 104mm), PCIe 3.0 x1
Slot 3: half-length full-height (length < 189mm, height < 104mm), PCIe 3.0 x1
Slot 4: no slot, no bracket for optional port extension
M.2 cards slots: Two (one for WLAN, one for SSD/Option)
* 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, 85% PSU
Some: 210 watts, autosensing, 92% PSU (only available via special bid)

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

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

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, June 2017
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<td>Media Reader</td>
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# ThinkCentre M710e SFF Platform Specifications

## Processor

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<th>Frequency Base/Max(GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
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## Memory

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

## Storage

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

## Optical

- Onboard SATA 6.0Gb/s connectors
- Media reader

## Graphics

- Intel HD Graphics 510/530/610/630 in processor, uses main memory, DirectX® 12, one VGA, one DisplayPort™, supports 2 independent displays, works along with discrete graphics to support more displays;  
  - Max resolution: 4096x2160 (DP) @ 60Hz; 1920x1200 (VGA) @ 60Hz
  - Some: NVIDIA Geforce® GT 730, DirectX 12, 2GB, PCIe 2.0 x8 adapter, two DisplayPort, 35 watts;  
  - Max resolution: 3840x2160 (DisplayPort) @ 60Hz

## Monitor cable

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

## Chipset

- Intel B250 Chipset

## Front ports

- Two USB 3.1 Gen1, microphone (3.5mm), one headphone / microphone combo jack (3.5mm)

## Rear ports

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

## Rear audio ports

- Line-out jack (3.5mm)

## IEEE 1394

- None
  - * Depending on many factors, actual data transfer speed may be lower than theoretical speed

## Audio support

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

## WLAN

- None

## Bluetooth

- None

## Ethernet

- Gigabit ethernet, Realtek RTL8111HN, Wake on LAN®

## Modem

- None

## Manageability

- None

## Security chip

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

## Mechanical

- Bay 1: Slim external ODD bay  
  - Bay 2: 3.5" 1" high, internal, supports 2.5" or 3.5" HDD/SSD (2.5 to 3.5 bracket comes with disk)
  - Slot 1: low-profile (length < 152mm, height < 64mm), PCIe 3.0 x16†
  - Slot 2: low-profile (length < 152mm, height < 64mm), PCIe 3.0 x1†  
  - M.2 card slots: one for SSD  
  - Optional rear 2x USB2.0 / parallel occupies one expansion slot
  - Optional system floor stand for vertical orientation

## Floor Stand

- Some:

## Packaging

- (WxDxH): 7.7" X 15.4" X 19.7"; 195mm X 390mm X 500mm  
  - Cross weight (approx.) 14.22 lb (6.45 kg)

## Power supply

- Some: 180 watts, autosensing, 85% PSU

## Limited warranty

- Some:
  - 1-year or 3-year, depot service / service upgrades available
  - 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 Create (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®
  - Individual USB port disablement
  - Boot without keyboard and mouse
  - Optional rear 2x USB2.0 / parallel occupies one expansion slot

## Environment

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

## Accessories

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

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

Lenovo, January 2018
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</table>

## Memory

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

## Storage

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

## Optical

- Some: Optional 7-in-1 media reader

## Monitor cable

- AMD Radeon™ Graphics in processor (not for AMD Ryzen processor), supports independent displays, works along with AMD discrete graphics to support more displays;
- Max resolution: 4096x2160 (DP) @ 60Hz; 1920x1200 (VGA) @ 60Hz

## Chipset

- AMD B350 Chipset

## Front ports

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

## Rear ports

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

## Audiosupport

- High Definition (HD) Audio, Realtek ALC662 / optional interna speaker (1.5 watt )
- Some: 11ac wireless, M.2 Card, Realtek RTL8821AE (dual band), Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (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: 11ac wireless, M.2 Card, Atheros QCA9888 (dual band), Wi-Fi + Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter
- Gigabit ethernet, Realtek RTL8111E/PV, Wake on LAN

## Manageability

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

## Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Padlock loop
- Administrator password
- Hard disk password
- Smart USB protection, allows keyboards / mouse only, blocks all storage devices
- Boot password
- Optional knob lock to physically lock both keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

## Keyboard

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

## Mouse

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

## Mechanical

- Some: SFF (8.4L), black color; metal case
- * (WxDxH) 3.6” x 11.4” x 13.5”; 92.5mm x 290.5mm x 343.5mm
- Approx. 13.2 lb (6.0 kg), weight may vary by configuration
- Toolless cover, disk, optical removal
- Optional dust filter
- Bay 1: Slim external ODD bay
- Bay 2: 3.5”, internal, HDD/SSD
- Bay 3: 2.5”, internal, HDD/SSD (bay only comes with 2.5" 2nd disk)
- Some: Optional front USB3.1 Type-C x2 module occupations PCIe x16 slot (x4 card)
- Optional rear 2x USB2.0 / parallel / 2nd serial 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 (only available with Pro A6/A10/A12-8xxx APUs)
- Some: Windows 10 Pro 64-bit
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## Preloaded applications (only some listed)

- Microsoft Office preloaded;
- purchase a product key to activate
- Only for Windows 10
- Lenovo Companion
- Only for Windows 7
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- Lenovo ThinkVantage Tools
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### Memory
- 32GB max, DDR4 2400, two 260-pin SO-DIMM sockets, dual-channel capable
- 16GB single SO-DIMM memory is only available via special bid models

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

### Onboard SATA

### Media reader

### Graphics

### DP cable

### Chipset

### Front ports

### Rear ports

### I/O box

### Audio support

### WAN

### Bluetooth

### Ethernet

### Manageability

### Security chip

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<th>Details</th>
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<td>Padlock loop</td>
<td>Hard disk password</td>
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<td>Smart USB protection, allows keyboard mouse only, blocks all storage devices</td>
<td>Boot sequence control</td>
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<tr>
<td>Power-on password</td>
<td>Boot without keyboard and mouse</td>
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<tr>
<td>Chassis intrusion switch</td>
<td>Individual USB port disablement</td>
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### Keyboard

### Mouse

### Mechanical
- Tiny (1L), black color; metal case
- M715 Tiny only:
  - 7.06" W X 7.20" D X 1.36" H
  - 179mm W X 182.9mm D X 34.5mm H
  - 2.9 lb (1.3 kg), weight may vary by configuration
- 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
  - 4.12 lb (1.87 kg), weight may vary by configuration
- With VESA mount & I/O box:
  - 7.42" W X 7.30" D X 2.62" H
  - 188.4mm W X 185.38mm D X 66.6mm H
  - 3.53 lb (1.6 kg), weight may vary by configuration

### VESA mount

### Floor Stand

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

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

### Preload

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

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

### Environment

### Accessories

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

Lenovo, October 2017
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<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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**ThinkCentre M715 Tiny (2nd Gen) Platform Specifications**

**Product Specifications Reference (PSREF)**

---

### Processor

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<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency Base/Max</th>
<th>L2 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
- * System automatically clocks down for the lower memory controller

**Disk**

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

**Optical**

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

**Onboard SATA**

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

**Graphics**

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

**Monitor cable**

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

**Chipset**

- AMD B350 Chipset

**Front ports** (Std.)

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

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

- One optional port (VGA**, 3rd DP**, HDMI**, or serial on some models)
- * Depending on many factors, actual data transfer speed may be less than theoretical speed
- ** Not 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
- 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

**Keyboard**

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

**Mouse**

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

**Mechanical**

- Tiny (1L), black color; metal case
- *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
  - 3.66 lb (1.66 kg), weight may vary by configuration

**VESA mount**

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

**Floor Stand**

- Optional system floor stand for vertical orientation

**Power supply**

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

**Limited warranty**

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

**Preload**

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

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

**Environment**

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

**MIL-spec test**

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

**Accessories**

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

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**Lenovo, July 2018**

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

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<tr>
<th>APU</th>
<th>Cores</th>
<th>Frequency Base/Max</th>
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<th>Memory Types</th>
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<td>DDR4-2400</td>
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</table>

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

## Memory

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

## Disk

- Some: 256GB Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
- *256GB SATA (support Windows 10 IOT only) is only available via special bid models
- Some: 32GB M.2 Solid State Drive (SSD) / SATA interface
- Some: 128GB M.2 Solid State Drive (SSD) / PCIe NVMe interface
- None

## Optical Onboard SATA Media reader

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

## Graphics

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

## DP cable

- None

## Chipset

- AMD B300 Chipset

## Front ports

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

## Rear ports

- One USB 3.0 and three USB 2.0 (optional external optical box or I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, HDMI, or serial on some models), one headphone
- *Depending on many factors, actual data transfer speed may be lower than theoretical speed
- None

## I/O box

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

## Audio support

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

## WLAN

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

## Bluetooth™ Ethernet Modem

- Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter
- None

## Manageability Security chip Security features

- DASH 1.0/1.1
- 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
- Power-on password

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

## Preload

- Windows Embedded Standard 7 V2 (WES 7 V2)
- Windows 10 IoT Enterprise
- LeTOS V2 (Lenovo Terminal Operating System, Linux-based)

## Limited warranty

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

## Keyboard Mouse

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

## Mechanical

- Tiny (1L), black color; metal case
- 7.05” W X 7.20” D X 1.36” H
- 179mm W X 182.9mm D X 34.5mm H
- 2.9 lb (1.3 kg), weight may vary by configuration

## VESA mount

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

## Floor Stand

- Optional system floor stand for vertical orientation

## Power supply

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

## Environment

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

## Accessories

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

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**Lenovo, October 2017**
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<th>Model</th>
<th>Region</th>
<th>Processor</th>
<th>vPro</th>
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ThinkCentre M715 Tiny Thin Client (2nd Gen) Platform Specifications

Processor

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<th>Cores/Threads</th>
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<th>L2 Cache</th>
<th>Memory Support (Up to)</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 6.0Gb/s connector on planar

Graphics

AMD Radeon™ Graphics in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional port (HDMI, VGA, or 3rd DP), supports 3 independent displays (supports maximum of 2 concurrent HDMI/DVI displays when using HDMI port or DP to DVI/HDMI dongles, and Athlon / Athlon PRO only support 2 displays);

Max resolution: 4096x2160 (DP)@60Hz; 4096x2160 (HDMI)@30Hz; 1920x1200 (VGA)@60Hz

Monitor cable

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

Chipset

AMD B300 Chipset

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

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

Rear ports* (Opt.) One optional port (VGA**, 3rd DP**, HDMI**, or serial on some models)

* Depending on many factors, actual data transfer speed may be lower than theoretical speed
** Not support VGA, 3rd DP; HDMI for the models with Athlon / Athlon PRO

Audio support

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

WLAN

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

Gigabit ethernet, Realtek RTL8111EPV, Wake on LAN

Bluetooth

Ethernet

Manageability

DASH 1.0/1.1

Security chip

Discrete TPM 2.0, TCG Certified

Security features

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

Mechanical

Tiny (1L), black color; metal case
- Toolless chassis open (need optional toolless 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

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

Limited warranty

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

Preload

Preloaded operating system

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

Environment

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

MIL-SPEC test

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

Accessories

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

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

Lenovo, July 2018
## ThinkCentre M720 SFF Platform Specifications

### Processor

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<th>Cores / Threads</th>
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</tr>
<tr>
<td>Core i5-8500</td>
<td>6 / 6</td>
<td>3.0G / 4.1G</td>
<td>9 MB</td>
<td>DDR4-2400</td>
<td>UHD 630</td>
</tr>
<tr>
<td>Core i7-8700</td>
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<td>3.2G / 4.6G</td>
<td>16 MB</td>
<td>DDR4-2400</td>
<td>UHD 630</td>
</tr>
</tbody>
</table>

### Memory

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

### Storage

<table>
<thead>
<tr>
<th>Some:</th>
<th>Hard Drive / SATA 6.0Gb/s</th>
<th>2.5&quot; or 3.5&quot;</th>
<th>5400 rpm or 7200 rpm</th>
<th>Some: Solid State Drive (SSD) / SATA 6.0Gb/s</th>
<th>2.5&quot;</th>
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</thead>
<tbody>
<tr>
<td>Some:</td>
<td>M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s</td>
<td>M.2 SSD (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s</td>
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<td></td>
<td></td>
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<tr>
<td>Some:</td>
<td>Intel Optane™ Memory (not support Celeron / Pentium Processor)</td>
<td>M.2</td>
<td></td>
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<tr>
<td>Some:</td>
<td>DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)</td>
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<tr>
<td>Some:</td>
<td>DVD Burner (DVD+RW), SATA 1.5Gb/s Drive, slim (9.0mm)</td>
<td></td>
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</tbody>
</table>

### Optics

- 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

### Graphics

- 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

- Intel B360 Chipset

### Front ports:

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

### Rear ports:

- (Opt.) 1x media reader

### Rear ports:

- (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 or ethernet card

### Audio support

- High Definition (HD) Audio, Realtek ALC2233VB / 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 2600, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2

### Bluetooth

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

### Ethernet

- Gigabit ethernet, Intel Ethernet Connection I219-V (Jacksonville), Wake on LAN®
- Some: Intel Ethernet Server Adapter I350-T4*, gigabit ethernet, 4x RJ-45, PCIe x4
- Some: Bitfai BN8E86*, gigabit ethernet, PCIe x1 (only available via special bid)
  * Choose either I350-T4 or BN8E86

### Manageability

<table>
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<tr>
<th>Security chip</th>
<th>Security features</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>Discrete TPM 2.0, TCG Certified</td>
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</table>

### Mechanical

- SFF (8.4L), black color: metal case
- (WxDxH) 3.64” X 11.44” X 13.52”
- 92.5mm X 290.5mm X 343.5mm
- Approx. 13.24 lb (6.0 kg), weight may vary by configuration
- Toolless cover, disk, optical, and extension card removal
- Optional dust filter

### 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 Fingerprint Mouse (USB connector), Windows Hello support, black
- Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black
- Some: Lenovo Mouse (PS/2 connector), black (only available via special bid)

### Mouse

- Some: Lenovo Calliope Mouse (USB connector), Windows Hello support, black
- Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black
- Some: Lenovo Mouse (PS/2 connector), black (only available via special bid)

### Power supply

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

### Limited warranty

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

### Preload

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

### Preloaded applications

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

### Environment

- ENERGY STAR® 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
<table>
<thead>
<tr>
<th>Processor</th>
<th>Core(s) / Threads</th>
<th>Frequency (Base/MaxGHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
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<tr>
<td>Celeron G4900T</td>
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<td>4 MB</td>
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<td>12 MB</td>
<td>DDR4-2666</td>
<td>UHD 630</td>
</tr>
</tbody>
</table>

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

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

### Optical
- Some: DVD Burner (DVD+RW), slim (9.0mm), via USB external ODD box

### Onboard SATA
- Some: DVD Burner (DVD+RW), slim (9.0mm), via USB external ODD box

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

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

### Chipset
- **Intel B360 Chipset**

### Front ports* (Std.)
- one USB 3.1 Gen1 (Always On and fast charge), one USB 3.1 Type-C Gen 1, one microphone (3.5mm), one headphone / microphone combo jack (3.5mm)

### Rear ports* (Opt.)
- 2x USB 3.1 Gen2, 2x USB 3.1 Gen1, 1x ethernet (RJ-45), 1x DisplayPort, 1x HDMI

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

### WLAN
- Some: 11ac wireless, M.2 Card, Realtek RTL8882CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2

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

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

### Mechanical
- Tiny (1L), black color; metal case
- * Tinfoil chassis open (need optional tinfoil chassis screw)
- * Tinfool SSD, SSD, memory removal
- * Optional dust filter

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

### Power supply
- 65 watts AC/DC adapter, autoselecting, 88% PSU
- 90 watts AC/DC adapter, autoselecting, 88% PSU
- 135 watts AC/DC adapter, autoselecting, 88% PSU

### Preload
- **Preloaded operating system**
- **Preloaded applications (only some listed)**

### 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

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

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**Lenovo, July 2018**
<p>| Model          | Region | Processor  | vPro | Graphics               | Monitor Cable | Memory | Storage (HDD/SSD) | Optical | WLAN + Bluetooth | Ethernet | Optional Rear Ports | Extension Card | Kensington Cable Lock | Adapter Cage | Toolless Chassis Screw | Speaker | Dust VESA Filter Mount | Stand | Power Supply | TUV Low Noise | OS | Warranty | Ann Date (m/y) |
|----------------|--------|------------|------|------------------------|---------------|--------|-------------------|---------|-----------------|----------|-------------------|-------------|----------------------|-------------|-----------------------|--------|----------------------|--------|--------------|--------------|----|---------|----------------|---|-----------|----------------|----|----------|----------------|---|-----------|----------------|---|-----------|----------------|---|-----------|----------------|---|-----------|
| 10T7001GUS     | US     | i3-8100T   | No   | Intel UHD 630          | None          | 4GBx1  | 1TB 7200rpm 2.5&quot;  | None    | 8265 ac, 2x2 + BT4.2 | Integrated | 2nd DP | None | None | None | None | None | Stand | 1.5Wx1 | None | None | 65W | 88% | Adapter | 65W | Win10 | 3-year, Pro 64 Onsite | 06/18 |
| 10T7001HUS     | US     | i5-8400T   | No   | Intel UHD 630          | None          | 8GBx1  | 256GB SSD M.2 PCIe NVMe Opal | None    | 8265 ac, 2x2 + BT4.2 | Integrated | 2nd HDMI | None | None | None | None | None | None | Stand | 1.5Wx1 | None | None | 135W | 88% | Adapter | 65W | Win10 | 3-year, Pro 64 Onsite | 06/18 |
| 10T7001JUS     | US     | i7-8700T   | No   | Intel UHD 630          | None          | 8GBx1  | 1TB SSD M.2 PCIe NVMe Opal | None    | 8265 ac, 2x2 + BT4.2 | Integrated | 2nd DP | None | None | None | None | None | None | Stand | 1.5Wx1 | None | None | 135W | 88% | Adapter | 65W | Win10 | 3-year, Pro 64 Onsite | 06/18 |
| 10T7001MUS     | US     | i5-8400T   | No   | Intel UHD 630          | None          | 8GBx1  | 512GB SSD M.2 PCIe NVMe Opal | None    | 8265 ac, 2x2 + BT4.2 | Integrated | 2nd HDMI | None | None | None | None | None | None | Stand | 1.5Wx1 | None | None | 65W | 88% | Adapter | 65W | Win10 | 3-year, Pro 64 Onsite | 06/18 |
| 10T7001ONUS    | US     | Pentium Gold G5400T | No | Intel UHD 610         | None          | 8GBx1  | 1TB 7200rpm 2.5&quot;  | None    | 8265 ac, 2x2 + BT4.2 | Integrated | 2nd DP | None | None | None | None | None | None | Stand | 1.5Wx1 | None | None | 135W | 88% | Adapter | 65W | Win10 | 3-year, Pro 64 Onsite | 06/18 |
| 10T7001PUS     | US     | Pentium Gold G5400T | No | Intel UHD 610         | None          | 8GBx1  | 500GB SSD M.2 PCIe NVMe Opal | None    | 8265 ac, 2x2 + BT4.2 | Integrated | 2nd DP | None | None | None | None | None | None | Stand | 1.5Wx1 | None | None | 65W | 88% | Adapter | 65W | Win10 | 3-year, Pro 64 Onsite | 06/18 |
| 10T7001QUS     | US     | i7-8700T   | No   | Intel UHD 630          | None          | 8GBx1  | 1GB Optane Memory + 1TB 7200rpm 2.5&quot; | None    | 8265 ac, 2x2 + BT4.2 | Integrated | 2nd DP | None | None | None | None | None | None | Stand | 1.5Wx1 | None | None | 65W | 88% | Adapter | 65W | Win10 | 3-year, Pro 64 Onsite | 07/18 |
| 10T7001TUS     | US     | i7-8700T   | No   | Intel UHD 630          | None          | 8GBx1  | 16GB Optane Memory + 1TB 7200rpm 2.5&quot; | None    | 8265 ac, 2x2 + BT4.2 | Integrated | 2nd DP | None | None | None | None | None | None | Stand | 1.5Wx1 | None | None | 65W | 88% | Adapter | 65W | Win10 | 3-year, Pro 64 Onsite | 07/18 |
| 10T7001UES     | US     | i3-8100T   | No   | Intel UHD 630          | None          | 4GBx1  | 512GB SSD M.2 PCIe NVMe Opal | None    | 8265 ac, 2x2 + BT4.2 | Integrated | 2nd DP | None | None | None | None | None | None | Stand | 1.5Wx1 | None | None | 65W | 88% | Adapter | 65W | Win10 | 3-year, Pro 64 Onsite | 07/18 |
| 10T7001WUS     | US     | i7-8700T   | No   | Intel UHD 630          | None          | 8GBx1  | 16GB Optane Memory + 1TB 7200rpm 2.5&quot; | None    | 8265 ac, 2x2 + BT4.2 | Integrated | 2nd DP | None | None | None | None | None | None | Stand | 1.5Wx1 | None | None | 65W | 88% | Adapter | 65W | Win10 | 3-year, Pro 64 Onsite | 07/18 |
| 10T7001XUS     | US     | i3-8100T   | No   | Intel UHD 630          | None          | 8GBx1  | 1TB 7200rpm 2.5&quot;  | None    | 8265 ac, 2x2 + BT4.2 | Integrated | 2nd DP | None | None | None | None | None | None | Stand | 1.5Wx1 | None | None | 65W | 88% | Adapter | 65W | Win10 | 3-year, Pro 64 Onsite | 07/18 |
| 10T70020US     | US     | i5-8400T   | No   | Intel UHD 630          | None          | 8GBx1  | 16GB Optane Memory + 1TB 7200rpm 2.5&quot; | None    | 8265 ac, 2x2 + BT4.2 | Integrated | 2nd DP | None | None | None | None | None | None | Stand | 1.5Wx1 | None | None | 65W | 88% | Adapter | 65W | Win10 | 3-year, Pro 64 Onsite | 07/18 |
| 10T70022US     | US     | i5-8400T   | No   | Intel UHD 630          | None          | 8GBx1  | 512GB SSD M.2 PCIe NVMe Opal | None    | 8265 ac, 2x2 + BT4.2 | Integrated | 2nd DP | None | None | None | None | None | None | Stand | 1.5Wx1 | None | None | 65W | 88% | Adapter | 65W | Win10 | 3-year, Pro 64 Onsite | 07/18 |
| 10T70023US     | US     | i5-8400T   | No   | Intel UHD 630          | None          | 8GBx1  | 1TB 7200rpm 2.5&quot;  | None    | 8265 ac, 2x2 + BT4.2 | Integrated | 2nd HDMI | None | None | None | None | None | None | Stand | 1.5Wx1 | None | None | 65W | 88% | Adapter | 65W | Win10 | 3-year, Pro 64 Onsite | 07/18 |
| 10T70025US     | US     | i5-8400T   | No   | Intel UHD 630          | None          | 8GBx1  | 1TB 7200rpm 2.5&quot;  | None    | 8265 ac, 2x2 + BT4.2 | Integrated | 2nd DP | None | None | None | None | None | None | Stand | 1.5Wx1 | None | None | 65W | 88% | Adapter | 65W | Win10 | 3-year, Pro 64 Onsite | 07/18 |
| 10T70027US     | US     | i7-8700T   | No   | Intel UHD 630          | None          | 8GBx1  | 256GB SSD M.2 PCIe NVMe Opal | None    | 8265 ac, 2x2 + BT4.2 | Integrated | 2nd DP | None | None | None | None | None | None | Stand | 1.5Wx1 | None | None | 135W | 88% | Adapter | 65W | Win10 | 3-year, Pro 64 Onsite | 06/18 |</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>Optical</th>
<th>WLAN + Bluetooth</th>
<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>Speaker</th>
<th>Dust Filter Mount</th>
<th>VESA Stand</th>
<th>Power Supply</th>
<th>TUV Low Noise</th>
<th>OS</th>
<th>Warranty (m/y)</th>
<th>Ann Date</th>
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<td>i5-8400T</td>
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<td>Intel UHD</td>
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<td>Processor</td>
<td>vPro</td>
<td>Graphics</td>
<td>Monitor</td>
<td>Memory</td>
<td>Storage(HDD/SSD)</td>
<td>Optical</td>
<td>WLAN + Bluetooth</td>
<td>Ethernet</td>
<td>Optional Rear Ports</td>
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<td>Kensington Lock</td>
<td>Adapter Cage</td>
<td>Toolless Chassis Screw</td>
<td>Speaker</td>
<td>Dust Filter Mount</td>
<td>VESA Mount</td>
<td>Stand</td>
<td>Keyboard / Mouse</td>
<td>Power Supply</td>
<td>TUV Low Noise</td>
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## ThinkCentre M720 Tower Platform Specifications

### Product Specifications Reference (PSREF)

**Processor**
- **Intel® Celeron®, Intel Pentium®, or 8th Generation Intel Core™ i3 / i5 / i7 Processor**
- Cores / Threads: 2 / 2
- Frequency: 3.1G / 4.3G
- Cache: 2 MB DDR4-2400
- Integrated Graphics: UHD 610

<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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**Memory**
- 64GB max, UDIMM, DDR4-2466*, 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
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s
- Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4*, 32GB/s
- Some: 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)
- 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: Three onboard SATA 6.0Gb/s connectors
- Some: Optional 7-in-1 media reader

**Graphics**
- Intel UHD Graphics 610/630 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™, supports 3 independent displays, works along with discrete graphics to support more displays;
  - Max resolution: 4096x2304 (DP) @ 60Hz; 2048x1536 (VGA) @ 50Hz
  - Some: NVIDIA GeForce® GT 730, DirectX 12, 2GB, PCIe 2.0 x16 adapter, two DisplayPort, 35 watts;
  - Max resolution: 3840x2160 (DisplayPort) @ 60Hz;
  - Some: Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle (for Collage Display with intel integrated graphics), or DP to HDMI 1.4 dongle

**Chipset**
- Intel® B360 Chipset

**Front ports**
- (Std.) 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 combination (3.5mm)

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

**Rear ports**
- (Std.) 4x USB 2.0, 1x serial (9-pin), 1x ethernet (RJ-45), 1x VGA, 2x DisplayPort,
  - 1x line-out (3.5mm)

**Rear ports**
- (Opt.) Optional: 2x USB 3.1 Gen1 via PCIe x1**, 2x USB 3.1 Type-C Gen2 via PCIe x4** (special bid only), 1x 2nd serial (9-pin), 4x serial (9-pin) via PCIe x1, additional RJ-45 and video ports available on optional graphics or ethernet card

**Audio support**
- High Definition (HD) Audio, Realtek ALC2353VB / 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

**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: Bi-lland BN8E88*, gigabit ethernet, 1x RJ-45, PCIe x1 (special bid only)

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

**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 Fingerprint Mouse (USB connector), Windows Hello support, black
  - Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black
  - Some: Lenovo Mouse (PS/2 connector), black (only available via special bid)

**Mechanical**
- Tower (15L), 3.45 kg (7.6 lb), black color, metal case

**Power supply**
- Some: 260 watts, autosensing, 85% PSU
  - Some: Lenovo @460W 80 Plus Gold (Special Bid)
  - Some: 260 watts, autosensing, 85% 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;
  - Cyberlink PowerDVD (for models with DVD / DVD-RW)
  - Cyberlink Power2GO (only for models with DVD / DVD-RW)
  - Lenovo Calliope (only for models with DVD / DVD-RW)
  - LinkedIn

**Environmental**
- ENERGY STAR® 6.1, EPEAT® Gold rating (North America), E3P 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 M725 SFF Platform Specifications

**Processor** AMD A6 / A8 / A10 / A12 and Ryzen 3 / 5 / 7 series processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency (Base/Max)</th>
<th>L2 Cache</th>
<th>Memory Support (Up To)</th>
<th>Integrated Graphics</th>
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**Memory** 4GB max, UDIMM, DDR4-2666*, four 288-pin DIMM sockets, non-ECC, clock down for the lower capability of memory controller in processor.

**Storage**
- Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
- Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 320Gb/s
- * 128GB SSD M.2 (2242) PCIe NVMe and AMD A6 / A8 / A10 / A12 processor only supports PCIe 3.0 x 2, 16Gb/s

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

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

**Media reader** Optional 7-in-1 media reader.

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

**Monitor cable** Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle, DP to HDMI 1.4 dongle

**Chipset** AMD B450 Chipset

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

**Front ports** (Opt.) Optional: 1x media reader, 2x USB 3.1 Type-C Gen2 via PCIe card (spare 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, 2x2 wireless, integrated in Wi-Fi + BT combo adapter
- * Hardware supports BT 4.2, but Win10 R5S and earlier only supports BT 4.1

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

**Cooling** Approx. 13.2 lb (6.0 kg), weight may vary by configuration

**Safety features**
- Security chip
- Security lock (not available on non-OS models)
- Smartcard reader
- Optional Lenovo Privacy Bar for monitor
- Optional Soft USB port disabler
- Optional WiFi USB port disabler
- Optional CIR switch

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

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

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

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

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

*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</th>
<th>Cable</th>
<th>Memory</th>
<th>Storage (HDD/SSD)</th>
<th>Optical</th>
<th>Media Reader</th>
<th>WLAN + Bluetooth</th>
<th>Ethernet</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>Stand</th>
<th>Keyboard / Mouse</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 (with 7th gen Core processor), M.2

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

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

Media reader
- Optional 7-in-1 media reader

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

Chipset
- Intel Q270 Chipset

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

Rear ports
- Four USB 3.1 Gen1, optional two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional two PS/2 ports (keyboard/mouse);
- Additional DisplayPort on optional graphics on some models
- Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)
- Rear audio ports: IEEE 1394a

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: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

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

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

Manageability
- Intel Active Management Technology 11.0 (Intel AMT 11.0)

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

Security features
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Optional cable lock to physically lock both keyboard and mouse
- 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 Tradional 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
- (3840x2160) @ 60Hz; 92.5mm X 290.5mm X 343.5mm
- Approx. 11.92 lb (5.4 kg), weight may vary by configuration
- Toolless cover, disk, optical, graphic card removal
- Optional dust filter
- Bay 1: Slim external ODD bay
- Bay 2: 3.5", 1" high, internal, HDD/SSD
- Slot 1: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x16
- Slot 2: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x1
- Slot 3: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x16 (x4 signal)

Floor Stand
- Optional system floor stand for vertical orientation

Power supply
- Some: 180 watts, autosensing, 85% PSU
- Some: 210 watts, autosensing, 85% PSU
- Some: 220 watts, autosensing, 92% PSU (only available via special bid)

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

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

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

Lenovo, August 2017
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<td>vPro</td>
<td>Graphics</td>
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<td>WLAN + Bluetooth</td>
<td>Optional Front Ports</td>
<td>Optional Rear Ports</td>
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<td>Front Access</td>
<td>Speaker</td>
<td>Dust Filter</td>
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## ThinkCentre M910 Tiny Platform Specifications

### Processor

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<th>Frequency</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
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<td>HD 630</td>
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<td>2.9G / 3.8G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>HD 630</td>
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</tbody>
</table>

### Memory

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

### 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 Media reader

One onboard SATA 6.0Gb/s connector. 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. Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4.

### Chipset

Intel Q270 Chipset

### Front ports*

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

### Rear ports*

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

### I/O box*

Optional external I/O box, extends two USB 2.0, two USB 3.1 Gen1, and one serial on rear, two USB 2.0 on front, via USB cable (occupy two specific USB 3.1 Gen1 of Tiny). * Depending on many factors, actual data transfer speed may be lower than theoretical speed.

### Audio support

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

### WLAN

| Some: | 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A7 (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1 |
| Some: | 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A4 (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: | 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 |
| Some: | Bluetooth 4.2 wireless, integrated in Wi-Fi + BT combo adapter |

### Ethernet

Gigabit ethernet, Intel Ethernet Connection (219-LM3), 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 support through wireless connection).

### Security chip

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

### Security features

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

### Mechanical

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

### Mechanical dimensions

Dimensions (WxDxH): With VESA mount & ODD box

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<tr>
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<th>7.05&quot; x 7.20&quot; x 1.36&quot;</th>
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<tbody>
<tr>
<td>179mm x 182.9mm x 34.5mm</td>
<td>2.91 lb (1.32 kg), vary by config</td>
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</table>

### VESA mount

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

### Power supply

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

### Limited warranty

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

### Preload

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

### Environment

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

### MIL-SPEC test

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

### Accessories

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

See footnotes for more detailed information © Lenovo

(M910 Tiny-Spec) February 2017
<table>
<thead>
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<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>Stand</th>
<th>Power Supply</th>
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**ThinkCentre M910 Tower Platform Specifications**

**Processor**
- Intel® Celeron®, Intel® Pentium®, or 6/7th Generation Intel Core™ i3 / i5 / i7 Processor
- Processor Cores... Reference (PSREF)
- Note: The specifications above may not be available in all regions. Lenovo, August 2017

**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 SATA 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: DVD Burner (DVD±RW), Sata 1.5Gb/s, 5.25" or slim (9.0mm)
- Onboard SATA: Four onboard SATA 6.0Gb/s connectors (1x eSATA and 3x SATA), RAID 0/1 support (RAID preset only available via special bid model)

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

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

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

**Security chip**
- Intel, AMD, or NVIDIA Secure Boot Chip
- * 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
- * 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

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

**Mechanical**
- Tower (18L), black color, metal case
- * (Wx Dx H) 6.5" x 12.65" x 18.15"; 156mm X 312.35mm X 410.25mm
- Approx. 15.45 lb (7 kg), weight may vary by configuration
- * Touchless cover, disk, optical, graphic card removal
- * Optional carry handle, dust filter

**Power supply**
- 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 desk)
- Bay 5: 2.5", internal, HDD/SSD (optional bay)
- Notes: M910 Tower supports up to 3 SATA devices (ODD/HDD/SSD) and 1 eSATA device (front access HDD)
- Slot 1: full-length full-height (length < 268mm, height < 112mm), PCle 3.0 x 16
- Slot 2: full-length full-height (length < 268mm, height < 112mm), PCle 3.0 x 16
- Slot 3: full-length full-height (length < 268mm, height < 112mm), PCle 3.0 x 16
- Slot 4: no slot, only bracket for optional port extension
- M.2 card slots: Two (one for WLAN, one for SSD/ Optane)
- * Optional 2 front USB3.1 Type-C ports module occupies PCIe x16 (x4 signal) slot, optional rear 2x USB2.0 / parallel / 2nd serial occupies one expansion slot

**Audio support**
- High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)
- * Depending on many factors, actual data transfer speed may be lower than theoretical speed

**Preload**
- Preloaded operating system
- Some: Windows® 7 Professional 32/64 bit
- Some: Windows 10 Pro 64-bit (not available with 7th Gen Intel processor)
- * Microsoft Office preloaded;
- * Purchase a product key to activate
- * Only for Window 10
- * Lenovo Companion
- * Lenovo Calliope
- * Lenovo ThinkVantage Tools
- * Create Recovery Media
- * Adobe® Reader®
- * Cyberlink PowerDVD Create (DVD±RW)

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

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

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**Lenovo, August 2017**

**Note:** The specifications above may not be available in all regions.
| Model       | Region | Processor | vPro | Graphics | Monitor | Cable | Memory Storage (HDD/SSD) | Optional 2.5" Bay | Optical 2.5" Bay | Media Reader | WLAN + Bluetooth | Optional Front Ports | Optional Rear Ports | Chassis Intrusion Switch | Cable Lock | Front Access Speaker | Dust Filter | Keyboard / Mouse | Carry Handle | Power Supply | Operating System | Warranty | End of Support | Ann Date (mm/yy) |
|------------|--------|-----------|------|----------|---------|-------|--------------------------|-------------------|-----------------|--------------|------------------|---------------------|---------------------|----------------------|------------|-------------------|-------------|---------------|----------------|-----------|----------------|----------------|---|
| 10MM000AUS | US     | i5-7500   | vPro | Intel HD | None    | 4GBx1 | 500GB 7200rpm 3.5"       | DVD+RW            | Optional 2.5" Bay | None         | None             | None                | None                | None                | None       | None              | None        | None          | Carry Handle | 250W       | Win10 Pro       | 3-year    | 2023           | 02/17       |
| 10MM000BUS | US     | i7-7700   | vPro | GT 730   | None    | 8GBx1 | 256GB SSD M.2            | DVD+RW            | Optional 2.5" Bay | None         | None             | None                | None                | None                | None       | None              | None        | None          | Carry Handle | 250W       | Win10 Pro       | 3-year    | 2023           | 02/17       |
| 10MM000CUS | US     | i5-7500   | vPro | Intel HD | None    | 8GBx1 | 512GB SSD M.2 PCle NVMe | DVD+RW            | Optional 2.5" Bay | None         | None             | None                | None                | None                | None       | None              | None        | None          | Carry Handle | 250W       | Win10 Pro       | 3-year    | 2023           | 02/17       |
| 10MM000DUS | US     | i7-7700   | vPro | Intel HD | None    | 8GBx1 | 256GB SSD M.2 PCle NVMe | DVD+RW            | Optional 2.5" Bay | None         | None             | None                | None                | None                | None       | None              | None        | None          | Carry Handle | 250W       | Win10 Pro       | 3-year    | 2023           | 02/17       |
| 10MM000EUS | US     | i5-7500   | vPro | Intel HD | None    | 8GBx1 | 512GB SSD M.2 PCle NVMe | DVD+RW            | Optional 2.5" Bay | None         | None             | None                | None                | None                | None       | None              | None        | None          | Carry Handle | 250W       | Win10 Pro       | 3-year    | 2023           | 02/17       |
| 10MM000LUS | US     | i7-7700   | vPro | Intel HD | None    | 8GBx1 | 1TB 7200rpm 3.5"         | DVD+RW            | Optional 2.5" Bay | None         | None             | None                | None                | None                | None       | None              | None        | None          | Carry Handle | 250W       | Win10 Pro       | 3-year    | 2023           | 02/17       |
| 10MM000MUS | US     | i7-7700   | vPro | GT 730   | None    | 8GBx1 | 1TB 7200rpm 3.5"         | DVD+RW            | Optional 2.5" Bay | None         | None             | None                | None                | None                | None       | None              | None        | None          | Carry Handle | 250W       | Win10 Pro       | 3-year    | 2023           | 02/17       |
| 10MM000NUS | US     | i5-7500   | vPro | Intel HD | None    | 8GBx1 | 512GB SSD M.2 PCle NVMe | DVD+RW            | Optional 2.5" Bay | None         | None             | None                | None                | None                | None       | None              | None        | None          | Carry Handle | 250W       | Win10 Pro       | 3-year    | 2023           | 02/17       |
| 10MM000PUS | US     | i7-7700   | vPro | Intel HD | None    | 8GBx1 | 256GB SSD M.2 PCle NVMe | DVD+RW            | Optional 2.5" Bay | None         | None             | None                | None                | None                | None       | None              | None        | None          | Carry Handle | 250W       | Win10 Pro       | 3-year    | 2023           | 02/17       |
| 10MM000QUS | US     | i7-7700   | vPro | GT 730   | None    | 8GBx1 | 1TB 7200rpm 3.5"         | DVD+RW            | Optional 2.5" Bay | None         | None             | None                | None                | None                | None       | None              | None        | None          | Carry Handle | 250W       | Win10 Pro       | 3-year    | 2023           | 02/17       |
| 10MM002JUS | US     | i5-6500   | vPro | GT 730   | None    | 8GBx1 | 256GB SSD M.2 PCle NVMe | DVD+RW            | Optional 2.5" Bay | None         | None             | None                | None                | None                | None       | None              | None        | None          | Carry Handle | 250W       | Win10 DG       | 3-year    | 2023           | 03/17       |
| 10MM002KUS | US     | i5-6500   | vPro | GT 730   | None    | 8GBx1 | 512GB SSD M.2 PCle NVMe | DVD+RW            | Optional 2.5" Bay | None         | None             | None                | None                | None                | None       | None              | None        | None          | Carry Handle | 250W       | Win10 DG       | 3-year    | 2023           | 03/17       |
| 10MM002LUS | US     | i5-6500   | vPro | GT 730   | None    | 8GBx1 | 512GB SSD M.2 PCle NVMe | DVD+RW            | Optional 2.5" Bay | None         | None             | None                | None                | None                | None       | None              | None        | None          | Carry Handle | 250W       | Win10 DG       | 3-year    | 2023           | 03/17       |
| 10MM002MUS | US     | i5-6500   | vPro | GT 730   | None    | 4GBx1 | 128GB SSD M.2 PCle NVMe | DVD+RW            | Optional 2.5" Bay | None         | None             | None                | None                | None                | None       | None              | None        | None          | Carry Handle | 250W       | Win10 DG       | 3-year    | 2023           | 03/17       |
| 10MM002NUS | US     | i7-6700   | vPro | GT 730   | None    | 8GBx1 | 512GB SSD M.2 PCle NVMe | DVD+RW            | Optional 2.5" Bay | None         | None             | None                | None                | None                | None       | None              | None        | None          | Carry Handle | 250W       | Win10 DG       | 3-year    | 2023           | 03/17       |

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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 controller frequency

### Storage

- Some: Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm, APS
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" (* 2.5" HDD/SSD and RX 460 graphics are mutually exclusive)
- Some: M.2 SSD (support up to two M.2 SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s, RAID 0/1 support (RAID preset only available via special bid model)
- Some: Intel Optane Memory (models with 7th gen Core processors), 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

### 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 (VGA) @60Hz
- Some: AMD Radeon™ RX 460, DirectX 12, 4GB, PCIe 3.0 x 8 adapter (low profile), four mini DisplayPort, 35 watts (TDP), up to 4 independent displays, works along with one onboard DisplayPort to support up to 6 independent displays
- Max resolution: 5120x2880 @60Hz (up to 2 mini DisplayPort); 4096x2160 @60Hz (up to 4 mini DisplayPort)

### Monitor cable

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

### Chipset

- Intel Q270 Chipset

### Audio support

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

### LAN

- Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A7 (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 8265
- Some: Bluetooth 4.2 wireless, integrated in Wi-Fi + BT combo adapter

### Environmental Specifications

- 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.lenovosupport.com](http://www.lenovosupport.com)
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<th>Stand Power Supply</th>
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© Copyright Lenovo 2019. All rights reserved.
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<tr>
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<th>Processor</th>
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<th>Monitor Cable</th>
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<th>Storage(HDD/SSD)</th>
<th>External Optical / I/O Box</th>
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<th>Chassis Intrusion Switch</th>
<th>Kensington Cable Lock</th>
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<th>Adapter Cage</th>
<th>Toolless Chassis Screw</th>
<th>Dust Filter / Keyboard Mouse</th>
<th>VESA Mount</th>
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<th>Power Supply</th>
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### Processor

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### Memory

64GB max, UDIMMR, 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: Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4*, 32Gb/s
- Some: 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s
- Some: Intel Optane™ Memory (not support Celeron / Pentium Processor, M.2)
- Some: DVD-ROM, SATA 1.5Gb/s Drive, slim (9.0mm)
- Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)

### Optical

- Some: Four onboard SATA 6.0Gb/s connectors, RAID 0/1/5/6 (RAID preset only available via special bid model)
- 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: 4096x3072 (DP)@60Hz, 2048x1536 (VGA)@50Hz
- Some: NVIDIA GeForce® GT 730, DirectX 12, 2GB, PCIe 2.0 x16 adapter, two DisplayPort, 35 watts

### Monitor cable

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

### Chipset

Intel Q370 Chipset

### 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 (3.5mm)
- 1x microphone (3.5mm), 1x headphone / microphone jack (3.5mm)

### Rear ports (Opt.)

- Optional: 1x media reader
- Optional: 1x serial (9-pin), 1x Ethernet (RJ-45), 1x VGA, 2x DisplayPort, 1x line-out (3.5mm)

### Rear ports (Opt.)

- Optional: 2x USB 2.0, 2x USB 3.1 Gen1 via PCIe x1, 1x USB 3.1 Type-C Gen2 via PCIe x4 (special bid only)
- 1x 2nd serial (9-pin), 1x 2nd serial (9-pin) via PCIe x1, 1x 2nd serial (9-pin)
- 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, Realetk ALC233VB2 / internal speaker (2 watt)

### 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
- Some: Bit1 Intel BNE88, gigabit ethernet, 1x RJ-45, PCIe x1 (special bid only)

### Security chip

Discrete TPM 2.0, TCG Certified

### 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 features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Password lock
- Optional cable lock to physically lock both keyboard and mouse
- Optional chassis intrusion switch
- Optional chassis E-Lock (special bid)

### Mechanical

- SFF (8.4L), black color, metal case
- (WxDxH): 36.9” X 11.4” X 13.5”, 92.5mm X 290.5mm X 343.5mm
- Approx. 13.23 lb (6 kg), weight may vary by configuration
- Toolless cover, disk, optical, extension card 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: 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 (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, July 2018
ThinkCentre M920 Tiny Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency (Up to)</th>
<th>Cache</th>
<th>Memory Support</th>
<th>Integrated Graphics</th>
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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
- * 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
- One onboard SATA 6.0Gb/s connector

### Optical

- Intel HD Graphics 610/630 in processor, uses main memory, DirectX12, one DisplayPort (one HDMI port, one optional video port (2nd HDMI, VGA, 2nd DP, or USB 3.1 C-Type Gen 1 with DisplayPort function), up to 3 independent displays;
- Max resolution: 4096x2304 (DP) @ 60Hz; 4096x2304 (Type-C) @ 60Hz;
- 4096x2160 (onboard HDMI) @ 24Hz; 2048x1536 (VGA) @ 50Hz

### Monitor cable

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

### Chipset

- Intel Q370 Chipset
- Front ports (Std.)* one USB 3.1 Gen1 (Always On and fast charge), one USB 3.1 Type-C Gen 1, one microphone (3.5mm), one headphone / microphone combo jack (3.5mm)
- Rear ports (Std.)* 2x USB 3.1 Gen2, 2x USB 3.1 Gen1, 1xinernet (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
- * Depending on many factors, actual data transfer speed may be lower than theoretical speed

### Audio support

- Realtek ALC2333VB / optional internal speaker (1.5 watt or 2 watt)

### WLAN

- Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
- Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
- 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 219-LM(Jacksonville), Wake on LAN, Ethernet (Opt.)
- 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)
- Discrete TPM 2.0, TCG Certified
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Chassis intrusion switch
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices

### Security chip

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

### Mechanical

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

### Power supply

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

### Limited warranty

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

### Preload

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

### Preloaded applications (only some listed)

- Lenovo Vantage
- Microsoft Office preloaded;
- Cyberlink PowerDVD (only for models with DVD / DVD±RW)
- Cyberlink Power2GO (only for models with DVD±RW)
- Lenovo Calliope Keyboard (USB connector), black
- Lenovo Calliope Mouse (USB connector), black

### Environment

- ENERGY STAR® 7.0, EPEAT™ Gold rating (North America), ErP Lot 3, TCO
- UV 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

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

Lenovo, July 2018
<p>| Model       | Region | Processor | vPro | Graphics | Monitor Cable | Memory | Storage (HDD/SSD) | Optical | WLAN + Bluetooth | Ethernet | Optional Rear Ports | Extension Card | Kensington Adapter | Low Profile | Toolless Chassis | Screw | Dust Filter | Stand | VESA Mount | Power Supply | TUV Low Noise | OS | Warranty | Ann Date (m/y) |
|------------|--------|-----------|------|----------|---------------|--------|-------------------|---------|------------------|----------|------------------|-------------|------------------|-------------|-----------------|-------|----------|-------|-----------|-----------|-------------|-------------|-----|----------|---------------|
| 10RS000MUS | US     | Core i5-8500T | vPro | Intel UHD 630 | None | 8GBx1 | 512GB SSD M.2 PCIe NVMe Opal | None | 9560 ac, 2x2 + BT5.0 | Integrated | 2nd DP | None | None | None | None | 1.5Wx1 | None | None | Stand | USB / USB | 65W | 88% | Adapter | 90W | Win10-3-year, Pro 64 Onsite | 07/18 |
| 10RS000PUS | US     | i7-8700T | vPro | Intel UHD 630 | None | 8GBx1 | 512GB SSD M.2 PCIe NVMe Opal | None | 9560 ac, 2x2 + BT5.0 | Integrated | 2nd HDMI | None | None | None | None | 1.5Wx1 | None | None | Stand | USB / USB | 65W | 88% | Adapter | 90W | Win10-3-year, Pro 64 Onsite | 07/18 |
| 10RS000QUS | US     | i7-8700T | vPro | Intel UHD 630 | None | 8GBx1 | 256GB SSD M.2 PCIe NVMe Opal | None | 9560 ac, 2x2 + BT5.0 | Integrated | 2nd DP | None | None | None | None | 1.5Wx1 | None | None | Stand | USB / USB | 65W | 88% | Adapter | 90W | Win10-3-year, Pro 64 Onsite | 07/18 |
| 10RS000RUS | US     | Core i5-8500T | vPro | Intel UHD 630 | None | 8GBx1 | 1TB SSD M.2 PCIe NVMe Opal | None | 9560 ac, 2x2 + BT5.0 | Integrated | 2nd HDMI | None | None | None | None | 1.5Wx1 | None | None | Stand | USB / USB | 65W | 88% | Adapter | 90W | Win10-3-year, Pro 64 Onsite | 07/18 |
| 10RS000TUS | US     | i7-8700T | vPro | Intel UHD 630 | None | 8GBx1 | 1TB SSD M.2 PCIe NVMe Opal | None | 9560 ac, 2x2 + BT5.0 | Integrated | 2nd DP | None | None | None | None | 1.5Wx1 | None | None | Stand | USB / USB | 65W | 88% | Adapter | 90W | Win10-3-year, Pro 64 Onsite | 07/18 |
| 10RS000UUS | US     | i7-8700T | vPro | Intel UHD 630 | None | 8GBx1 | 512GB SSD M.2 PCIe NVMe Opal | None | 9560 ac, 2x2 + BT5.0 | Integrated | 2nd DP | None | None | None | None | 1.5Wx1 | None | None | Stand | USB / USB | 65W | 88% | Adapter | 90W | Win10-3-year, Pro 64 Onsite | 07/18 |
| 10RS000VUS | US     | i7-8700T | vPro | Intel UHD 630 | None | 8GBx1 | 1TB SSD M.2 PCIe NVMe Opal | None | 9560 ac, 2x2 + BT5.0 | Integrated | 2nd HDMI | None | None | None | None | 1.5Wx1 | None | None | Stand | USB / USB | 65W | 88% | Adapter | 90W | Win10-3-year, Pro 64 Onsite | 07/18 |
| 10RS000XUS | US     | i7-8700T | vPro | Intel UHD 630 | None | 8GBx1 | 1TB SSD M.2 PCIe NVMe Opal | None | 9560 ac, 2x2 + BT5.0 | Integrated | 2nd DP | None | None | None | None | 1.5Wx1 | None | None | Stand | USB / USB | 65W | 88% | Adapter | 90W | Win10-3-year, Pro 64 Onsite | 07/18 |
| 10RS000YUS | US     | Core i5-8500T | vPro | Intel UHD 630 | None | 8GBx1 | 512GB SSD M.2 PCIe NVMe Opal | None | 9560 ac, 2x2 + BT5.0 | Integrated | 2nd DP | None | None | None | None | 1.5Wx1 | None | None | Stand | USB / USB | 65W | 88% | Adapter | 90W | Win10-3-year, Pro 64 Onsite | 07/18 |
| 10RS001GUS | US     | i7-8700T | vPro | Intel UHD 630 | None | 8GBx1 | 1TB SSD M.2 PCIe NVMe Opal | None | 9560 ac, 2x2 + BT5.0 | Integrated | 2nd DP | None | None | None | None | 1.5Wx1 | None | None | Stand | USB / USB | 65W | 88% | Adapter | 90W | Win10-3-year, Pro 64 Onsite | 07/18 |
| 10RS001HUS | US     | Core i5-8500T | vPro | Intel UHD 630 | None | 8GBx1 | 1TB SSD M.2 PCIe NVMe Opal | None | 9560 ac, 2x2 + BT5.0 | Integrated | 2nd DP | None | None | None | None | 1.5Wx1 | None | None | Stand | USB / USB | 65W | 88% | Adapter | 90W | Win10-3-year, Pro 64 Onsite | 07/18 |
| 10RS001BUS | US     | i7-8700T | vPro | Intel UHD 630 | None | 8GBx1 | 16GB Optane Memory + 1TB 7200rpm 2.5&quot; | None | 9560 ac, 2x2 + BT5.0 | Integrated | 2nd HDMI | None | None | None | None | 1.5Wx1 | None | None | Stand | USB / USB | 65W | 88% | Adapter | 90W | Win10-3-year, Pro 64 Onsite | 08/18 |
| 10RS001CUS | US     | Core i5-8500T | vPro | Intel UHD 630 | None | 8GBx1 | 16GB Optane Memory + 1TB 7200rpm 2.5&quot; | None | 9560 ac, 2x2 + BT5.0 | Integrated | 2nd DP | None | None | None | None | 1.5Wx1 | None | None | Stand | USB / USB | 65W | 88% | Adapter | 90W | Win10-3-year, Pro 64 Onsite | 08/18 |
| 10RS001GUS | US     | i7-8700T | vPro | Intel UHD 630 | None | 8GBx1 | 16GB Optane Memory + 1TB 7200rpm 2.5&quot; | None | 9560 ac, 2x2 + BT5.0 | Integrated | 2nd DP | None | None | None | None | 1.5Wx1 | None | None | Stand | USB / USB | 65W | 88% | Adapter | 90W | Win10-3-year, Pro 64 Onsite | 08/18 |
| 10RS001HUS | US     | Core i5-8500T | vPro | Intel UHD 630 | None | 8GBx1 | 16GB Optane Memory + 1TB 7200rpm 2.5&quot; | None | 9560 ac, 2x2 + BT5.0 | Integrated | 2nd HDMI | None | None | None | None | 1.5Wx1 | None | None | Stand | USB / USB | 65W | 88% | Adapter | 90W | Win10-3-year, Pro 64 Onsite | 08/18 |</p>
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<td>88% Adapter</td>
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<td>88% Adapter</td>
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<td>Win10 3-year, Pro 64 Onsite 01/19</td>
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</table>
## ThinkCentre M920 Tower Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Celeron®, Intel® Pentium®, or 8th Generation Intel® Core™ i3 / i5 / i7 Processor</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
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</thead>
<tbody>
<tr>
<td>Celeron G4900</td>
<td>2 / 2, 3.1G</td>
<td>2 MB</td>
<td>DDR4-2400, UHD 610</td>
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<tr>
<td>Celeron G4920</td>
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<tr>
<td>Core i5-8400</td>
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<td>9 MB</td>
<td>DDR4-2666, UHD 630</td>
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<td>6 / 12, 3.2G / 4.6G</td>
<td>12 MB</td>
<td>DDR4-2666, UHD 630</td>
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</tbody>
</table>

### Memory

64GB max, UDIMM, DDR4-2666*, four 288-pin DIMM sockets, non-ECC, dual-channel capable.

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

### Storage

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

- Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2
- Optional DVD-ROM or DVD Burner (DvD+R, SATA 1.5Gb/s Drive, slim (9.0mm)
- Four onboard SATA 6.0Gb/s connectors, RAID 0/1 (RAID preset only available via special bid model)

### Media reader

Optional M.2 media reader.

### Graphics

Intel UHD Graphics 610/630 in processor, uses main memory, DirectX 12, one VGA, two DisplayPort™, supports 3 independent displays, works along with discrete graphics to support more displays;

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

- Some: NVIDIA GeForce® GT 730, DirectX 12, 2GB, PCIe 2.0 x 16 adapter, two DisplayPort, 35 watts;
- Max resolution: 3840x2160 (DisplayPort)@60Hz;
- Some: NVIDIA GeForce GTX 1060 (special bid only), DirectX 12, 6GB, PCIe 3.0 x 16 adapter, 1x DVI-D, 1x HDMI, 1x DP, 120 watts, occupies two slots;
- Max resolution: 2560x1600 (DVI-D)@60Hz, 4096x2160 (HDMI)@60Hz, 5120x3000 (DP)@60Hz

### Chipset

- Intel® Q370 Chipset

### Front ports

- *(Std.)* 2x USB 3.1 Gen2, 2x USB 3.1 Gen1, 1x USB 3.1 Type-C Gen1 (15W charging), 1x microphone (3.5mm), 1x headphone / microphone combo jack (3.5mm)
- *(Opt.)* Optional: 1x media reader

### Rear ports

- *(Std.)* 4x USB 3.1 Gen1, 1x serial (9-pin), 1x ethernet (RJ-45), 1x VGA, 2x DisplayPort, 1x line-out (3.5mm)
- *(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), individual RJ-45 and video ports available on optional graphics or ethernet card
- * Depending on many factors, actual data transfer speed may be lower than theoretical speed.

### Audio support

High Definition (HD) Audio, Realtek ALC2332V3 / 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

### 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
- purchase a product key to activate
- Cyberlink PowerDVD (only for models with DVD / DVD+RW)
- Cyberlink Power2GO (only for models with DVD / DVD+RW)
- Link

### 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](http://smartfind.lenovo.com)
# ThinkCentre M920x Tiny Platform Specifications

**Processor**

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency Base/Max(GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
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<tr>
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<td>2.4G / 4.0G</td>
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<td>DDR4-2666</td>
<td>UHD 630</td>
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</tbody>
</table>

**Memory**

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

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

**Storage**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
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<td>Some:</td>
<td>Hard Drive / SATA 6.0Gb/s, 2.5&quot;, 5400 rpm or 7200 rpm</td>
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<tr>
<td>Some:</td>
<td>Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5&quot;</td>
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<td>Some:</td>
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<td>*128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s</td>
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<tr>
<td>Some:</td>
<td>Optane Memory (not support Celeron / Pentium Processor), M.2</td>
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<tr>
<td>Some:</td>
<td>DVD-ROM, slim (9.0mm), via USB external ODD box</td>
</tr>
<tr>
<td>Onboard SATA</td>
<td>One onboard SATA 6.0Gb/s connector</td>
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</table>

**Graphics**

Intel HD Graphics 610/630 in processor, uses main memory, DirectX® 12, one DisplayPort™, one HDMI, one optional video port (2nd HDMI, VGA, 2nd DP, or USB 3.1 Type-C Gen 1 with DisplayPort function), up to 3 independent displays; Max resolution: 4096x2304 (DP)@60Hz, 4096x2304 (Type-C)@60Hz, 4048x1536 (VGA)@50Hz

AMD Radeon™ RX 560, DirectX 12, 4GB GDDR5, PCIe 3.0 x8, 4x Mini DisplayPort, up to 4 independent displays, works along with onboard DP and HDMI to support up to 6 independent displays; Max resolution: 5120x2880@60Hz (up to 2 Mini DisplayPort); 4096x2160@60Hz (up to 4 Mini DisplayPort)

**Monitor cable**

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

**Chipset**

Intel® Q370 Chipset

**Audio support**

Realtek ALC2333VB2 / optional internal speaker (1.5 watt or 2 watt)

**WLAN**

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

**Bluetooth**

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

**Ethernet**

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

**Manageability**

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

**Security chip**

Security features:

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

**Keyboard**

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

**Mouse**

Tiny (1L), black color; metal case

- Touchless chassis open (need optional touchless chassis screw)
- Touchless HDD, SSD, memory removal
- Optional dust filter

**Mechanical**

Tiny Only: 7.05’’ X 7.20’’ X 1.36’’

Tiny Only: 7.05’’ X 7.20’’ X 1.36’’

With VESA mount & ODD box: 7.42’’ X 7.30’’ X 2.48’’

Dimensions (WxHxD) (Approx.)

7.05’’ X 7.20’’ X 1.36’’

7.42’’ X 7.30’’ X 2.48’’

2.91 Ib (1.32 kg), 179mm X 182.9mm X 34.5mm, vary by config

3.66 Ib (1.66 kg), 186.4mm X 185.38mm X 63mm, vary by config

**Environment**

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

**Power supply**

135 watts AC/DC adapter, auto-sensing, 88% PSU

**Limited warranty**

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

**Preload**

Preloaded operating system

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

Preloaded applications (only some listed)

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

**MIL-SPEC test**

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

**Accessories**

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

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

Lenovo, July 2018
<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>WLAN + Bluetooth</th>
<th>Ethernet</th>
<th>Optional Ports</th>
<th>Extension Card</th>
<th>Kensington Cable Lock</th>
<th>Adapter Low</th>
<th>Toolless Chassis</th>
<th>Screw</th>
<th>Dust</th>
<th>VESA Filter Mount</th>
<th>Stand</th>
<th>Keyboard / Mouse</th>
<th>Power Supply</th>
<th>TUV</th>
<th>Low Noise</th>
<th>OS</th>
<th>Warranty</th>
<th>Ann Date (m/y)</th>
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<td>USB Type-C</td>
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<td>1.5Wx1</td>
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<td>135W / 88% Adapter</td>
<td>None</td>
<td>Win 10 3-year,</td>
<td>Pro 64 Onsite</td>
<td>07/18</td>
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<tr>
<td>10S1001QUS</td>
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<td>07/18</td>
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<td>USB Type-C</td>
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<td>1.5Wx1</td>
<td>None</td>
<td>135W / 88% Adapter</td>
<td>None</td>
<td>Win 10 3-year,</td>
<td>Pro 64 Onsite</td>
<td>07/18</td>
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<td>i7-8700</td>
<td>vPro</td>
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<td>None</td>
<td>8GBx1</td>
<td>256GB SSD M.2 PCIe NVMe Opal</td>
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<td>9560 ac, 2x2 + BT5.0</td>
<td>Integrated</td>
<td>VGA + Serial</td>
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<td>None</td>
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<td>1.5Wx1</td>
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<td>135W / 88% Adapter</td>
<td>None</td>
<td>Win 10 3-year,</td>
<td>Pro 64 Onsite</td>
<td>07/18</td>
<td></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>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>USB Filter Mount</td>
<td>Stand</td>
<td>Dust Filter</td>
<td>VESA Mount</td>
<td>Stand</td>
<td>Keyboard / Mouse</td>
<td>Power Supply</td>
<td>TUV Low Noise</td>
<td>OS</td>
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<td>10S1001TUS</td>
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<td>i5-8500</td>
<td>vPro</td>
<td>Intel UHD 630</td>
<td>None</td>
<td>8GBx1</td>
<td>1TB SSD M.2 PCIe NVMe Opal</td>
<td>None</td>
<td>None</td>
<td>9560 ac, 2x2 + BT5.0</td>
<td>Integrated USB Type-C</td>
<td>None</td>
<td>None</td>
<td>None</td>
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<td>vPro</td>
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<td>None</td>
<td>8GBx1</td>
<td>256GB SSD M.2 PCIe NVMe Opal</td>
<td>None</td>
<td>None</td>
<td>9560 ac, 2x2 + BT5.0</td>
<td>Integrated VGA + Serial</td>
<td>None</td>
<td>None</td>
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<td>None</td>
<td>None</td>
<td>None</td>
<td>135W/USB</td>
<td>88% Adapter</td>
<td>None</td>
</tr>
</tbody>
</table>
### ThinkSmart Hub 500 Platform Specifications

#### Positioning
Purpose-built Skype Room Systems device

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

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

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

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

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

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

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

#### Chipset
Intel Q270 Chipset

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

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

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

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

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

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

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

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

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

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

#### Keyboard
None

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

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

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

#### Preload
Preloaded operating system
Windows® 10 IoT Enterprise CBB X64 (RS3)

Preloaded applications
Microsoft Skype Room Systems App

#### Certification
Skype for Business Group Certified

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

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

---

See footnotes for more detailed information

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(Hub500-Spec) March 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>Display</th>
<th>Multi-touch</th>
<th>Power Supply</th>
<th>Storage(HDD/SSD)</th>
<th>WLAN + Bluetooth</th>
<th>Keyboard / Mouse</th>
<th>Operating System</th>
<th>Warranty</th>
<th>End of Support</th>
<th>Ann Date (m/y)</th>
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<tbody>
<tr>
<td>10V50000US</td>
<td>US</td>
<td>i5-7500T</td>
<td>vPro</td>
<td>Intel HD 630</td>
<td>None</td>
<td>4GBx2</td>
<td>11.6&quot; FHD (1920x1080)</td>
<td>WVA Anti-glare, smudge resistant</td>
<td>10-point Multi-touch</td>
<td>90W 88% Adapter</td>
<td>128GB SSD M.2 PCIe NVMe</td>
<td>8265 ac, 2x2, vPro + BT4.1</td>
<td>None / None</td>
<td>Windows 10 IoT Enterprise</td>
<td>3-year, Onsite</td>
<td>May 28, 2024</td>
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</tbody>
</table>
ThinkCentre Tiny-in-One (TIO) 22

Model: 10LKPAR6++ / 10LKPAT6++

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

Compatible Tiny:
M900 Tiny, M700 Tiny, M600 Tiny, M93/p Tiny*; M83 Tiny, M73 Tiny*; or M53 Tiny, Chromebox
- Non-TIO models can't be turned on by pressing power button of TIO 22

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

Viewable image size
21.5" (546.1mm) diagonal

Max view area (W x H)
18.74" x 10.54" / 476.06mm x 267.79mm

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

Optimum resolution
1920x1080

Aspect ratio
16:9

Pixel pitch (mm)
0.24795mm

Dot/Pixel per Inch
102.4 dpi

Brightness
250 nits or cd/m² (typical)

Contrast ratio
1000:1 (typical)

Pixel response time
7ms

Color gamut
72%

Anti-reflective
Anti-glare

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

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

Preset settings
Presets: 25, user settings: 25

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

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

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

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

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

Side ports
Side ports offered by installed Tiny (optional)

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

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

Internal Speaker
1.5 watt x1

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

Mechanical

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

Weight
- (approximately) 11.27 lb / 5.11 kg (with stand)

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

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

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

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

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

VESA-compliant
VESADDC2B/Ci, VESA DPMS-compliant

Ergonomics
ISO 9241-307

Emission standards
FCC Class B

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

EPEAT
EPEAT™ Gold rating, ULE Gold, TUV, VOC

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

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

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

ThinkCentre Tiny-in-One 22 Compatible list

<table>
<thead>
<tr>
<th>Model</th>
<th>M900 Tiny, M700 Tiny, M600 Tiny, M93/p Tiny, M83 Tiny, M53 Tiny</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn on TIO and Tiny together via TIO Power Button</td>
<td>All models</td>
</tr>
<tr>
<td>All models</td>
<td>All models</td>
</tr>
<tr>
<td>Not support</td>
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<tr>
<td>Turn on TIO and Tiny together via Alt + P on USB KB</td>
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<td>TIO models</td>
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See footnotes for more detailed information

Lenovo
(TIO22) April 2016
<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>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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<tbody>
<tr>
<td>10LKPAR6US</td>
<td>US</td>
<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>
<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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<tr>
<td>10LKPAT6US</td>
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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>
<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>
</tr>
</tbody>
</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
- 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)
  - **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)
- 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)

### Side ports (Tiny)
- Nearby ports offered by installed Tiny (optional)
- 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
- 2 watt x2

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

### Mechanical
- **Dimensions**
  - TIO without stand
    - W x D x H (inch): 19.26 x 2.85 x 13.35
    - 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
    - Weight (Approx.): 11.77 lb / 5.34 kg

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

### Environmental
- VESA-compliant: VESA DDC2B/Ci, VESA DPMS-compliant
- Ergonomics: ISO 9241-307, TUV Eye Comfort certified
- Emission standards: FCC Class B
- Environmental: TCO 7.0, TCO Edge 2.0, WEEE, RoHS, ENERGY STAR® 7.0, EPEAT™ Gold rating, ULE Gold, TUV, VOC
- Windows certifications: Windows 7 and Windows 10 certified

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

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

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**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>
</tr>
</thead>
<tbody>
<tr>
<td>Turn on TIO and</td>
<td>All models</td>
<td>All models</td>
</tr>
<tr>
<td>Tiny together via</td>
<td>All models</td>
<td>All models</td>
</tr>
<tr>
<td>Alt + P on USB KB</td>
<td>All models</td>
<td>All models</td>
</tr>
</tbody>
</table>

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

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

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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>
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<td>10R0PAR1US</td>
<td>ThinkCentre Tiny-in-One 22 Gen3</td>
<td>US</td>
<td>Black</td>
<td>21.5&quot;</td>
<td>10-point Multi-touch</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>4-14 ms</td>
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<td>178 / 178</td>
<td>Adjustable Stand</td>
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<td>Region</td>
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<td>Display Size</td>
<td>Multi-touch</td>
<td>Resolution</td>
<td>Aspect Ratio</td>
<td>Pixel Pitch</td>
<td>Dot / Pixel Per Inch</td>
<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>
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<td>88%</td>
<td>Adapter</td>
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## ThinkCentre Tiny-in-One (TIO) 24

### Model
10LLPAR6++ / 10LLPAT6++

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

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

### Panel

<table>
<thead>
<tr>
<th>Viewable image size</th>
<th>23.8” (604.7mm) diagonal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max view area (W x H)</td>
<td>21.06” x 12.32” / 535.0mm x 313.0mm</td>
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<tr>
<td>Bezel Width</td>
<td>Top: Side: 2mm, Bottom: 16.3mm</td>
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<tr>
<td>Optimum resolution</td>
<td>1920x1080</td>
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<tr>
<td>Aspect ratio</td>
<td>16:9</td>
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<td>Pixel pitch (mm)</td>
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</tr>
<tr>
<td>Brightness</td>
<td>92.6 dpi</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1000:1 (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
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<tr>
<td>Color gamut</td>
<td>72%</td>
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<tr>
<td>Anti-reflective</td>
<td>Anti-glare</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>178° (+/- 89°) horizontal, 178° (+/- 89°) vertical</td>
</tr>
</tbody>
</table>

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

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

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

### Control features
- Mode-switching (TIO mode / standalone monitor mode, switches video/audio / USB input sources) / Back button, Left shift button, Right shift / Brightness button, Selection button / Menu button, Power button
- Pressing Alt + P on keyboard or pressing Power button positioned on TIO can turn on both TIO and Tiny (only some Tiny support, see compatible list)

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

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

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

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

### Internal Speaker
1.5 watt x1

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

### Mechanical

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

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

### Mounting features
Meeting the VESA FPMPMI (100mm mount)

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

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

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

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

### VESA-compliant
VEGA DDC2B/C, VESA DPM-compliant

### Ergonomics
- ISO 9241-307
- Emission standards: FCC Class B
- Environmental: TCO 7.0, TCO Edge 2.0, WEEE, RoHS, ENERGY STAR® 7.0, EPEAT™ Gold rating, ULE Gold, TUV, VOC

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

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

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

See footnotes for more detailed information © Lenovo (TIO24) Juuen 2016
<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>
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</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>0.2745 mm</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>Stand</td>
<td>16.7W / 35W</td>
<td>90W 88% Adapter</td>
<td>3-year</td>
</tr>
<tr>
<td>10LPAT6US</td>
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<td>Black</td>
<td>23.8&quot;</td>
<td>1920x1080</td>
<td>16:9</td>
<td>0.2745 mm</td>
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<td>Stand</td>
<td>16.7W / 35W</td>
<td>90W 88% Adapter</td>
<td>3-year</td>
</tr>
</tbody>
</table>
ThinkCentre Tiny-in-One (TIO) 24 Gen3

Product Specifications Reference (PSREF)
Lenovo, July 2017

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

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

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

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

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

Aspect ratio
16:9

Pixel pitch (mm)
0.2745mm

Dot/Pixel per Inch
92.6 dpi

Brightness
250 nits or cd/m² (typical)

Contrast ratio
1000:1 (typical)

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

Color gamut
72%

Anti-reflective
Anti-glare

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

Preset resolutions
640x350 @ 70Hz
640x480 @ 60Hz, 67Hz, 72Hz, 75Hz
720x400 @ 70Hz
800x600 @ 60Hz, 72Hz, 75Hz
1024x768 @ 60Hz, 70Hz, 75Hz
1152x864 @ 75Hz
1280x800 @ 60Hz
1280x1024 @ 60Hz, 72Hz, 75Hz
1366x768 @ 60Hz
1440x900 @ 60Hz, 75Hz
1600x1200 @ 60Hz, 70Hz, 75Hz
1680x1050 @ 60Hz
1920x1080 @ 60Hz

Preset resolutions

Preset / 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

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

Side ports (TIO)
One USB 3.1 Gen1 / USB 2.0 (when M73 or M53 installed or USB 2.0
can turn on both TIO and Tiny (only some Tiny support, see compatible list)
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 x 2

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

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

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

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

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

ENERGY STAR

VESA-compliant

Ergonomics
ISO 9241-307, TUV Eye Comfort certified

Emission standards
FCC Class B

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

Windows certifications
Windows 7 and Windows 10 certified

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

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

ThinkCentre Tiny-in-One 24 Gen3 Compatible list

<table>
<thead>
<tr>
<th>Model</th>
<th>M910 / M710 / M900 / M700 / M600 / M715 / M93 Tiny</th>
<th>M93p Tiny, M73 Tiny</th>
<th>Chromebox</th>
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</thead>
<tbody>
<tr>
<td>Turn on TIO and Tiny together via Alt + P on USB KB</td>
<td>All models</td>
<td>All models</td>
<td>Not support</td>
</tr>
<tr>
<td>Turn on TIO and Tiny together via TIO Power Button</td>
<td>All models</td>
<td>TIO models</td>
<td>All models</td>
</tr>
</tbody>
</table>

Notes:
- TIO without stand: 10QYPAR1++/10QYPAT1++; TIO with stand: 10QXPAR1++/10QXPAT1++
- Non-TIO models can’t be turned on by pressing power button of TIO
- TFT-LCD, In-Plane Switching technology, White LED backlight
- Viewable image size: 23.8" (604.7mm) diagonal
- Max view area: 21.06" x 12.32" / 535.0mm x 313.0mm
- Bezel Width: Top / Side: 2mm, Bottom: 22.1mm
- Native resolution: 1920x1080
- Multi-touch: Optional 10-point multi-touch, supports Wake on Touch
- Aspect ratio: 16:9
- Pixel pitch: 0.2745mm
- Dot/Pixel per Inch: 92.6 dpi
- Brightness: 250 nits or cd/m² (typical)
- Contrast ratio: 1000:1 (typical)
- Pixel response time: 14ms (default), over drive to 4ms, 6ms
- Color gamut: 72%
- Anti-reflective: Anti-glare
- Viewing angle at 10:1 CR 178° (+/- 89°) horizontal, 178° (+/- 89°) vertical
- Preset resolutions: 640x350 @ 70Hz, 640x480 @ 60Hz, 67Hz, 72Hz, 75Hz, 720x400 @ 70Hz, 800x600 @ 60Hz, 72Hz, 75Hz, 1024x768 @ 60Hz, 70Hz, 75Hz, 1152x864 @ 75Hz, 1280x800 @ 60Hz, 1280x1024 @ 60Hz, 72Hz, 75Hz, 1366x768 @ 60Hz, 1440x900 @ 60Hz, 75Hz, 1600x1200 @ 60Hz, 70Hz, 75Hz, 1680x1050 @ 60Hz, 1920x1080 @ 60Hz
- 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
- Tiny-in-One Power On: Pressing Alt + P on keyboard or pressing Power button positioned on TIO can turn on both TIO and Tiny (only some Tiny support, see compatible list)
- Side ports (TIO): USB 3.1 Gen1 / USB 2.0 (when M73 or M53 installed or USB 2.0 connected via USB upstream port)
- Side ports (Tiny): Side ports offered by installed Tiny (optional)
- Rear ports: One DisplayPort in port, one USB upstream port, one power connector
- Camera: 1080p camera with dual microphone for VOIP, LED indicator
- Internal Speaker: 2 watt x 2
- Security: Security keyhole for attachment of optional cable lock (Kensington™ lock compatible), locks optional Tiny with TIO together, more security features offered by Tiny installed (optional)
- Mechanical: Dimensions: W x D x H (inch): 21.25 x 2.85 x 14.47 / W x D x H (mm): 539.8 x 72.5 x 367.6 / Weight (Approx.): 7.96 lb / 3.61 kg / 12.92 lb / 5.86 kg
- Mounting features: Wall or desk mounting using the extend arm or third-party accessories
- Adjustable stand: Tilt: 30° back, -5° forward; Swivel: +/-45°; Pivot: clockwise 0° to 90°
- Power supply: 90 watts AC/DC adapter, 88% PSU, universal
- Power consumption: 19 watts typical, 32 watts maximum, <0.5 watts standby / suspend
- Limited warranty: 3-years, Customer Carry-In or Mail-In via Rapid Replacement Service
- ENERGY STAR
- VESA-compliant
- Ergonomics: ISO 9241-307, TUV Eye Comfort certified
- Emission standards: FCC Class B
- Environmental: TCO 7.0, TCO Edge 2.0, WEEE, RoHS, ENERGY STAR® 7.0, EPEAT Gold rating, ULE Gold, TUV, VOC
- Windows certifications: Windows 7 and Windows 10 certified
- Ship group: TIO 24 (Monitor), detachable stand, AC/DC power adapter, power cord, user’s guide and driver CD, quick start and safety poster
- Accessories: For compatible accessories, please go to http://www.lenovoquickpick.com
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<td>88% Adapter</td>
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ThinkCentre Tiny-in-One (TIO) 27

Product Specifications Reference (PSREF)

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

Compatible Tiny:
ThinkCentre Tiny, ThinkCentre Nano, and ThinkStation Tiny

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

Viewable image size
27" (685.8mm) diagonal

Max view area (W x H)
23.49" x 13.22" / 596.7mm x 335.7mm

Bezel Width
Top / Side: 2mm, Bottom: 23.3mm

Native resolution
2560x1440

Aspect ratio
16:9

Brightness
350 nits or cd/m² (typical)

Contrast ratio
1000:1 (typical)

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

Color gamut
99% sRGB

Anti-glare
Yes (25%)

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

Preset resolutions
640x350 @ 70Hz
640x480 @ 60Hz, 66Hz, 72Hz, 75Hz
720x400 @ 70Hz
800x600 @ 60Hz, 72Hz, 75Hz
1024x768 @ 60Hz, 70Hz, 75Hz
1152x864 @ 75Hz
1280x768 @ 60Hz
1280x800 @ 60Hz
1280x1024 @ 60Hz, 72Hz, 75Hz
1366x768 @ 60Hz
1440x900 @ 60Hz, 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)

On screen display features
Exit button, Left / Mode-switching button (TIO / monitor mode), Right / Brightness button, Enter / Menu button, Power button

Bottom: Volume up button, Volume down button

Tin-on-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)

Two USB 3.1 Gen1 (downgrade to USB 2.0 when installing M73 or M53 or connecting USB 2.0 via USB upstream port), one headphone / microphone combo jack

Notes: The USB ports are enabled by installing a Tiny or connecting USB upstream port; the audio port is enabled by installing a Tiny or connecting USB upstream, DisplayPort(in), or HDMI(in) port

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

One DisplayPort(in) port, one HDMI(in) port, one USB (Type-B) upstream port, one power connector

3-in-1 Cable
Undetachable 3-in-1 cable, connecting to the power connector, one USB, and one DisplayPort of the installed Tiny (optional)

Camera
RGBIR camera with dual microphone, supports Windows Hello and Facial Recognition, Think Shutter for Privacy Security, LED indicator

Internal Speaker
2 watt x2

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

Mechanical

<table>
<thead>
<tr>
<th>Dimensions (W x D x H mm / inch)</th>
<th>TIO without stand</th>
<th>TIO with stand</th>
</tr>
</thead>
<tbody>
<tr>
<td>614.0 x 329.0 x 444.25 - 554.25</td>
<td>261.7 x 2.91 x 16.26</td>
<td>614.0 x 329.0 x 444.25 - 554.25</td>
</tr>
<tr>
<td>24.17 x 12.95 x 17.49 - 21.82</td>
<td>24.17 x 12.95 x 17.49 - 21.82</td>
<td></td>
</tr>
</tbody>
</table>

| Weight (Approx.) | 4.91 kg / 10.82 lb | 7.95 kg / 17.53 lb |

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

Adjustable stand
Tilt: 30° back, -5° forward;

NOTE: This display does not support the pivot feature (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)

Ergonomics
ISO 9241-307, TUV Eye Comfort certified

Environmental
TCO 6.0, TCO Edge 2.0, WEEE, RoHS, ENERGY STAR® 7.0,

EPEAT™ Bronze rating, ULE Gold, TUV, VOC

Windows certifications
Windows 7 and Windows 10 certified

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

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

ThinkCentre Tiny-in-One 27 Compatible Matrix

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

<table>
<thead>
<tr>
<th>Turn on TIO and Tiny together via Alt + P on USB KB</th>
<th>All models</th>
<th>All models</th>
<th>Not support</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn on TIO and Tiny together via TIO Power Button</td>
<td>All models</td>
<td>TIO models</td>
<td>All models</td>
</tr>
</tbody>
</table>

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>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>10YFRAR1US</td>
<td>ThinkCentre Tiny-in-One 27</td>
<td>US</td>
<td>Black</td>
<td>27&quot;</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 / 88% Adapter</td>
<td>3-year</td>
<td>02/19</td>
</tr>
</tbody>
</table>
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Limited warranty: Support unrelated to a warranty issue may be subject to additional charges.
This section describes the changes made in this version of ThinkStation PSREF and in previous version. This edition might also include minor corrections and editorial changes which are not identified.

May 15, 2019 - Version 542
► New ThinkStation P330 Tower Gen 2/P330 SFF Gen 2 announced on April 2019
► Update ThinkStation P920/P720/P520 specifications, add Quadro RTX 8000, DDR4-2933, Xeon Scalable Gen 2

March 13, 2019 - Version 539
► Add Intel vPro information on ThinkStation P330 Tower/P330 SFF/P520c/P520/P720/P920

February 20, 2019 - Version 538
► New ThinkStation P330 Tower models announced on February 2019
► Update ThinkStation P920/P720/P520/P520c specifications, add Quadro RTX4000/5000/6000

August 22, 2018 - Version 529
► New ThinkStation P330 Tower/SFF/Tiny models announced on August 2018
► Update ThinkStation P920/P720 specifications, update flex bay and graphics adapter section

August 1, 2018 - Version 528
► New product ThinkStation P330 Tower/SFF/Tiny announced on July 2018
► Update ThinkStation P920/P720/P520/P520c, add Refresh 2.0 information
► Remove all MTM PNs from PDF version

June 20, 2018 - Version 526
► New ThinkStation P320 Tower models announced on June 2018
► Update ThinkStation P720 and P920 models, remove EOL models for US
► Update Windows 10 Pro 64 for Workstations for some ThinkStation P720/P920 models

May 30, 2018 - Version 525
► Added ThinkStation P720/P920 EMEA May 2018 models

April 18, 2018 - Version 523
► New ThinkStation P320 Tower/ P320 SFF/P520c/P520/P720/P920 models announced on April 2018

March 28, 2018 - Version 522
► New ThinkStation P320 Tower/ P320 SFF/P520c/P520/P920 announced on March 2018

March 7, 2018 - Version 521
► New ThinkStation P320 Tower/ P320 SFF/P720/P920 announced on February 2018

January 30, 2018 - Version 519
► New ThinkStation P520c and P520 announced on January 2018
► New ThinkStation P320 Tower/P320 SFF announced on January 2018

December 20, 2017 - Version 517
► New ThinkStation P920 models announced on December 2017
► Add Optional Ports on ThinkStation P320 Tiny

September 29, 2017 - Version 513
► New ThinkStation P920 and P720 announced on September 2017
► New ThinkStation P320 Tower/P320 SFF/P410/P510/P710/P910 announced on September 2017

September 12, 2017 - Version 512
► New ThinkStation P320 Tower and P320 SFF models announced on August 2017
August 23, 2017 - Version 511
► New ThinkStation P320 Tiny models announced on August 2017

August 2, 2017 - Version 510
► New ThinkStation P320 Tiny/P320 Tower/ P320 SFF/P410/P510 models announced on July 2017

June 21, 2017 - Version 508
► New ThinkStation P320 Tiny announced on June 2017

May 26, 2017 - Version 507
► Add ThinkStation P410/P510/P710/P910 Refresh 3.0 Wave 1 models and update platform specifications

April 19, 2017 - Version 505
► New ThinkStation P320 Tower announced on April 2017
► New ThinkStation P320 SFF announced on April 2017

March 29, 2017 - Version 504
► Added ThinkStation P310 Tower and SFF models announced on March 2017
► Added ThinkStation P410 models announced on March 2017

January 25, 2017 - Version 501
► Update quantity of PCIe SSD adapter in ThinkStation P510/P910

January 4, 2017 - Version 500
► Added ThinkStation P310 models announced on December 2016

December 14, 2016 - Version 499
► Added ThinkStation P410/P510/P710/P910 EMEA models
► Added 1TB M.2 PCIe SSD, Quadro P5000, Quadro P6000 support on ThinkStation P510/P710/P910
► Added Quadro P5000 support on ThinkStation P410
► Added 6TB 7.2K SATA6Gb/s HDD support on ThinkStation P410/P510/P710/P910
► Added ThinkStation P410/P510/P710/P910 models announced on December 2016

November 23, 2016 - Version 498
► Removed ThinkStation P500/P900 due to EOL
► Added ThinkStation P310 Tower and SFF models announced on November 2016

October 12, 2016 - Version 496
► Removed flash option on ThinkStation P510/P710/P910
► Added ThinkStation P310 Tower and SFF models announced on September 2016

August 3, 2016 - Version 493
► Removed ThinkStation P500/P700/P900 Windows 7 DG from Win8.1 U.S. models
► Added keyboard and mouse features on all ThinkStation

July 13, 2016 - Version 492
► Added ThinkStation P500, P700, and P900 Windows 10 downgrade to Windows 7 models
► Updated Maximum configuration weight of ThinkStation P410
► Added ThinkStation P710 and P910 models announced on on July 2016
► Added "Maximum drives in 3.5" bay" feature on ThinkStation P500/P510/P700/P710/P900/P910

June 22, 2016 - Version 491
► Added new product ThinkStation P410/P510
► Added NVIDIA Quadro M2000 on ThinkStation P310 Tower
► Added keyboard and mouse information on ThinkStation P710/P910
► Added internal USB information on ThinkStation P710/P910

June 2, 2016 - Version 490
► Added ThinkStation P710/P910 US models
► Updated ThinkStation P710/P910 processor information
May 19, 2016 - Version 489
► Added NVIDIA Quadro M2000 on compatible product
► Updated maximum weight on ThinkStation P710
► Removed 30AT000BUS

April 27, 2016 - Version 488
► Added ThinkStation P710 and P910 models for EMEA, announced on April 2016
► Updated Energy star information on ThinkStation P500/P700/P710/P900/P910

April 6, 2016 - Version 487
► New ThinkStation P710 and P910, announced April 5, 2016 (specification only)

March 23, 2016 - Version 486
► Added processors specifications for P310/P500/P700/P900

February 24, 2016 - Version 485
► Added ThinkStation P310 and P700 models for US, announced on February 2016
► Added ThinkStation P700 and P900 models for EMEA, announced on February 2016

December 9, 2015 - Version 482
► New ThinkStation P310 Tower and SFF, announced November 24, 2015

November 18, 2015 - Version 481
► Combines ThinkStation PSREF United States version and Western Europe version.
► Extends the supported GEO into Europe, Middle East and Africa.
► Covers all TopSeller and Relationship models for US and all focus models for EMEA
## ThinkStation P320 SFF Platform Specifications

### Components Specification

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chipset</strong></td>
<td>Intel C236 Chipset</td>
</tr>
<tr>
<td><strong>Intel AMT</strong></td>
<td>Intel Active Management Technology 11 on Xeon models, Intel Standard Manageability on other models</td>
</tr>
<tr>
<td><strong>Processor</strong></td>
<td>One Intel &quot;Kabylake&quot; or &quot;Skylake&quot; processor as listed: &quot;Kabylake*&lt;br&gt; Xeon E3-1280 v6&lt;br&gt; Xeon E3-1275 v6&lt;br&gt; Xeon E3-1270 v6&lt;br&gt; Xeon E3-1245 v6&lt;br&gt; Xeon E3-1240 v6&lt;br&gt; Xeon E3-1225 v6&lt;br&gt; Core i7-7700&lt;br&gt; Core i5-7600&lt;br&gt; Core i5-7400&lt;br&gt; Core i3-7300&lt;br&gt; Core i7-7700*&lt;br&gt; Xeon E3-1285 v6&lt;br&gt; Xeon E3-1275 v6&lt;br&gt; Xeon E3-1245 v6&lt;br&gt; Xeon E3-1240 v6&lt;br&gt; Xeon E3-1225 v6&lt;br&gt; Core i7-8700&lt;br&gt; Core i5-8600&lt;br&gt; Core i5-8400&lt;br&gt; Core i3-8300&lt;br&gt; &quot;Skylake&quot;&lt;br&gt; Xeon E3-1284 v5&lt;br&gt; Xeon E3-1274 v5&lt;br&gt; Xeon E3-1244 v5&lt;br&gt; Xeon E3-1240 v5&lt;br&gt; Xeon E3-1224 v5&lt;br&gt; Core i7-7900&lt;br&gt; Core i5-7800&lt;br&gt; Core i5-7500&lt;br&gt; Core i3-7400&lt;br&gt; Core i3-7300&lt;br&gt; Core i7-7700&lt;br&gt; Xeon E3-1287 v5&lt;br&gt; Xeon E3-1277 v5&lt;br&gt; Xeon E3-1247 v5&lt;br&gt; Xeon E3-1240 v5&lt;br&gt; Xeon E3-1227 v5&lt;br&gt; Core i7-8750&lt;br&gt; Core i5-8650&lt;br&gt; Core i5-8450&lt;br&gt; Core i3-8350&lt;br&gt; Intel AMT**&lt;br&gt; Intel Standard Manageability on Xeon models, Intel Standard Manageability on other models</td>
</tr>
<tr>
<td><strong>Memory DIMM slots</strong></td>
<td>4 DIMM slots, 2-channel (integrated memory controller in processor)</td>
</tr>
<tr>
<td><strong>Memory type/capacity</strong></td>
<td>Up to 64GB ECC/non-ECC (4 x 16GB), DDR4-2400. UDIMM. &quot;Skylake&quot; processor supports up to DDR4-2133. Core i7 and i5 processors cannot support ECC</td>
</tr>
<tr>
<td><strong>Intel HD Graphics in processor</strong></td>
<td>Integrated Intel HD P530 in Xeon E3-12x5 v5 processors, or Intel HD P630 in Xeon E3-12x5 v6 processors, or Intel HD 530 in Core i7, i5, or i3 6000 processors, or Intel HD 630 in Core i7, i5, or i3 7000 processors. Works along with discrete graphics to support multi-display, enables three display connectors (2 DP, 1 VGA) on rear.</td>
</tr>
<tr>
<td><strong>Discrete graphics</strong></td>
<td>Two PCI Express 3.0 x16 slots for graphics adapters. Up to two NVIDIA Quadro P1000. Supports the following NVIDIA graphic adapters:</td>
</tr>
<tr>
<td><strong>Adapter</strong></td>
<td>NVS 310&lt;br&gt; NVS 315&lt;br&gt; NVS 510&lt;br&gt; Quadro P400&lt;br&gt; Quadro P600&lt;br&gt; Quadro P1000&lt;br&gt; M.2 NVMe SSD, via PCIe adapter&lt;br&gt; 3.5&quot; SATA HDD (7.2K 6Gb/s) 512GB/1TB/2TB hybrid&lt;br&gt; 256GB Opal/512GB M.2 NVMe SSD, via PCIe adapter</td>
</tr>
<tr>
<td><strong>Onboard drive controller</strong></td>
<td>Five onboard SATA 6.0Gb/s connectors for optical and disk drives plus one SATA connector for optional eSATA. RAID 0, 1, 5, 6, 10, 50, 60, and 100 supported. RAID 5 needs three 2.5&quot; SSD drives.</td>
</tr>
<tr>
<td><strong>Drive Bays</strong></td>
<td>One external 5.25&quot; bay, one internal 3.5&quot; bay (see right). Up to one 9mm optical + 2 x 3.5&quot; disk drive bays + 1 x 2.5&quot; disk drive bay + two M.2 NVMe SSD</td>
</tr>
<tr>
<td><strong>Supporting disk drives</strong></td>
<td>256GB Opal/512GB/1TB/1TB Opal/2TB Opal&lt;br&gt; 256GB Opal/512GB M.2 NVMe SSD, via PCIe adapter&lt;br&gt; M.2 NVMe SSD, via PCIe adapter&lt;br&gt; Max internal storage 10TB (2 x 4TB 3.5&quot; HDs + 1 x 2TB 2.5&quot; SSD) plus two 1TB M.2 NVMe SSD</td>
</tr>
<tr>
<td><strong>Media reader</strong></td>
<td>9-in-1 card reader. Optional 29-in-1 card reader on selected models</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>210 watts with variable speed fan, autosensing. Climate Savers Computing Bronze, 80 PLUS Bronze qualified</td>
</tr>
<tr>
<td><strong>Onboard Ethernet</strong></td>
<td>One onboard gigabit ethernet, Intel I219LM, supports Wake-on-LAN</td>
</tr>
<tr>
<td><strong>HD Audio</strong></td>
<td>Realtek ALC662 codec</td>
</tr>
<tr>
<td><strong>TPM</strong></td>
<td>Standard, TCG 2.0-compliant</td>
</tr>
</tbody>
</table>

### Front ports Specification

- Two USB 3.0, microphone (3.5mm), headphone (3.5mm)
- 1 VGA and 2 DisplayPort (for Intel HD Graphics models only)
- two USB 2.0, four USB 3.0, one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)

### Rear ports Specification

- 4.02"W x 15.53"D x 13.31"H
- 102mm W x 394.5mm D x 338mm H
- 17.2 lb (7.9kg) max configuration
- 12.9-liter

### Mechanical Specification

- Raven black color; metal case
- ENERGY STAR 6.1 qualified
- GREENGUARD certified/RoHS-compliant/EPEAT Gold rating

### Environmental certifications

- 1 or 3-year limited onsite service with 9x5/NBD. Some parts are Customer Replaceable Units.
- Limited warranty

### ISV certifications

- Please visit [www.thinkworkstations.com/isv-certifications/](http://www.thinkworkstations.com/isv-certifications/)

### Drive Bays and PCIe Slots

- **Bay 1**: 5.25", supports one of the following: HH optical/flex module ("9mm optical+3.5" HDD bay/3.5" HDD bay/Front Access Storage Enclosure

- **Bay 2**: Optional 9-in-1 single slot reader

- **Bay 3**: Standard 3.5" HDD bay

- **Bay 4**: Optional 2.5" HDD bay (under Bay 3)

- **Bay 5-Slots**: Slot 1: Low Profile, PCIe 3.0 x16 (near CPU)

<table>
<thead>
<tr>
<th>Slot</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Low Profile, PCIe 3.0 x16 (near CPU)</td>
</tr>
<tr>
<td>2</td>
<td>Low Profile, PCIe 3.0 x1</td>
</tr>
<tr>
<td>3</td>
<td>Low Profile, PCIe 3.0 x16 (x4 elec)</td>
</tr>
<tr>
<td>4</td>
<td>Low Profile, PCIe 3.0 x1</td>
</tr>
<tr>
<td>5</td>
<td>Low Profile, PCIe 3.0 x1</td>
</tr>
</tbody>
</table>

### Product Specifications Reference (PSREF)

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*Figure 1: ThinkStation P320 SFF Platform Overview*
**ThinkStation P320 Tower Platform Specifications**

<table>
<thead>
<tr>
<th>Components</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chipset</td>
<td>Intel C236 Chipset</td>
</tr>
<tr>
<td>Intel AMT</td>
<td>Intel Active Management Technology 11 on Xeon models, Intel Standard Manageability on other models</td>
</tr>
<tr>
<td>Processor</td>
<td>One or two Quadro P1000 on 250 watts models, or up to two Quadro P2000, or up to one Quadro P4000 on 400 watts models. Supports the following NVIDIA graphics adapters:</td>
</tr>
<tr>
<td>Memory DIMM slots</td>
<td>4 DIMM slots, 2-channel (integrated memory controller in processor)</td>
</tr>
<tr>
<td>Memory type/capacity</td>
<td>Integrated Intel HD P530 in Xeon E3-12x5 v5 processors, or Intel HD P630 in Xeon E3-12x5 v6 processors, or Intel HD 630 in Core i7, i5, or i3 6000 processors. Intel HD 630 in Core i7, i5, or i3 7000 processors. Works along with discrete graphics to support multi-display, enables three display connectors (2 DP, 1 VGA) on rear.</td>
</tr>
<tr>
<td>Intel HD Graphics in processor</td>
<td>Two PCI Express 3.0 x16 slots for graphics adapters. Supports the following NVIDIA graphics adapters:</td>
</tr>
<tr>
<td><strong>Discrete graphics</strong></td>
<td>NVS 310 48 1GB 16.5W 2DP NVS 315 48 1GB 19.5W 2DP 2xDP NVS 510 192 2GB 33.4W 4xMini DP NVS 810 1024 4GB 68W 8xMini DP Quadro P400 256 2GB 30W 3xMini DP Quadro P600 384 2GB 40W 4xMini DP Quadro P1000 640 4GB 47W 4xMini DP Quadro P2000 1024 4GB 75W 4xDP Quadro P4000 1792 8GB 105W 4xDP</td>
</tr>
<tr>
<td>Onboard drive controller</td>
<td>Five onboard SATA 6Gb/s connectors for optical and disk drives plus one SATA connector for optional eSATA. RAID 0, 1, 5, 10 support</td>
</tr>
<tr>
<td><strong>Drive Bays</strong></td>
<td>Two external 5.25” bays, two internal 3.5” bays (see right). Up to one 9mm optical plus 4 x 3.5” disk drive bays plus two M.2 NVMe SSD</td>
</tr>
<tr>
<td><strong>Supporting disk drives</strong></td>
<td>3.5” SATA HDD (7.2K Gb/s) 8T/2T/4T/1T hybrid</td>
</tr>
<tr>
<td>Max internal storage</td>
<td>16TB (4 x 4TB 3.5” HDDs) plus 2TB (2 x 1TB) M.2 NVMe SSD</td>
</tr>
<tr>
<td>Media reader</td>
<td>9-in-1 card reader. Optional 29-in-1 card reader on selected models</td>
</tr>
</tbody>
</table>
ThinkStation P330 SFF Platform Specifications

**Components** | **Specification**
--- | ---
**Machine Type** | MT 30C7 for Transactional model and MT 30C8 for Relationship model. For configuration of all 30C7 EMEA and US models, please visit: [http://psref.lenovo.com/Product/ThinkStation/ThinkStation_P330_SFF](http://psref.lenovo.com/Product/ThinkStation/ThinkStation_P330_SFF)
**Form factor** | 8.4L mini-tower
**Dimensions** | Height: 343.5 mm (13.5 in). Width: 92.5 mm (3.6 in). Depth: 305.6 mm (12 in)
**Weight** | 13.23 lb (6.0kg)
**Processor** | Up to two Intel Xeon E-2100 family processors, up to 80W, up to 6 cores at 3.7GHz, up to 3.8GHz with 4 cores, up to 12MB cache, DDR4-2666 memory speed.
| Or up to one 8th Intel Core family processor, i7, i5, or i3, up to 65W, up to 6 cores at 3.2GHz, up to 3.7GHz with 4 cores, up to 12MB cache, up to DDR4-2666 memory speed.
| Or up to one Intel Pentium G5400 via Special Bids, 58W, 2 cores at 3.7GHz, 4MB cache, DDR4-2400 memory speed
**Chipset** | Intel C246 Chipset
**Memory protection** | Ecc with ECC UDIMM. Core i7 and i5 processors cannot support ECC UDIMM
**Memory** | Up to 64GB with 4x 16GB, both ECC and non-ECC memory types cannot be intermixed
**Memory capacity** | Up to 64GB with 4x 16GB, both ECC and non-ECC memory types cannot be intermixed
**Memory slots** | 4 DIMM sockets. DDR4-2666. UDIMM. ECC and non-ECC are supported, but memory types cannot be intermixed
**Graphics - Processor graphics** | Integrated Intel UHD Graphics P630 in -G suffix Xeon processors, or Intel UHD Graphics 630 in Core i7, i5, or i3 processors, or Intel UHD Graphics 610 in Pentium Gold G5400.
| Works along with discrete graphics to support multi-display, enables three display connectors (2x DP, 1x HDMI. HDMI is optional) on rear
**Graphics - Discrete graphics card** | Up to two PCIe 3.0 x16 slots for discrete graphics adapter (Slot 1 and 3). Supports the following graphics adapters:
| Adapter: Quadro P4000 | Cores: 256 | Memory: 2GB GDDR5 | Power: 30W | Connectors: 4x miniDP | Max qty: 2
| Adapter: Quadro P620 | 512 | 2GB GDDR5 | 40W | 4x miniDP | 2
| Adapter: Quadro P1000 | 640 | 4GB GDDR5 | 47W | 4x miniDP | 2
**Storage controllers** | Integrated Intel SATA AHCI/RAID controller in chipset, 6Gbps SATA, RAID 0/1. Four onboard SATA ports for max 4 SATA HDD/SSD/ODD
**Internal storage bay** | Up to 3 bays with two disk bays and one slim optical bay:
| Bay 1 | Primary 3.5" SATA bay
| Bay 2 | 2.5" SATA bay
| Bay 3 | 3mm Slim ODD bay
**Disks** | 3.5" HDD supports up to 4TB each, 6Gbps SATA, 7.2K.
| 2.5" SSD supports up to 1TB each, 6Gbps SATA
**M.2 slot for SSD** | Up to 3x M.2 SSD with one dedicated onboard M.2 slot plus two PCIe to M.2 adapters. PCIe to M.2 adapter uses slot 1 or 3. Supports RAID 0/1 with PCH, When used as RAID, M.2 SSD should be installed in onboard M.2 slot and slot 3.
| Up to one Optane memory per system; Optane memory must work with a HDD or SSD; Optane memory cannot supported on Pentium G5400 models
**M.2 SSD** | M.2 SSD supports up to 1TB each, PCIe 3.0 x4, NVMe, Opal.
| Optane memory supports 32GB, PCIe 3.0 x2, NVMe, 3D Xpoint
**M.2 slot for Wi-Fi and Bluetooth** | One dedicated onboard M.2 slot for optional Intel Wireless-AC 9560, 2x2, 2.4GHz/5GHz (160MHz channels), 802.11ac, Bluetooth 5, up to 1.73Gbps

**Components** | **Specification**
--- | ---
**Media reader** | Optional SD card reader on most models
**Network interfaces** | One onboard GbE port via integrated gigabit ethernet Intel i219LM, supports Wake-on-LAN. Optional PCIe ethernet adapters are available
**Security features** | Power-on and admin password. Trusted Platform Module. TCG 2.0 compliant. Optional chassis intrusion switch, cable lock, Kensington lock, and padlock
**Intel vPro** | Supports Intel vPro on Xeon models. vPro also requires Wireless-AC 9560 if Wi-Fi is needed
**Intel AMT** | Intel AMT Intel Active Management Technology 12 on Xeon models. Intel Standard Manageability on other models
**Base warranty** | US models comes with 3-year limited onsite service with 9x5/NBD
| 1 or 3-year limited onsite service with 9x5/NBD or other GEOs
**HD Audio** | Intel HD Audio interface with Realtek ALC233 Codec
**Front ports** | 2x USB 3.1 Gen 1 Type A, 2x USB 3.1 Gen 2 Type A. 1x USB 3.1 Gen 1 Type-C, 1x Mic-in, 1x Combo jack
**Rear ports** | 2x USB 3.1 Gen 1 Type A. 1x RJ-45. 1x COM. 2x DP. Notes: DP needs Core, Pentium, or -G suffix Xeon processor
**Optional rear ports** | 2x USB 3.1 Type-C. 1x COM. PS/2. 1x Parallel. 1x Thunderbolt. 1x IEEE1394. 1x HDMI. 1x Audio line-out
**Rear ports** | Notes: HDMI needs Core, Pentium, or -G suffix Xeon processor
**Temperature** | Operating: 41 °F to 104 °F (10 °C to 35 °C)
| Non operating (no package): 14 °F to 104 °F (-10 °C to 60 °C)
| Non operating (with package): 40 °F to 104 °F (-40 °C to 60 °C)
**Altitude** | Operating: -15.2 m (-50 ft) to 3048 m (10 000 ft).
| Storage: -15.2 m (-50 ft) to 10, 688 m (35 000 ft)
**Humidity** | Operating: 30%~90%, non-condensing
| Storage (package): 20%~90%, non-condensing
**Environmental certification** | RoHS-compliant. GREENGUARD. EPEAT Gold rating and ENERGY STAR 7 qualified
**Power supply** | Supports one 210W or 260W power supply.
| 210W is 100V - 240V, 85% PSU, Climate Savers Computing Bronze and 80 PLUS Bronze qualified.
| 260W is 100V - 240V, 92% PSU, Climate Savers Computing Platinum and 80 PLUS Platinum qualified
**ISV certifications** | Please visit [www.thinkworkstations.com/isv-certifications](http://www.thinkworkstations.com/isv-certifications)

Note:
1. Depending on many factors, actual data transfer speed mentioned on this page may be lower than theoretical speed.
2. Any questions or advice on ThinkStation PSREF, please contact ThinkStation PSREF developer
ThinkStation P330 SFF Gen 2 (30D1 and 30D2) Platform Specifications

### Components Specification

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form factor</td>
<td>8.4L mini-tower</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Height: 343.5 mm (13.5 in). Width: 92.5 mm (3.6 in). Depth: 305.6 mm (12 in)</td>
</tr>
<tr>
<td>Weight</td>
<td>Maximum configuration: 13.23 lb (6.0kg)</td>
</tr>
<tr>
<td>Processor</td>
<td>Supports one of the following processors:</td>
</tr>
<tr>
<td></td>
<td>* Xeon E-2174G 4C/8T/3.8GHz/8MB/71W/DDR4-2666</td>
</tr>
<tr>
<td></td>
<td>* Core i5-9400 6C/6T/2.9GHz/9MB/65W/DDR4-2666</td>
</tr>
<tr>
<td></td>
<td>* Core i3-8300 4C/4T/3.7GHz/8MB/62W/DDR4-2400</td>
</tr>
<tr>
<td></td>
<td>* Core i3-8100 4C/4T/3.6GHz/6MB/65W/DDR4-2400</td>
</tr>
<tr>
<td>Note:</td>
<td>Next gen Xeon processors and more 9th Core processors will be supported on June 2019</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel C246 Chipset</td>
</tr>
<tr>
<td>Memory Sockets</td>
<td>4 DIMM sockets with 2 channels</td>
</tr>
<tr>
<td>Memory Types</td>
<td>8GB/16GB DDR4-2666 UDIMM ECC or 4GB/8GB/16GB DDR4-2666 UDIMM non-ECC</td>
</tr>
<tr>
<td>Memory Capacity</td>
<td>64GB with 4 x 16GB, both UDIMM ECC or UDIMM non-ECC</td>
</tr>
<tr>
<td>Memory Protection</td>
<td>ECC on models with UDIMM ECC memory</td>
</tr>
<tr>
<td>Expansion slots</td>
<td>Three PCIe 3.0 slots as following:</td>
</tr>
<tr>
<td></td>
<td>Slot 1 PCIe 3.0 x16, low profile, links to CPU</td>
</tr>
<tr>
<td></td>
<td>Slot 2 PCIe 3.0 x1, low profile, links to PCH</td>
</tr>
<tr>
<td></td>
<td>Slot 3 PCIe 3.0 x16 (negotiable link width x4), low profile, links to PCH</td>
</tr>
<tr>
<td>Processor graphics</td>
<td>Integrated Intel UHD Graphics P630 in -G suffix Xeon processors, or Intel UHD Graphics 630 in Core i5 or i3 processors. Works along with discrete graphics to support multi-display, enables three rear display connectors (2 DP standard, 1 DP or HDMI optional)</td>
</tr>
<tr>
<td>Discrete graphics card</td>
<td>Up to two PCIe 3.0 x16 slots for discrete graphics adapter (Slot 1 and 3). Supports the following graphics adapters:</td>
</tr>
<tr>
<td></td>
<td>Quadro P400 256 2GB GDDR5 30W 4x miniDP 2</td>
</tr>
<tr>
<td></td>
<td>Quadro P620 512 2GB GDDR5 40W 4x miniDP 2</td>
</tr>
<tr>
<td></td>
<td>Quadro P1000 640 4GB GDDR5 47W 4x miniDP 2</td>
</tr>
<tr>
<td>Storage Controller</td>
<td>Storage Controller Type Interface Disk Type RAID</td>
</tr>
<tr>
<td></td>
<td>Onboard Intel RST SATA RAID Std SATA 6Gb/s HDD or SSD 0/1</td>
</tr>
<tr>
<td></td>
<td>Onboard Intel RST PCIE RAID Std PCIE NVM 0/1</td>
</tr>
<tr>
<td>Storage Support</td>
<td>Disk Type Interface RPM Offering Max Qty</td>
</tr>
<tr>
<td></td>
<td>3.5&quot; SATA HDD SATA 6Gb/s 7.2K 1TB/2TB/4TB 4</td>
</tr>
<tr>
<td></td>
<td>2.5&quot; SATA HDD SATA 6Gb/s 7.2K 500GB/FIPS 3</td>
</tr>
<tr>
<td></td>
<td>2.5&quot; SATA SSD SATA 6Gb/s 256GB/512GB/1TB 3</td>
</tr>
<tr>
<td></td>
<td>Optane Memory PCIE NVM 32GB 1, used with HDD/SSD</td>
</tr>
<tr>
<td></td>
<td>M.2 PCIE SSD PCIE NVM 256GB/512GB/1TB 3</td>
</tr>
<tr>
<td>Storage bay</td>
<td>Up to 3 bays with two disk bays and one slim optical bay</td>
</tr>
<tr>
<td></td>
<td>Bay 1 Primary 3.5&quot; SATA bay</td>
</tr>
<tr>
<td></td>
<td>Bay 2 2.5&quot; SATA bay</td>
</tr>
<tr>
<td></td>
<td>Bay 3 9mm Slim ODD bay</td>
</tr>
<tr>
<td>M.2 slot for Wi-Fi and Bluetooth</td>
<td>One dedicated onboard M.2 slot for optional Intel Wireless-AC 0560, 2x2, 2.4GHz/5GHz (160MHz channels), 802.11ac, Bluetooth 5, up to 1.73Gbps</td>
</tr>
<tr>
<td>Media reader</td>
<td>Optional SD card reader on most models</td>
</tr>
<tr>
<td>Network interfaces</td>
<td>One onboard GbE port via integrated gigabit ethernet Intel i219LM, supports Wake-on-LAN. Optional PCIE ethernet adapters are available</td>
</tr>
<tr>
<td>Security features</td>
<td>Power-on and admin password. Trusted Platform Module, TCG 2.0 compliant.</td>
</tr>
</tbody>
</table>

### Components Specification

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel vPro</td>
<td>Supports Intel vPro on Xeon models.</td>
</tr>
<tr>
<td></td>
<td>vPro also requires Wireless-AC 0560 if Wi-Fi is needed</td>
</tr>
<tr>
<td>Intel AMT</td>
<td>Intel Active Management Technology 12 on Xeon models.</td>
</tr>
<tr>
<td></td>
<td>Intel Standard Manageability on other models</td>
</tr>
<tr>
<td>Base warranty</td>
<td>US models comes with 3-year limited onsite service with 9x5/NBD</td>
</tr>
<tr>
<td></td>
<td>1 or 3-year limited onsite service with 9x5/NBD in EMEA or other GEOs</td>
</tr>
<tr>
<td>HD Audio</td>
<td>Intel HD Audio interface with Realtek ALC233 Codec</td>
</tr>
<tr>
<td>Front ports</td>
<td>2x USB 3.1 Gen 1 Type A, 2x USB 3.1 Gen 2 Type A, 1x USB 3.1 Gen 1 Type-C. 1x Mic-in. 1x Combo jack</td>
</tr>
<tr>
<td>Rear ports</td>
<td>2x USB 3.1 Gen 1 Type A, 2x USB 2.0 Type-A, 1x RJ-45. 1x COM. 2x DP.</td>
</tr>
<tr>
<td></td>
<td>Notes: DP needs Core, Pentium, or -G suffix Xeon processor</td>
</tr>
<tr>
<td>Optional rear ports</td>
<td>Supports the following via cable:</td>
</tr>
<tr>
<td></td>
<td>1x COM. 1x Parallel. 2x PS/2. 1x DP or 1x HDMI. 2x USB 2.0</td>
</tr>
<tr>
<td></td>
<td>Supports the following via PCIe adapter:</td>
</tr>
<tr>
<td></td>
<td>4x COM. 2x USB 3.1 Type-C. 2x USB 3.0. 1x Thunderbolt.</td>
</tr>
<tr>
<td>Temperature</td>
<td>Operating: 41 °F to 104 °F (10 °C to 35 °C)</td>
</tr>
<tr>
<td></td>
<td>Non operating (no package): 14 °F to 140 °F (-10 °C to 60 °C)</td>
</tr>
<tr>
<td></td>
<td>Non operating (with package): 40 °F to 140 °F (-40 °C to 60 °C)</td>
</tr>
<tr>
<td>Altitude</td>
<td>Operating: -15.2 m (-50 ft) to 3048 m (10 000 ft)</td>
</tr>
<tr>
<td></td>
<td>Storage: -15.2 m (-50 ft) to 10, 688 m (35 000 ft)</td>
</tr>
<tr>
<td>Humidity</td>
<td>Operating: 30%~90%, non-condensing</td>
</tr>
<tr>
<td></td>
<td>Storage (with package): 20%~90%, non-condensing</td>
</tr>
<tr>
<td>Environmental certification</td>
<td>RoHS-compliant. GREENGUARD. EPEAT Gold rating and ENERGY STAR 7 qualified</td>
</tr>
<tr>
<td>Power supply</td>
<td>Supports one 210W or 260W power supply.</td>
</tr>
<tr>
<td></td>
<td>210W is 100V - 240V, 85% PSU, Climate Savers Computing Bronze and 80 PLUS Bronze qualified. 260W is 100V - 240V, 92% PSU, Climate Savers Computing Platinum and 80 PLUS Platinum qualified</td>
</tr>
<tr>
<td>SV certifications</td>
<td>Please visit <a href="http://www.thinkworkstations.com/isv-certifications/">www.thinkworkstations.com/isv-certifications/</a></td>
</tr>
</tbody>
</table>

Note: 1. Depending on many factors, actual data transfer speed mentioned on this page may be lower than theoretical speed.
2. Any questions or advice on ThinkStation PSREF, please contact ThinkStation PSREF developer.

Lenovo, March 2019
ThinkStation P330 Tiny Platform Specifications

<table>
<thead>
<tr>
<th>Components</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine Type</td>
<td>MT 30CF for Transactional model and MT 30CE for Relationship model.</td>
</tr>
<tr>
<td>Form factor</td>
<td>1L Optional VESA mount bracket kit, supports VESA 75mm and 100mm.</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Height: 179 mm (7.0 in), Width: 36.5 mm (1.437 in), Depth: 182.9 mm (7.2 in)</td>
</tr>
<tr>
<td>Weight</td>
<td>Maximum configuration: 3.08 lb (1.4kg)</td>
</tr>
<tr>
<td>Processor</td>
<td>Up to one Intel Core family processor, i7, i5, or i3. Core i7 supports 65W or 35W, 6 cores, up to 3.2GHz, 12MB cache, DDR4-2666 memory speed. Core i5 supports 65W or 35W, 6 cores, up to 3.1GHz, 9MB cache, DDR4-2666 memory speed. Core i3 supports 65W, 62W, or 35W, 4 cores, up to 3.7GHz, 6MB or 8MB cache, DDR4-2400 memory speed.</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel Q370 Chipset</td>
</tr>
<tr>
<td>Memory</td>
<td>2 DIMM sockets. DDR4-2666, SoDIMM. Non-ECC</td>
</tr>
<tr>
<td>Expansion slots</td>
<td>One PCIe slot via specific riser card: PCIe 3.0 x16 (negotiable link width x8) and low profile for discrete graphics card; PCIe 3.0 x4 and low profile for (350-T4 adapter and quad COM ports adapter)</td>
</tr>
<tr>
<td>Graphics</td>
<td>65W or 62W processor models supports processor graphics only. 35W processor models come with processor graphics plus a discrete graphics adapter</td>
</tr>
<tr>
<td>Graphics - Processor graphics</td>
<td>Integrated Intel UHD Graphics 630. Works along with discrete graphics to support multi-display.</td>
</tr>
<tr>
<td>Graphics - Discrete graphics card</td>
<td>One of the following discrete graphics cards on 35W processor models:</td>
</tr>
<tr>
<td></td>
<td>Adapter</td>
</tr>
<tr>
<td></td>
<td>Quadro P620</td>
</tr>
<tr>
<td></td>
<td>Quadro P1000</td>
</tr>
<tr>
<td>Storage controllers</td>
<td>Integrated Intel SATA AHCI controller in chipset, 6Gbps SATA, one onboard SATA port for 2.5” HDD</td>
</tr>
<tr>
<td>Internal storage bay</td>
<td>Up to one 2.5” HDD</td>
</tr>
<tr>
<td>Disks</td>
<td>2.5” HDD supports up to 1TB, 6Gbps SATA, 7.2K or 5.4K</td>
</tr>
<tr>
<td>M.2 slot for SSD</td>
<td>Two onboard M.2 slots for M.2 SSD, one for M.2 2280 SSD, one for M.2 2280 or 2242 SSD</td>
</tr>
<tr>
<td>M.2 SSD</td>
<td>M.2 2280 SSD supports up to 1TB each, PCIe 3.0 x4, NVMe, optional Opal. M.2 2242 SSD supports up to 128GB, PCIe 3.0 x2, NVMe</td>
</tr>
<tr>
<td>Optane memory</td>
<td>Up to one 16GB Optane memory per system. Optane memory must work with a 2.5” HDD</td>
</tr>
<tr>
<td>M.2 slot for Wi-Fi and Bluetooth</td>
<td>One dedicated M.2 2230 slot for optional Wi-Fi card, supports one of the following: Intel Wireless-AC 9560, 2x2, 2.4GHz/5GHz (160MHz channels), 802.11ac, Bluetooth 5, up to 1.73Gbps. Intel Wireless-AC 8265, 2x2, 2.4GHz/5GHz, 802.11ac, Bluetooth 4.2, up to 867Mbps. Note: Wi-Fi card, or specific functions of Wi-Fi card may not be supported in some countries.</td>
</tr>
<tr>
<td>Wi-Fi antenna</td>
<td>Optional Tiny 2.4GHz/5GHz SMA antenna kit</td>
</tr>
<tr>
<td>Optical</td>
<td>Optional one 9.0mm optical drive via optical drive kit, DVD-ROM or DVD±RW. VESA mount is required.</td>
</tr>
<tr>
<td>Media reader</td>
<td>None. Using USB adapter</td>
</tr>
<tr>
<td>Network interfaces</td>
<td>One onboard GbE port via integrated gigabit ethernet Intel i219LM, supports Wake-On-LAN. Optional Intel I350-T4 for 4x GbE ports, using PCIe slot</td>
</tr>
<tr>
<td>Security features</td>
<td>Power-on and admin password. Trusted Platform Module, TCG 2.0 compliant. Chassis intrusion switch. Optional Kensington lock</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology</td>
<td>Intel vPro supports vPro on models with the following processors: Core i7-8700T, Core i7-8700, Core i5-8600T, Core i5-8600, Core i5-8500T, Core i5-8500. vPro also requires Wireless-AC 9560 if Wi-Fi is needed.</td>
</tr>
<tr>
<td>Systems management</td>
<td>Intel Active Management Technology 12 on vPro models, Intel Standard Manageability on other models</td>
</tr>
<tr>
<td>Base warranty</td>
<td>US models comes with 3-year limited onsite service with 9x5/NBD. 1 or 3-year limited onsite service with 9x5/NBD in EMEA or other GEOs</td>
</tr>
<tr>
<td>HD Audio</td>
<td>Intel HD Audio interface with Realtek ALC233 Codec</td>
</tr>
<tr>
<td>Standard ports</td>
<td>1x USB 3.1 Gen 1 Type A (charging). 1x USB 3.1 Gen 1 Type-C. 1x Mic-in. 1x Combo jack</td>
</tr>
<tr>
<td>Rear standard ports</td>
<td>Up to two optional rear ports via punch out cable. Port 1 supports one of the following: 1x USB 3.1 Gen 1 Type-C, also supports DP function. 1x COM. 1x VGA. 1x DP. 1x HDMI. Port 2 supports one COM</td>
</tr>
<tr>
<td>Optional rear ports</td>
<td>Supports one of the following: 4x miniDP with Quadro P620 or P1000, 35W processor models only 2x USB 3.1 Gen 1. 4x RJ-45 GBE with Intel I350-T4. 4x COM Note: Punch out cable and PCIe adapter are mutually exclusive</td>
</tr>
<tr>
<td>via punch out cable</td>
<td>Temperature Operating: 60 °F to 95 °F (10 °C to 35 °C) Non operating (with package): -40 °F to 140 °F (-40 °C to 60 °C)</td>
</tr>
<tr>
<td></td>
<td>Altitude Operating: -15.2 m (-50 ft) to 3048 m (10 000 ft). Storage: -15.2 m (-50 ft) to 10, 688 m (35 000 ft)</td>
</tr>
<tr>
<td></td>
<td>Humidity Operating: 20%~80%, non-condensing Storage (with package): 20%~90%, non-condensing</td>
</tr>
<tr>
<td></td>
<td>MIL-SPEC Certified</td>
</tr>
<tr>
<td></td>
<td>Environmental certification RoHS-compliant. GREENGUARD. EPEAT Gold rating and ENERGY STAR 7 qualified</td>
</tr>
<tr>
<td></td>
<td>Power supply Supports one 135W power adapter, 100V - 240V, 88% PSU</td>
</tr>
<tr>
<td></td>
<td>SV certifications Please visit <a href="http://www.thinkworkstations.com/sv-certifications">www.thinkworkstations.com/sv-certifications</a></td>
</tr>
</tbody>
</table>

Lenovo, July 2018
ThinkStation P330 Tower Platform Specifications

<table>
<thead>
<tr>
<th>Components</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine Type</td>
<td>MT 30C5 for Transactional model and MT 30C6 for Relationship model. For configuration of all 30C5 EMEA and US models, please visit <a href="http://psref.lenovo.com/Product/ThinkStation/ThinkStation_P330_Tower">here</a></td>
</tr>
<tr>
<td>Form factor</td>
<td>18L Tower</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Height: 376 mm (14.8 in). Width: 165 mm (6.5 in). Depth: 328 mm (12.9 in)</td>
</tr>
<tr>
<td>Weight</td>
<td>Maximum configuration: 23.4 lb (10.6kg)</td>
</tr>
<tr>
<td>Processor</td>
<td>Up to one Intel Xeon E family processor, up to 95W, up to 6 cores at 3.8GHz, up to 125MB cache, up to DDR4-2666 memory speed. Or up to one 8th Intel Core family processor, i7, i5, or i3, up to 95W, up to 6 cores at 3.7GHz, up to 12MB cache, up to DDR4-2666 memory speed. Or up to one Intel Pentium Gold G5400 via Special Bids, 54W, 2 cores at 3.7GHz, 4MB cache, DDR4-2400 memory speed</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel C246 Chipset</td>
</tr>
<tr>
<td>Memory</td>
<td>4 DIMM sockets. DDR4-2666. UD IMM. ECC and non-ECC are supported, but memory types cannot be intermixed</td>
</tr>
<tr>
<td>Memory capacity</td>
<td>Up to 64GB with 4x 16GB, both ECC and non-ECC</td>
</tr>
<tr>
<td>Memory protection</td>
<td>ECC with ECC UD IMM. Core i7 and i5 processors cannot support ECC UD IMM</td>
</tr>
<tr>
<td>Expansion slots</td>
<td>Three PCIe 3.0 slots as follows: Slot 1 PCIe 3.0 x16, full height, full length, links to CPU Slot 2 PCIe 3.0 x16, full height, full length, links to PCI Slot 3 PCIe 3.0 x16 (negotiable link width x4), full height, half length, links to PCH</td>
</tr>
<tr>
<td>Graphics - Processor graphics</td>
<td>Integrated Intel UHD Graphics P630 in -G suffix Xeon processors, or Intel UHD Graphics 630 in Core i7, i5, or i3 processors, or Intel UHD Graphics 610 in Pentium Gold G5400. Works along with discrete graphics to support multi-display, enables three display connectors (2x DP, 1x HDMI, HDMI is optional) on rear. Up to two PCIe 3.0 x16 slots for discrete graphics card (Slot 1 and 3). Supports the following graphics adapters: Adapter</td>
</tr>
<tr>
<td></td>
<td>Cores Memory Power</td>
</tr>
<tr>
<td>NVS 810</td>
<td>1024 4GB DDR3</td>
</tr>
<tr>
<td>Quadro P4000</td>
<td>256 2GB GDDR5</td>
</tr>
<tr>
<td>Quadro P620</td>
<td>512 2GB GDDR5</td>
</tr>
<tr>
<td>Quadro P1000</td>
<td>640 4GB GDDR5</td>
</tr>
<tr>
<td>Quadro P2000</td>
<td>1024 5GB GDDR5</td>
</tr>
<tr>
<td>Quadro P4000</td>
<td>1792 8GB GDDR5</td>
</tr>
<tr>
<td>Geforce GTX 1060</td>
<td>1280 8GB GDDR5</td>
</tr>
<tr>
<td>Geforce GTX 1070</td>
<td>1920 8GB GDDR5</td>
</tr>
<tr>
<td>Geforce GTX 1080</td>
<td>2560 8GB GDDR5X</td>
</tr>
<tr>
<td>Radeon Pro WX 3100</td>
<td>512 4GB GDDR5</td>
</tr>
<tr>
<td>Radeon Pro WX 4100</td>
<td>1024 4GB GDDR5</td>
</tr>
<tr>
<td>Storage controllers</td>
<td>Integrated Intel SATA AHCI/RAID controller in chipset, 6Gbps SATA, RAID 0/1/10/5. Four onboard SATA ports for max 4 SATA HDD/SSD/ODD. Up to five bays with four disk bays plus one slim optical bay, supports up to 3x 3.5” HDD plus 1x 2.5” SSD, or 4x 2.5” SSD</td>
</tr>
<tr>
<td>Internal storage bay</td>
<td>Bay 1 Primary disk bay, 3.5” or 2.5”</td>
</tr>
<tr>
<td></td>
<td>Bay 2 2.5” SATA bay, cannot be available when 2nd Quadro P2000 is used</td>
</tr>
<tr>
<td></td>
<td>Bay 3 Secondary disk bay, 3.5” or 2.5”</td>
</tr>
<tr>
<td></td>
<td>Bay 4 5.25” Flex bay, supports one of the following: • Flex module for optional front cSAT/Thunderbolt/IEEE1394 • 3rd disk bay, 3.5” or 2.5”, removable, via Front Access Storage Enclosure, using SATA 4 connector as eSATA mode • 3rd disk bay, 3.5” or 2.5”, via 5.25” to 3.5” HDD Kit • M.2 drive, via Front removable M.2 enclosure, also occupies slot 1 or 3</td>
</tr>
<tr>
<td></td>
<td>Bay 5 9mm Slim ODD bay</td>
</tr>
<tr>
<td>Disks</td>
<td>3.5” HDD supports up to 4TB each, 6Gbps SATA, 2.5” SSD supports up to 1TB each, 6Gbps SATA</td>
</tr>
</tbody>
</table>

Components | Specification |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>M.2 slot for SSD</td>
<td>Up to 3x M.2 SSD with one dedicated onboard M.2 slot plus two PCIe to M.2 adapters. PCIe to M.2 adapter uses slot 1 or 3. Supports RAID 0/1 with PCH, When used as RAID, M.2 SSD should be installed on onboard M.2 slot and slot 3. Up to one Optane memory per system; Optane memory must work with a SSD or SSD; Optane memory cannot supported on Pentium G5400 models</td>
</tr>
<tr>
<td>M.2 SSD</td>
<td>M.2 SSD supports up to 1TB each, PCIe 3.0 x4, NVMe, Opal. Optane memory supports 32GB, PCIe 3.0 x2, NVMe, 3D Xpoint</td>
</tr>
<tr>
<td>M.2 slot for Wi-Fi and Bluetooth</td>
<td>One dedicated onboard M.2 slot 2 for optional Intel Wireless-AC 9560, 2x2, 2.4GHz/5GHz (160MHz channels), 802.11ac, Bluetooth 5, up to 1.73Gbps</td>
</tr>
<tr>
<td>Media reader</td>
<td>Optional SD card reader on most models</td>
</tr>
<tr>
<td>Network interfaces</td>
<td>One onboard Gbe port via integrated gigabit ethernet Intel i219LM, supports Wake-on-LAN. Optional PCIe ethernet adapters are available</td>
</tr>
<tr>
<td>Security features</td>
<td>Power-on and admin password, Trusted Platform Module, TCG 2.0 compliant. Optional chassis intrusion switch, cable lock, Kensington lock, and pad lock</td>
</tr>
<tr>
<td>Intel vPro</td>
<td>Supports Intel vPro on Xeon models. vPro also requires Wireless-AC 9560 if Wi-Fi is needed</td>
</tr>
<tr>
<td>Intel AMT</td>
<td>Intel Active Management Technology 12 on Xeon models, Intel Standard Manageability on other models</td>
</tr>
<tr>
<td>Base warranty</td>
<td>US models comes with 3-year limited onsite service with 9x5/NBD. 1 or 3-year limited onsite service with 9x5/NBD in EMEA or other GEOs</td>
</tr>
<tr>
<td>HD Audio</td>
<td>Intel HD Audio interface with Realtek ALC232 Codec</td>
</tr>
<tr>
<td>Front ports</td>
<td>2x USB 3.1 Gen 1 Type A, 2x USB 3.1 Gen 2 Type A. 1x USB 3.1 Gen 1 Type-C. 1x Mic-in. 1x Combo jack</td>
</tr>
<tr>
<td>Rear ports</td>
<td>2x USB 3.1 Gen 1 Type A, 2x USB 2.0 Type-A. 1x RJ-45. 1x COM. 2x DP. 1x Audio line-out</td>
</tr>
<tr>
<td>Optional rear ports (on flex module)</td>
<td>Notes: DP needs Core, Pentium, or -G suffix Xeon processor</td>
</tr>
<tr>
<td>Optional front ports (on flex module)</td>
<td>2x Thunderbolt (USB Type-C), one of two ports supports video-out. 1x eSATA. 1x IEEE1394</td>
</tr>
<tr>
<td>Power supply</td>
<td>One dedicated onboard M.2 slot plus two PCIe to M.2 adapters. PCIe to M.2 adapter uses slot 1 or 3. Supports RAID 0/1 with PCH, When used as RAID, M.2 SSD should be installed on onboard M.2 slot and slot 3. Up to one Optane memory per system; Optane memory must work with a SSD or SSD; Optane memory cannot supported on Pentium G5400 models</td>
</tr>
<tr>
<td>Environmental</td>
<td>Operating: 10°F to 104°F (10°C to 40°C) Non operating (no package): 14°F to 140°F (-10°C to 60°C) Non operating (with package): -40°F to 140°F (-40°C to 60°C)</td>
</tr>
<tr>
<td>Humidity</td>
<td>Operating: 30% – 90%, non-condensing Storage: 20% – 90%, non-condensing</td>
</tr>
<tr>
<td>Certification</td>
<td>RoHS-compliant. GREENGUARD, EPEAT Gold rating and ENERGY STAR 7 qualified</td>
</tr>
<tr>
<td>Power supply</td>
<td>Supports one 250W or 400W power supply. 100V - 240V, 92% PSU. Climate Savers Computing Platinum and 80 PLUS Platinum qualified. 400W PSU supports one 6-2pin aux power connector.</td>
</tr>
<tr>
<td>ISV certifications</td>
<td>Please visit <a href="http://www.thinkworkstations.com/isv-certifications">www.thinkworkstations.com/isv-certifications</a></td>
</tr>
</tbody>
</table>

Notes:
1. Depending on many factors, actual data transfer speed mentioned on this page may be lower than theoretical speed. 2. Any questions or advice on ThinkStation PSREF, please contact ThinkStation PSREF developer.
<table>
<thead>
<tr>
<th>Components</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form factor</td>
<td>18L Tower</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Height: 376 mm (14.8 in). Width: 165 mm (6.5 in). Depth: 328 mm (12.9 in)</td>
</tr>
<tr>
<td>Weight</td>
<td>Maximum configuration: 28.22 lb (12.8kg)</td>
</tr>
</tbody>
</table>
| Processor | Supports one of the following processors:  
  - Xeon E-2186G 6C/12T/3.8GHz/12MB/95W/DDR4-2666  
  - Xeon E-2174G 4C/8T/3.8GHz/8MB/71W/DDR4-2666  
  - Core i7-9700K 8C/8T/3.6GHz/12MB/95W/DDR4-2666  
  - Core i5-9600K 6C/6T/3.7GHz/9MB/95W/DDR4-2666  
  - Core i5-9400 6C/6T/2.9GHz/9MB/65W/DDR4-2666  
  - Core i3-8300 4C/4T/3.7GHz/8MB/62W/DDR4-2400  
  - Core i3-8100 4C/4T/3.6GHz/6MB/65W/DDR4-2400  
| Memory Sockets | 4 DIMM sockets with 2 channels  
  Notes: Next gen Xeon processors and more 9th Core processor will be supported on June 2019 |
| Memory Types | 8GB/16GB DDR4-2666 UDIMM ECC or 4GB/8GB/16GB DDR4-2666 UDIMM non-ECC  
  Memory Capacity | 32GB or 64GB with 4 x 16GB, both UDIMM ECC or UDIMM non-ECC  
  Memory Protection | ECC on models with UDIMM ECC memory |
| Expansion slots | Three PCIe 3.0 slots as following:  
  Slot 1 PCIe 3.0 x16, full height, full length, links to CPU  
  Slot 2 PCIe 3.0 x1, full height, full length, links to PCH  
  Slot 3 PCIe 3.0 x16 (negotiable link width x4), full height, links to PCH |
| Processor graphics | Integrated Intel UHD Graphics P630 in -G suffix Xeon processors, or Intel UHD Graphics 630 in Core i7, i5, or i3 processors.  
  Works along with discrete graphics to support multi-display, enables three rear display connectors (2 DP standard, 1 DP or HDMI optional)  
  Up to two PCIe 3.0 x16 slots for discrete graphics card (Slot 1 and 3). Supports the following graphics adapters:  
  Quadro P400: 2GB GDDR5, 30W, 3x miniDP  
  Quadro P620: 2GB GDDR5, 40W, 4x miniDP  
  Quadro P1000: 4GB GDDR5, 50W, 4x miniDP  
  Quadro P2000: 5GB GDDR5, 75W, 4x DP  
  Quadro P5000: 16GB GDDR5X, 180W, DVI-D, DL + 4x DP  
  Quadro RTX 4000: 8GB GDDR6, 160W, 3x DP, 1x VirtualLink  
  Notes: 2x Quadro P2000, Quadro P5000, or Quadro RTX 4000 needs 400W PSU |
| Storage Controller | Onboard Intel RST SATA RAID  
  Type: Standard  
  RAID Level: 0/1/5/10/50  
  Onboard Intel RST PCIe RAID  
  Type: Standard  
  RAID Level: 0/1/5/10/50  
  Notes: 2x Quadro P2000, Quadro P5000, or Quadro RTX 4000 needs 400W PSU |
| Storage Support | Disk Type: 3.5" SATA SSD  
  Interface: 7.2K  
  RPM: 1TB/2TB/4TB  
  Offering: 3  
  2.5" SATA SSD  
  Interface: 7.2K  
  RPM: 500G/1TB  
  Offering: 4  
  2.5" SATA SSD  
  Interface: 6Gb/s  
  Offering: 256GB/512GB/1TB  
  Offering: 4  
  Optane Memory  
  PCle NVMe  
  Offering: 32GB, used with HDD/SSD  
  M.2 PCIe SSD  
  Interface: 2280  
  Offering: 256GB/512GB/1TB  
  Offering: 3  
  Up to five bays with four disk bays plus one slim optical bay, supports up to 3x 3.5" HDD plus 1x 2.5" SSD, or 4x 2.5" SSD/1x SSD  
  Bay 1 Primary disk bay, 3.5" or 2.5"  
  Bay 2 2.5" SATA bay, cannot be available when 2nd Quadro P2000 is used  
  Bay 3 Secondary disk bay, 3.5" or 2.5"  
  Bay 4 Flex bay, supports one of the following:  
  - Flex module for optional front eSATA/Thunderbolt/IEEE1394  
  - 3rd disk bay, 3.5" or 2.5", removable, via Front Access Storage Enclosure, using SATA 4 connector as eSATA mode  
  - 3rd disk bay, 3.5" or 2.5", via 5.25" to 3.5" HDD Kit  
  Bay 5 8mm Slim ODD bay  
  M.2 1x M.2 SSD (1 onboard, 2 via PCIe to M.2 adapter) |
| Network interfaces | One onboard GbE port via integrated gigabit ethernet Intel i219LM, supports Wake-on-LAN. Optional PCIe ethernet adapters are available |
| WLAN + Bluetooth | One dedicated onboard M.2 slot for optional Intel Wireless-AC 9560, 2x2, 2.4GHz/5GHz (160MHz channels), 802.11ac, Bluetooth 5, up to 1.73Gbps |
| Security features | Power-on and admin password. Trusted Platform Module, TCG 2.0 compliant.  
  Optional chassis intrusion switch, e-loack, cable lock, Kensington lock, and padlock |
| Intel vPro | Supports Intel vPro on Xeon models.  
  vPro also requires Wireless-AC 9560 if Wi-Fi is needed |
| Intel AMT | Intel Active Management Technology 12 on Xeon models. Intel Standard Manageability on other models |
| HD Audio | Intel HD Audio interface with Realtek ALC233 Codec |
| Front ports | 2x USB 3.1 Gen 1 Type A, 2x USB 3.1 Gen 2 Type A.  
  1x Mic-in, 1x Combo jack |
| Rear ports | 1x Mic-in, 1x Combo jack |
| Power supply | 40W |
| Operating: -15.2 m (-50 ft) to 3048 m (10 000 ft) |
| 1. Depending on many factors, actual data transfer speed mentioned on this page may be lower than theoretical speed.  
  2. Any questions or advice on ThinkStation PSREF, please contact ThinkStation PSREF developer  
  Lenovo, April 2019 |
### ThinkStation P520 Platform Specifications

#### Product Specifications Reference (PSREF)

**Form factor**
- 33L Tower

**Dimensions**
- 165mm/6.5" W x 460mm/18.1" D x 440mm/17.3" H (with feet)

**Weight**
- Maximum configuration: 52.91 lb (24kg)

**Processor Family**
- Up to one 140W Intel Xeon W family processor:
  - Up to 18 cores at 2.3 GHz
  - Up to 4.0 GHz with 4 cores
  - Up to 24,75 MB cache
  - Up to DDR4-2666 memory speed

**Processor Sockets**
- 1x FCLGA2066

**Chipset**
- Intel C422 Chipset

**Memory Protection**
- ECC

**Memory Capacity**
- Up to 256GB with 8 x 32GB RDIMMs

**Memory Types**
- DDR4-2666 RDIMM

**Memory Sockets**
- 8 DIMM sockets with 4 channels

**Chipset**
- Intel C422 Chipset

**Processor Sockets**
- 1x FCLGA2066

**Processor Family**
- Intel vPro technology supported. vPro requires Wireless-AC 8265 if Wi-Fi is needed

**Intel vPro**
- Intel Active Management Technology 11

**Intel AMT**
- Intel AMT

**Network**
- Integrated one gigabit ethernet (Intel i219LM), supports Wake-on-LAN. Optional PCIe interfaces ethernet or wireless adapters are available

**WLAN + Bluetooth**
- Optional Intel Wireless-AC 8265, 2x2, 2.4GHz/5GHz, 802.11ac, Bluetooth 4.2, up to 867Mbps

**Security features**
- Power-on and admin password. Trusted Platform Module, TCG 2.0 compliant, switch to 1.2 via UEFI setting. Optional access panel lock, Kensington lock, and padlock

**HD Audio**
- Realtek ALC662 codec

**Rear ports**
- 2x USB 2.0, 4x USB 3.0, 1x RJ-45, 3x analog audio ports (line-in, line-out, mic-in), 2x PS/2

**Front ports**
- 4x USB 3.0 (includes one 11W charging), 1x combo audio/microphone jack (3.5mm)

**Network**
- Integrated one gigabit ethernet (Intel i219LM), supports Wake-on-LAN. Optional PCIe Ethernet or wireless adapters are available

**Internal**: Supports up to 9x M.2 SSD + 6x 3.5" HDD / 2.5" SATA disks

**Environmental specification**
- Temperature - operating: 50°F to 95°F (10°C to 35°C)
- Temperature - storage (no package): 14°F to 140°F (-10°C to 60°C)
- Temperature - storage (with package): -40°F to 140°F (-40°C to 60°C)
- Altitude - operating: -15.2m-3048m
- Altitude - storage: 200m-4200m
- Humidity - operating: 10%~80%, non-condensing
- Humidity - storage: 10%~90%, non-condensing

**Environmental Certifications**
- RoHS-compliant
- GREENGUARD, EPEAT Gold rating
- ENERGY STAR 6.1 qualified on models 30BE0008US and 30BE0009US

**SV certifications**
- Please visit [www.thinkworkstations.com/sv-certifications/](http://www.thinkworkstations.com/sv-certifications/)

**Note**
1. Depending on many factors, actual data transfer speed mentioned on this page may be lower than theoretical speed.
2. To support the maximum expandability, 900W power supply may be needed.
3. Any questions or advice on ThinkStation PSREF, please contact ThinkStation PSREF developer

---

### Discrete Graphics Offering

<table>
<thead>
<tr>
<th>Graphics</th>
<th>Memory</th>
<th>Power</th>
<th>Connector</th>
<th>SLI / NVLink</th>
<th>Max Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quadro P400</td>
<td>4GB DDR5</td>
<td>65W</td>
<td>8xmini DP</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Quadro P600</td>
<td>2GB DDR5</td>
<td>55W</td>
<td>8xmini DP</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Quadro P620</td>
<td>2GB DDR5</td>
<td>45W</td>
<td>8xmini DP</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Quadro P1000</td>
<td>4GB DDR5</td>
<td>45W</td>
<td>8xmini DP</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Quadro P2000</td>
<td>5GB DDR5</td>
<td>75W</td>
<td>4xDP</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Quadro P4000</td>
<td>8GB DDR5</td>
<td>120W</td>
<td>4xDP</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Quadro P5000</td>
<td>16GB DDR5X</td>
<td>180W</td>
<td>DVI-D DL+4xDP</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Quadro P6000</td>
<td>24GB DDR5X</td>
<td>250W</td>
<td>DVI-D DL+4xDP</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Quadro RTX 4000</td>
<td>8GB DDR6</td>
<td>160W</td>
<td>3xDP, 1xVirtualLink</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Quadro RTX 5000</td>
<td>16GB DDR6</td>
<td>265W</td>
<td>4xDP, 1xVirtualLink</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Quadro RTX 6000</td>
<td>24GB DDR6</td>
<td>295W</td>
<td>4xDP, 1xVirtualLink</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Quadro RTX 8000</td>
<td>48GB DDR6</td>
<td>299W</td>
<td>4xDP, 1xVirtualLink</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Quadro GP100</td>
<td>16GB HMB2</td>
<td>235W</td>
<td>1xDP/DL 4xDP</td>
<td>NVLink</td>
<td>2</td>
</tr>
<tr>
<td>Quadro GV100</td>
<td>32GB HMB2</td>
<td>250W</td>
<td>4xDP</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

**Storage Controller**

<table>
<thead>
<tr>
<th>Controller</th>
<th>Type</th>
<th>Interface</th>
<th>RAID</th>
<th>Cache</th>
</tr>
</thead>
<tbody>
<tr>
<td>Onboard Intel RSTe</td>
<td>Std</td>
<td>SATA 6Gb/s</td>
<td>0/1/0/5</td>
<td>Cache</td>
</tr>
<tr>
<td>9460-161 PCIe</td>
<td>Opt</td>
<td>SAS 12Gb/s, SATA 6Gb/s</td>
<td>0/1/0/5</td>
<td>4GB DDR4, SuperCap</td>
</tr>
<tr>
<td>NVMe Basic</td>
<td>Opt</td>
<td>PCIe NVMe</td>
<td>0/1/0</td>
<td></td>
</tr>
<tr>
<td>NVMe Premium</td>
<td>Opt</td>
<td>PCIe NVMe</td>
<td>0/1/0</td>
<td></td>
</tr>
<tr>
<td>NVMe for Intel SSD</td>
<td>Opt</td>
<td>PCIe NVMe</td>
<td>0/1/0</td>
<td></td>
</tr>
</tbody>
</table>

**Environmental specification**

- Temperature - operating: 50°F to 95°F (10°C to 35°C)
- Temperature - storage (no package): 14°F to 140°F (-10°C to 60°C)
- Temperature - storage (with package): -40°F to 140°F (-40°C to 60°C)
- Altitude - operating: -15.2m-3048m
- Humidity - operating: 10%~80%, non-condensing
- Humidity - storage: 10%~90%, non-condensing

---

**Storage Support**

<table>
<thead>
<tr>
<th>Bay Type</th>
<th>Maximum Drives Qty</th>
<th>Max Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.2 slot</td>
<td>2x M.2 SSD (2 onboard, 7 via PCIe to M.2 adapter)</td>
<td>2 (1 when quad M.2 adapter used)</td>
</tr>
</tbody>
</table>

**Bay Type**

- 2x M.2 SSD (2 onboard, 7 via PCIe to M.2 adapter)

**Flex Bay**

- 2x flex bays. Supports the following:
  - 2x half-height optical drives
  - 2x 5.25" 9.0mm optical drives
  - 1x 5.25" 9.0mm optical drive + 2x 3.5"/2.5" SATA SSD/HDD
  - 1x 3.5"/2.5" SATA SSD/HDD with Front Access Storage Enclosure
  - 1x flex module for the following options:
    - Tray 1: 9.0mm optical drive
    - Tray 2: 15-in-1 USB 3.0 reader, 2x Thunderbolt, or 4-digit diagnostic display
  - 1x eSATA via PCIe adapter, USB 3.1 gen 2. One 15W, one 5W

**Note**
- Depending on many factors, actual data transfer speed mentioned on this page may be lower than theoretical speed.
- To support the maximum expandability, 900W power supply may be needed.
- Any questions or advice on ThinkStation PSREF, please contact ThinkStation PSREF developer

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**Lenovo, May 2019**
# ThinkStation P520c Platform Specifications

**Product Specifications Reference (PSREF)**

<table>
<thead>
<tr>
<th>Offering</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discrete Graphics</td>
<td>NVS 810: 4GB DDR3 68W 8xmini DP</td>
</tr>
<tr>
<td></td>
<td>Quadro P400: 2GB GDDR5 30W 3xminiDP</td>
</tr>
<tr>
<td></td>
<td>Quadro P500: 2GB GDDR5 45W 4xminiDP</td>
</tr>
<tr>
<td></td>
<td>Quadro P620: 2GB GDDR5 40W 4xmini DP</td>
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<td>Quadro P1000: 4GB GDDR5 50W 4xmini DP</td>
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<td>Quadro P2000: 5GB GDDR5 75W 4xDP</td>
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<td>Quadro P4000: 8GB GDDR5 120W 4xDP</td>
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<td>Quadro P5000: 16GB GDDR5X 180W DVI-D- DL+4xDP</td>
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<tr>
<td></td>
<td>Quadro RTX 4000: 8GB GDDR6 160W 3xDP 1xVirtualLink</td>
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<td>Opt</td>
<td>SAS 12Gb/s</td>
<td>SATA 6Gb/s</td>
<td>0/1/0/5</td>
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<tr>
<td>NVMe Basic</td>
<td>Opt</td>
<td>PCIe NVMe</td>
<td>0/1/10</td>
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<tr>
<td>NVMe for Intel SSD Opt</td>
<td>Opt</td>
<td>PCIe NVMe</td>
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<td>Sata 6Gb/s</td>
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<td>1TB/2TB/4TB/6TB</td>
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<tr>
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<td>2.5&quot; SATA SSD</td>
<td>Sata 6Gb/s</td>
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<td>500GB/500GB FIPS</td>
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<tr>
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<td>2.5&quot; SATA SSD</td>
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<td>M.2 PCIe SSD</td>
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<td>50 °F to 95 °F (10 °C to 35 °C)</td>
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<tr>
<td>Temperature - storage (no package)</td>
<td>14 °F to 140 °F (-10 °C to 60 °C)</td>
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<tr>
<td>Temperature - storage (with package)</td>
<td>40 °F to 140 °F (-40 °F to 60 °C)</td>
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<tr>
<td>Humidity - operating</td>
<td>10%~90%, non-condensing</td>
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<tr>
<td>Humidity - storage (with package)</td>
<td>10%~90%, non-condensing</td>
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<th>Environmental Certifications</th>
<th>Item Description</th>
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<td>RoHS-compliant, GREENGUARD, EPEAT Gold rating, ENERGY STAR 6.1 qualified on model 30BX0008US and 30BX0009US</td>
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<th>Flex Bay</th>
<th>Maximum Drives Qty</th>
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<td>2 flex bays. Supports the following:</td>
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<td>2x half-height optical drives</td>
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<td>2x 5.25&quot; 9.0mm optical drives</td>
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<td></td>
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<tr>
<td>1x 5.25&quot; 9.0mm optical drive + 2x 3.5&quot;/2.5&quot; SATA SSD/SSD</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>1x 3.5&quot;/2.5&quot; SATA SSD/SSD with Front Access Storage Enclosure</td>
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<td></td>
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<tr>
<td>1x flex module for the following options:</td>
<td></td>
<td></td>
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<tr>
<td>Tray 1: 9.0mm optical</td>
<td></td>
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<tr>
<td>Tray 2: 15-in-1 USB 3.0 reader, 2x Thunderbolt, or 4-digit diagnostic display</td>
<td></td>
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</tr>
<tr>
<td>Port 1 and 2: Front USB 3.0 Type-C or eSATA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2x M.2 SSD with 2x Front Removable Drive Enclosures</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note:
1. Depending on many factors, actual data transfer speed mentioned on this page may be lower than theoretical speed.
2. Any questions or advice on ThinkStation PSREF, please contact ThinkStation PSREF developer.

Lenovo, February 2019
ThinkStation P720 Photography

Product Specifications Reference (PSREF)

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ThinkStation P720 Platform Specifications

**Form factor**: 36L Tower

**Dimensions**: 175mm x 6.89" x 485mm / 19.1" x 446mm / 17.6" (with feet)

**Weight**: Maximum configuration: 52.25 lb (23.7kg)

**Processor Family**: Up to two 150 W Gen 1 or Gen 2 Intel Xeon Scalable family processors, Bronze, Silver, Gold, or Platinum. Up to 24 cores at 2.1 GHz.
- Up to 3.6 GHz with 4 cores
- Up to 33 MB cache
- Up to DDR4-2933 memory speed

**Processor Sockets**: 2x FCLGA3647

**Chipset**: Intel C621 Chipset

**Memory Capacity**: 768GB (DDR4-2933 RDIMM) or 384GB (DDR4-2666 RDIMM)

**Memory Types**: DDR4-2666 RDIMM

**Memory Sockets**: 12 DIMM sockets with 12 channels. 6 DIMM sockets with 6 channels per processor

**Weight**: Maximum configuration: 52.25 lb (23.7kg)

**Form factor**: 36L Tower

**Chipset**: Intel C621 Chipset

**Memory Sockets**: 12 DIMM sockets with 12 channels, 6 DIMM sockets with 6 channels per processor

**Memory Types**: DDR4-2666 RDIMM or 384GB (DDR4-2666 RDIMM)

**Memory Protection**: ECC

**Expansion slots**

- Slot 1 (CPU2): PCIe 3.0 x16, full height, full length, 75W
- Slot 2 (CPU1): PCIe 3.0 x16, full height, full length, 75W, double-width
- Slot 3 (CPU1): PCIe 3.0 x8, full height, full length, 25W, open ended
- Slot 4 (CPU1): PCIe 3.0 x16, full height, full length, 75W, double-width
- Slot 5: PCIe, full height, full length, 25W
- Slot 6 (PCH): PCIe 3.0 x4, full height, half length, 25W, open ended

**Discrete Graphics Offering**

- NVS 810: 4GB DDR3, 68W, 8x mini DP
- Quadro P400: 2GB GDDR5, 30W, 3x mini DP
- Quadro P600: 2GB GDDR5, 45W, 4x mini DP
- Quadro P620: 2GB GDDR5, 40W, 4x mini DP
- Quadro P1000: 4GB GDDR5, 50W, 4x mini DP
- Quadro P2000: 5GB GDDR5, 75W, 4x DP
- Quadro P4000: 8GB GDDR5, 120W, 4x DP
- Quadro P5000: 16GB GDDR5X, 180W, DVI-D DL + 4xDP
- Quadro P6000: 24GB GDDR5X, 250W, DVI-D DL + 4xDP, SLI
- Quadro RTX 4000: 8GB GDDR6, 160W, 3x DP, 1x VirtualLink
- Quadro RTX 5000: 16GB GDDR6, 240W, 4x DP, 1x VirtualLink
- Quadro RTX 6000: 24GB GDDR6, 295W, 4x DP, 1x VirtualLink
- Quadro RTX 8000: 48GB GDDR6, 295W, 4x DP, 1x VirtualLink
- Quadro GP100: 48GB GDDR5X, 250W, 4x DP, 1x VirtualLink
- Quadro GV100: 32GB HBM2, 250W, 4x DP

**Storage Bays**

**Bay Type**

- M.2 slot 2x M.2 SSD (2 onboard, 7 via PCIe to M.2 adapter)
- Flex bays. Supports the following:
  - 2x half-height optical drives
  - 2x 5.25" 9.0mm optical drive + 1x 3.5"/2.5" SATA SSD/HDD
  - 3.5"/2.5" SATA SSD/HDD with Front Access Storage Enclosure

**Maximum Drives Qty**

- Tray 1: 9.0mm optical
- Tray 2: 15-in-1 USB 3.0 reader or 2x Thunderbolt (Port 1 and 2: Front USB 3.0 Type-C or eSATA)
- 2x M.2 SSD with 2x Front Removable Drive Enclosures

**Storage Bays**

- Supports up to 9x M.2 SSD + 6x 3.5" HDD/10x 2.5" SSD/11x 2.5" HDD + 2x PCIe AIC SSD
- All HDD: 36TB using 6x 3.5" HDD
- All SSD: 38.96TB using 10x 2.5" SATA SSD, 9x M.2 SSD, and 2x PCIe AIC SSD

**Power supply**

- Supports one of the following:
  - One fixed 690W, autosensing, 92%, 80 PLUS Platinum qualified
  - One fixed 900W, autosensing, 92%, 80 PLUS Platinum qualified

**Network interfaces**

- Integrated two-port gigabit ethernet (Intel i219LM and i210AT), supports Wake-on-LAN on both two ports. Optional PCIe ethernet are available

**Network**

- Optional Intel Wireless-AC 8265, 2x2, 2.4GHz/5GHz, 802.11ac, Bluetooth 4.2, up to 867Mbps

**Security features**

- Power-on and admin password. Trusted Platform Module, TCG 2.0 compliant. Chassis intrusion switch. Optional access panel lock, Kensington lock, and padlock

**Operating systems**

- Windows 10 Pro, Windows Server 2016, Red Hat Enterprise Linux, and SUSE Linux

**Base warranty**

- 1 year option: 3 year limited onsite service with 9x5/NBD

**HD Audio**

- Realtek ALC662 codec

**Power-on front panel warning LED**

- Lenovo, May 2019

**Environmental specifications**

- Temperature - operating 50°F to 95°F (10°C to 35°C)
- Temperature - storage (no package) 14°F to 140°F (-10°C to 60°C)
- Temperature - storage (with package) -40°F to 140°F (-40°C to 60°C)
- Altitude - operating (Unpressurized): 0-10000ft (0-3048m)
- Altitude - storage (with package) -10000ft (0-3048m)
- Humidity - operating 10%–90%, non-condensing
- Humidity - storage (with package) 10%–90%, non-condensing

**Certifications**

- RoHS-compliant. GREENGUARD. EPEAT Gold rating. ENERGY STAR 6.1 qualified on model 30BA0007US and 36BA0008US

---

**Note:**

1. Depending on many factors, actual data transfer speed mentioned on this page may be lower than theoretical speed.
2. To support the maximum expandability, 900W power supply may be needed.
3. Any questions or advice on ThinkStation PSREF, please contact ThinkStation PSREF developer
## ThinkStation P920 Platform Specifications

**Form factor**: 55L Tower

**Dimensions**: 200mm/7.87” W x 620mm/24.4” D x 446mm/17.56” H (with feet)

**Weight**: Maximum configuration: 71.3 lb (32.3kg)

### Processor Family
- Up to two 205 W Gen 1 or Gen 2 Intel Xeon Scalable family processors, Bronze, Silver, Gold, or Platinum:
  - Up to 28 cores at 2.5 GHz
  - Up to 3.6 GHz with 4 cores
  - Up to 38.5 MB cache
  - Up to DDR4-2933 memory speed

### Processor sockets
- 2x FCLGA3647

### Chipset
- Intel C621 Chipset

### Memory Capacity
- 1TB (DDR4-2666 LRDIMM or DDR4-2933 RDIMM) or 512GB (DDR4-2666 RDIMM)

### Memory Types
- DDR4-2666 RDIMM, DDR4-2666 LRDIMM, or DDR4-2933 RDIMM

### Memory Sockets
- 16 DIMM sockets with 12 channels. 8 DIMM sockets with 6 channels per processor

### Chipset
- Intel C621 Chipset

### Processor Sockets
- 2x FCLGA3647

### Weight
- Maximum configuration: 71.3 lb (32.3kg)

### Dimensions
- 200mm/7.87” W x 620mm/24.4” D x 446mm/17.56” H (with feet)

### Form factor
- 55L Tower

### Storage Support

#### Storage Controller Type
- Onboard Intel RSTe
- Intel AMD Chipset
- 9440-16 PCIe
- 9440-32 PCIe

#### Interface
- SAS 6Gb/s
- SATA 6Gb/s
- SuperCap

#### RAID
- 0/1/5/6
- 0/1/0/5

#### Cache
- 4GB DDR4
- 8GB DDR4

#### Storage Controller Type
- Opt NVMe SSD
- Opt NVMe SSD

#### Interface
- PCIe 8x4x
- PCIe 8x4x

#### Port 1 and 2
- Front USB 3.0 Type-C or eSATA
- 2x Thunderbolt ports (USB Type-C) on flex module, one of two ports

#### Port 3 and 4
- 2x USB Type-C ports via PCIe adapter, USB 3.1 gen 2
- 2x 15W, one 5W

#### Power supply
- One fixed 1400 watts, autotuning, 92% PSU, 80 PLUS Platinum qualified

#### Countries with input voltage under 115V, output power limited to 1125 watts

### Network interfaces
- Integrated two-port gigabit ethernet (Intel i219LM and i210AT), supports Wake-on-LAN on both two ports. Optional PCIe ethernet are available

### WiFi
- Optional Intel Wireless-AC 8265, 2x2, 2.4GHz/5GHz, 802.11ac, Bluetooth 4.2, up to 867Mbps

### Security features
- Power-on and admin password. Trusted Platform Module, TCG 2.0 compliant, switch to 1.2 via UEFI setting. Chassis intrusion switch. Optional access panel lock, Kensington lock, and padlock

### Intel vPro
- Intel vPro technology supported. vPro requires Wireless-AC 8265 if Wi-Fi is needed

### Intel AMT
- Intel Active Management Technology 11

### Diagnostic
- Front 4-digit diagnostic display. ThinkStation Diagnostics for Windows, Photo-audio transfer with Lenovo PC Diagnostics for Android and iOS

### Base warranty
- 1 or 3-year limited onsite service with 9x5/NBD

### HD Audio
- Realtek ALC662 codec

### Rear ports
- 2x USB 2.0, 4x USB 3.0, 2x RJ-45, 3x analog audio ports (line-in, line-out, mic-in), 2x PS/2

### Front ports
- 4x USB 3.0 (includes one 11W charging), 1x combo audio/microphone jack (3.5mm)

### SSD
- Supports up to 8x M.2 SSD + 6x 2.5” HDD/10x 2.5” HDD + 2x PCIe AIC SSD
- All HDD: 36TB using 6x 3.5” HDD
- All SSD: 38.67TB using 10x 2.5” SATA SSD, 9x M.2 SSD, and 2x PCIe AIC SSD

### Max Storage
- Supports up to 9x M.2 SSD + 6x 3.5” HDD/10x 2.5” HDD + 2x PCIe AIC SSD

### Power supply
- Single 1400 watt, autotuning, 92% PSU, 80 PLUS Platinum qualified

### Media reader
- SD USB 2.0 card reader on most models. Optional UHS-II 15-in-1 USB 3.0 reader on flex module

### Environmental specification
- RoHS-compliant. GREENGUARD. EPEAT Gold rating. ENERGY STAR 6.1 qualified on model 30BSC0008US and 30BSC0009US

### Environmental Certifications
- RoHS-compliant. GREENGUARD. EPEAT Gold rating. ENERGY STAR 6.1 qualified on model 30BSC0008US and 30BSC0009US

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**Note:**
1. Depending on many factors, actual data transfer speed mentioned on this page may be lower than theoretical speed.
2. Any questions or advice on ThinkStation PSREF, please contact ThinkStation PSREF developer.

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**Lenovo, May 2019**
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Limited warranty: Support unrelated to a warranty issue may be subject to additional charges.

Lenovo Services:

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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Summary of Changes

This section describes the changes made in this version of ThinkServer PSREF and in previous version. This edition might also include minor corrections and editorial changes which are not identified.

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**August 23, 2017 - Version 511**
Additions in this update
► Update ThinkServer RD650/RD550/RD350/TD350/TS460/RS160 platform specifications, add 12TB 7.2K SATA6Gbs HDD support

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**June 21, 2017 - Version 508**
Additions in this update
► Add ThinkServer TS460 models announced June 2017
► Add ThinkServer RS160 models announced June 2017
► Update ThinkServer TS460 platform specifications, add new SBB support: Kaby Lake Xeon, Core i3, and Pentium processors. DDR4-2400 memory. 10TB 7.2K SATA6Gbs HDD; 10TB 7.2K SAS12Gbs HDD, 300GB/600GB 15K 2.5" SAS. Red Hat Enterprise Linux 7.3. SUSE Linux Enterprise Server 12 SP2/11 SP4
► Update ThinkServer RS160 platform specifications, add new SBB support: Kaby Lake Xeon, Core i3, Pentium, and Celeron processors. DDR4-2400 memory. 10TB 7.2K SATA6Gbs HDD, 10TB 7.2K SAS12Gbs HDD, 900GB 15K 2.5" SAS

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**May 26, 2017 - Version 507**
Additions in this update
► Update ThinkServer RD650/RD550 platform specifications, add DDR4-2400 RDIMM memory, up to 1.92TB easy-swap NVMe SSD, and up to 3.84TB NVMe flash adapter

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**April 19, 2017 - Version 505**
Additions in this update
► Add ThinkServer TS460 models announced April 2017
► Add ThinkServer TD350 models announced April 2017
► Add ThinkServer TS150 models announced April 2017
► Update ThinkServer TS150 platform specifications, add new Kaby Lake processors, DDR4-2400 memory, 10TB hard drive supports

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**February 15, 2017 - Version 502**
Additions in this update
► Add ThinkServer RS160 models announced September 2016
Withdrawals in this update
► ThinkServer TS140 had been end of life

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**October 12, 2016 - Version 496**
Additions in this update
► New ThinkServer RS160 product announced September 2016
► New ThinkServer TS150 models announced August and October 2016

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**September 14, 2016 - Version 495**
Additions in this update
► New ThinkServer RS160 product announced September 2016
► New ThinkServer TS140 models announced September 2016

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**April 6, 2016 - Version 487**
Additions in this update
► New ThinkServer TD350, RD350, and RD450 models announced April 2016
► Add Intel Xeon E5-2600 v4 processors
March 23, 2016 - Version 486
Additions in this update
► New ThinkServer TS140 models announced March 2016

February 24, 2016 - Version 485
Additions in this update
► Add 8TB SATA and SAS 72K 6Gbs hard drive on ThinkServer RD350/RD450/RD550/RD650/TD350

December 30, 2015 - Version 483
Additions in this update
► Updates ThinkServer RS140, TD340 specifications
► Updates the most recent ThinkServer RS140, TD340 models

December 9, 2015 - Version 482
Additions in this update
► Updates ThinkServer TS140, TS440 specifications
► Updates the most recent ThinkServer TS140, TS440, RD350, RD450, RD550, RD650 models

October 28, 2015 - Version 480
Additions in this update
► New ThinkServer TS140 models announced October 2015

July 30, 2015 - Version 476
Additions in this update

May 6, 2015 - Version 473
Additions in this update
► Add 95mm optical support on TD350
► Add Red Hat Enterprise Linux 7 support on RD350/RD450/RD550/RD650/TD350
► Add 32 x 25” bay support on TD350
► Add AnyBay and 25” PCIe SSD support on RD550/RD650

April 15, 2015 - Version 471
Additions in this update
► New ThinkServer TD350 models announced March 2015

March 25, 2015 - Version 470
Additions in this update
► New ThinkServer TS140 and TS440 models announced March 2015
## ThinkServer RS160 Platform Specifications

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<th>Specification</th>
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<tr>
<td><strong>Dimensions</strong></td>
<td>1U rack. Height: 43.2 mm (1.7 in), width: 438.5 mm (17.26 in), depth: 393.7 mm (15.5 in)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Minimum configuration: 6.2 kg (13.67 lb), maximum: 7.6 kg (16.76 lb)</td>
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<tr>
<td><strong>Components</strong></td>
<td>Specification</td>
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<tr>
<td>RAID controller</td>
<td>RAIDX2/2/2/1 (RAID 0/1/5/6) Support for up to 12 SAS/SATA drives. Supports hot swap and failover. RAID controller cache is 1GB memory. RAID 0/1/5/6 supported.</td>
</tr>
<tr>
<td>Disk drive bays</td>
<td>Supports two 3.5&quot; or four 2.5&quot; disk drive bays. Non-hot swap. Cables are connected to onboard SATA connectors or PClE RAID controller. Also supports one M.2 SATA SSD.</td>
</tr>
<tr>
<td>Supporting storage</td>
<td>3.5&quot; HDD, 7.2K SATA6Gb 1TB/2TB/4TB/6TB/8TB/10TB 3.5&quot; SSD, 1.2TB 2.5&quot; SSD, 960GB 2.5&quot; HDD, 7.2K SATA6Gb 2TB/4TB/6TB/8TB/10TB 3.5&quot; SSD, 960GB 2.5&quot; SSD, 7200RPM, 2GB cache 2.5&quot; HDD, 7.2K SATA6Gb 2TB/4TB/6TB/8TB/10TB 3.5&quot; SSD, 960GB 2.5&quot; SSD, 7200RPM, 2GB cache 2.5&quot; HDD, 7.2K SATA6Gb 2TB/4TB/6TB/8TB/10TB 3.5&quot; SSD, 960GB 2.5&quot; SSD, 7200RPM, 2GB cache 2.5&quot; SSD, 960GB 2.5&quot; SSD, 7200RPM, 2GB cache</td>
</tr>
<tr>
<td>Memory</td>
<td>4 DIMM sockets with 2-channels. UDIMM. DDR4-2133 or DDR4-2400</td>
</tr>
<tr>
<td>Processor</td>
<td>Supports one of the following Intel &quot;Kaby Lake&quot; processors:</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel C222 Platform Controller Hub (PCH)</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel C222 Platform Controller Hub (PCH)</td>
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<tr>
<td>Memory DIMMs</td>
<td>4 DIMM sockets with 2-channels. UDIMM, DDR4-2133 or DDR4-2400</td>
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<tr>
<td>Memory capacity</td>
<td>64GB (16GB x 4)</td>
</tr>
<tr>
<td>Memory protection</td>
<td>ECC</td>
</tr>
<tr>
<td>Optical drive</td>
<td>Optional one 9.5mm optical. DVD-ROM or DVD±RW</td>
</tr>
<tr>
<td>Network interfaces</td>
<td>One dedicated management port, two Gigabit Ethernet ports. Supports optional discrete network adapters via riser card</td>
</tr>
<tr>
<td>Security features</td>
<td>Power-on and administrator password. Optional TPM, TCG 1.2 or 2.0 compliant.</td>
</tr>
<tr>
<td>Systems management</td>
<td>UEFI. Onboard Aspeed AST2400 graphics/management processor, IPMI 2.0-compliant baseboard management controller (BMC), Control Panel LEDs shows the status of power, ID, disk drives, network, system. Supports the following management software: EasyStartup, Power Planner. On November 2016, EasyUpdate, Lenovo ThinkServer Diagnostics Standalone, TooleCenter Suite CLI inventory module on ThinkServer, and Lenovo xClarity Administrator will be available.</td>
</tr>
<tr>
<td>Operating systems</td>
<td>Microsoft Windows Server 2016 (Standard and Essentials)/2012 R2/2012. Windows 10 Pro, Red Hat Enterprise Linux 6.7/6.8/7.2. SUSE Linux Enterprise Server 11/12. VMware vSphere (ESXi) 6.0/UB/UB</td>
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<tr>
<td>Base warranty</td>
<td>1 or 3-year limited onsite service with 9x5/NBD</td>
</tr>
<tr>
<td>Power supply</td>
<td>One fixed 300 watts power supply, Non-hot swap, 80 PLUS Gold qualified</td>
</tr>
<tr>
<td>Graphics</td>
<td>Onboard Aspeed AST2400</td>
</tr>
<tr>
<td>Front ports</td>
<td>Two USB 2.0</td>
</tr>
<tr>
<td>Rear ports</td>
<td>One VGA, four USB 3.0, one RJ-45 (dedicated mgmt), two ethernet, one serial (9-pin)</td>
</tr>
<tr>
<td>Cooling</td>
<td>3 fans for processor, PClE slot, and disk drives</td>
</tr>
<tr>
<td>Noise emissions</td>
<td>Operating: &lt; 5.9 Bels. Idle: &lt; 5.2 Bels (Maximum configuration)</td>
</tr>
<tr>
<td>Environmental specification</td>
<td>Temperature: operating 50 °F to 95 °F (10 °C to 35 °C)</td>
</tr>
<tr>
<td>Expansion slots and disk bays</td>
<td>Supports one PCIe slot via optional riser card, PClE 3.0 x16, half length, half height</td>
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<tr>
<td>Core options for ThinkServer RS160 (partial)</td>
<td>ThinkServer 8GB 2RX8 PC4-2133-E CL15 DDR4-2133 4X70G88316</td>
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<tr>
<td>Core options for ThinkServer RS160 (partial)</td>
<td>ThinkServer 16GB 2RX8 PC4-2133-E CL15 DDR4-2133 ECC-UDIMM 4X70G88317</td>
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<td>Core options for ThinkServer RS160 (partial)</td>
<td>ThinkServer 3.5&quot; 8TB 7.2K Enterprise SATA 6Gb/s 512e Hard Drive for RS-Series 4XBDK7297</td>
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<tr>
<td>Core options for ThinkServer RS160 (partial)</td>
<td>ThinkServer 2.5&quot; 1TB 10K Enterprise SAS 12Gbps Hard Drive for RS-Series 4XBDK72306</td>
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<tr>
<td>Core options for ThinkServer RS160 (partial)</td>
<td>ThinkServer 2.5&quot; 2TB 7.2K Enterprise SATA 6Gb/s Hard Drive for RS-Series 4XBDK12302</td>
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<td>Core options for ThinkServer RS160 (partial)</td>
<td>ThinkServer 480GB S3510 Enterprise Entry SATA 600 SSD for RS-Series 4XBDK12321</td>
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<td>Core options for ThinkServer RS160 (partial)</td>
<td>ThinkServer M2 32GB Value-Optimized SATA 6Gbps Solid State Drive 4XBDK12310</td>
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<tr>
<td>Core options for ThinkServer RS160 (partial)</td>
<td>ThinkServer RS160 Slim SATA DVD-RW Optical Disk Drive 4XADG88613</td>
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<tr>
<td>Core options for ThinkServer RS160 (partial)</td>
<td>Lenovo ThinkServer Gen 5 Trusted Platform Module v1.2 (Worldwide except China) 4XF0G45868</td>
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<td>70TGR003UX</td>
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</table>
ThinkServer TS150 Platform Specifications

**Product Specifications Reference (PSREF)**

- **Specifications**
  - Operating: 500GB/1TB/2TB
  - Processor: 2C/3.2GHz/3MB/35W/DDR4-2133
  - Memory: 4 DIMM sockets with 2 channels, 2 DIMMs per channel. UDIMM. Up to DDR4-2400
  - Storage: Two USB 3.0
  - Power: Supports one of the following:
    - One fixed 250 watts, autosensing, 85%, 80 PLUS Bronze qualified
    - One fixed 400 watts, autosensing, 92%, 80 PLUS Platinum qualified
  - Security: UEFI, system LEDs, EasyStartup, EasyUpdate, Power Planner, and Diagnostics. Intel Active Management Technology 11 on models with Xeon processors. Intel Standard Manageability on models with Core i3, Pentium, or Celeron processors. KVM is supported on models with Xeon E3-12x5 v5 processors.

- **Disk Bays and PCIe Slots**

- **Chipset**: Intel C236 Platform Controller Hub (PCH)
- **Memory DIMMs**: 4 DIMM sockets with 2 channels, 2 DIMMs per channel. UDIMM. Up to DDR4-2400
- **Memory capacity**: 64GB (16GB x 4)
- **Memory protection**: ECC
- **RAID controller**: Onboard RAID121
  - RAID520 PCIe 120Gbs SAS/SATA
  - RAID support D1/10, 5 with optional key

- **Disk bays**: Supports up to four 3.5" or hybrid 3.5" + 2.5" disk drives, or up to five 2.5" disk drives, one 9.5mm optical (see right). Non-hot swap. Cables are connected to onboard SATA connectors or PCIe RAID controller. Supports one optional internal USB RDX Tape drive
- **Supporting storage**
  - 3.5" HDD, 7.2K SATA6Gbs: 500GB/1TB/2TB/3TB/4TB/5TB/6TB/8TB/10TB
  - 2.5" SSD, SATA6Gbs: 720GB/240GB/480GB/600GB/800GB/960GB

- **Power supply**: Supports the following discrete graphics adapter options:
  - NVIDIA Quadro NVS 315, 1GB
  - NVIDIA Quadro K620, 2GB

- **Network interfaces**: One Gigabit Ethernet port, Intel I219LM. Supports optional discrete network adapters via PCIe slots

- **Dimensions**: Tower or 4U rack.
  - Height: 375 mm (14.76 in), width: 175 mm (6.89 in), depth: 431 mm (16.97 in)

- **Weight**: Maximum configuration: 27.6 lb (12.5kg)
  - 0/1/5/10

- **Features**: PCIe cards are optional. Disk tray comes with the disk drive.
<table>
<thead>
<tr>
<th>Model</th>
<th>Region</th>
<th>Processor</th>
<th>Memory</th>
<th>Storage Controller</th>
<th>Disk Bays</th>
<th>Disks</th>
<th>Optical</th>
<th>Add-on NIC</th>
<th>Add-on Ports</th>
<th>System Mgmt</th>
<th>OS</th>
<th>Warranty</th>
<th>Power Supply</th>
<th>Ann Date (m/y)</th>
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<tbody>
<tr>
<td>70LV002UX</td>
<td>US</td>
<td>Xeon E3-1225 v5 4C/3.3GHz/8MB/80W/DDR4-2133</td>
<td>1x8GB UDIMM DDR4-2133 ECC</td>
<td>RAID 121i</td>
<td>Up to 5x2.5&quot; DC</td>
<td>Open</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>AMT</td>
<td>None</td>
<td>1-year</td>
<td>Fixed 250W Bronze</td>
<td>08/16</td>
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<td>1x8GB UDIMM DDR4-2133 ECC</td>
<td>RAID 121i</td>
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<td>None</td>
<td>AMT</td>
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<td>Fixed 250W Bronze</td>
<td>08/16</td>
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<td>None</td>
<td>None</td>
<td>AMT</td>
<td>None</td>
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<td>Fixed 250W Bronze</td>
<td>08/16</td>
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<td>1x8GB UDIMM DDR4-2133 ECC</td>
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<td>AMT</td>
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<td>1x8GB UDIMM DDR4-2133 ECC</td>
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<td>None</td>
<td>1-year</td>
<td>Fixed</td>
<td>04/17</td>
</tr>
<tr>
<td>70UB000CUX</td>
<td>US</td>
<td>Xeon E3-1245 v6 4C/3.7GHz/8MB/DDR4-2400</td>
<td>1x8GB UDIMM DDR4-2400 ECC</td>
<td>RAID 121i</td>
<td>Up to 4x3.5&quot; DC</td>
<td>Open</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>1-year</td>
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<td>04/17</td>
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<tr>
<td>70UB000DUX</td>
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<td>Xeon E3-1275 v6 4C/3.8GHz/8MB/DDR4-2400</td>
<td>1x8GB UDIMM DDR4-2400 ECC</td>
<td>RAID 121i</td>
<td>Up to 4x3.5&quot; DC</td>
<td>Open</td>
<td>None</td>
<td>None</td>
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<td>None</td>
<td>None</td>
<td>1-year</td>
<td>Fixed</td>
<td>04/17</td>
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<tr>
<td>70UB000EUX</td>
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<td>Xeon E3-1275 v6 4C/3.8GHz/8MB/DDR4-2400</td>
<td>1x8GB UDIMM DDR4-2400 ECC</td>
<td>RAID 121i</td>
<td>Up to 4x3.5&quot; DC</td>
<td>Open</td>
<td>9.5mm DVD±RW</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>1-year</td>
<td>Fixed</td>
<td>04/17</td>
</tr>
<tr>
<td>70UB001WUX</td>
<td>US</td>
<td>Core i3-6100T 2C/3.2GHz/3MB/DDR4-2133</td>
<td>1x8GB UDIMM DDR4-2400 ECC</td>
<td>RAID 121i</td>
<td>Up to 4x3.5&quot; DC</td>
<td>Open</td>
<td>HH DVD±RW</td>
<td>None</td>
<td>None</td>
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<td>1-year</td>
<td>Fixed</td>
<td>04/17</td>
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<td>70UB001XUX</td>
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<td>Core i3-6100T 2C/3.2GHz/3MB/DDR4-2133</td>
<td>1x8GB UDIMM DDR4-2400 ECC</td>
<td>RAID 121i</td>
<td>Up to 4x3.5&quot; DC</td>
<td>Open</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>1-year</td>
<td>Fixed</td>
<td>04/17</td>
</tr>
</tbody>
</table>
### Components Specifications

#### Dimensions
- 42L tower or 4U rack.
- Height: 443.5 mm (17.46 in) with foot stands. Width: 173 mm (6.81 in). Depth: 593 mm (23.35 in) including front door and handle of hot-swap power supply.

#### Weight
- Maximum configuration: 57.32 lb (26.5 kg).
- Supports one of the following Intel "Kaby Lake" processors:
  - Intel Core i3-7350K @ 4.10GHz/8MB/95W/100W/DDR4-2133
  - Intel Core i5-7600K @ 4.20GHz/6MB/95W/115W/DDR4-2400
  - Intel Core i7-7700K @ 4.20GHz/8MB/95W/135W/DDR4-2400

#### Tape drive
- Supports one of the following Intel "Skylake" processors:
  - Intel Core i3-6100 @ 3.70GHz/3MB/51W/DDR4-2133
  - Intel Core i5-6500 @ 3.20GHz/3MB/35W/DDR4-2133
  - Intel Core i5-6500T @ 3.10GHz/3MB/30W/DDR4-2133

#### Processor
- Supports one of the following Intel "Skylake" processors:
  - Intel Core i3-6100 @ 3.30GHz/4MB/35W/DDR4-2133
  - Intel Core i5-6500T @ 3.40GHz/4MB/35W/DDR4-2133

#### Chipset
- Supports one of the following Intel "Skylake" processors:
  - Intel Core i3-7100 @ 3.00GHz/3MB/54W/DDR4-2400

#### Memory DIMMs
- Supports one of the following Intel "Skylake" processors:
  - Intel Core i5-6500T @ 3.20GHz/3MB/35W/DDR4-2133

#### M.2 SATA SSD
- Adds more than 4 disk bays needs expander card.
- Supports one of the following configurations:
  - 4 x 2.5" HS can be upgraded to 8 x 2.5" HS or 8 x 2.5" HS, 8 x 2.5" HS can be upgraded to 16 x 2.5" HS or 4 x 3.5" 8 x 2.5" HS.

#### Components Specification

<table>
<thead>
<tr>
<th>Components</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum storage</td>
<td>Up to 64TB with 8TB 3.5&quot; SAS or SATA HHDs, 8 x 3.5&quot; HS bay</td>
</tr>
<tr>
<td>Optical drive</td>
<td>Two 5,25&quot; bays. Up to 2 optical drives. DVD-REM or DVD±RW. Half-height, 2nd optical drive will be disabled if M.2 SATA SSD is used</td>
</tr>
<tr>
<td>Tape drive</td>
<td>Supports one tape drive in 5.25&quot; bay. RDX or LTO. Tape drive needs RAID520</td>
</tr>
<tr>
<td>Network interfaces</td>
<td>Two integrated Gigabit Ethernet 1000BASE-T ports (RJ-45) with Intel i210. One dedicated management port with Realtek Ethernet 8211E</td>
</tr>
<tr>
<td>Systems management</td>
<td>JEFT, Onboard Aspeed AST2400 graphics management processor. IPMI 2.0-compliant baseboard management controller (BM)</td>
</tr>
<tr>
<td>Power supply</td>
<td>Supports one of the following, depending on models:</td>
</tr>
<tr>
<td>Memory protection</td>
<td>All models support ASHARE A, B, C, D, E, F, G.</td>
</tr>
<tr>
<td>Memory capacity</td>
<td>All models support ASHARE A, B, C, D, E, F, G. (non-condensing)</td>
</tr>
<tr>
<td>Environmental specification</td>
<td>All models support ASHARE A, B, C, D, E, F, G.</td>
</tr>
<tr>
<td>Memory protection</td>
<td>All models support ASHARE A, B, C, D, E, F, G.</td>
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<tr>
<td>Memory protection</td>
<td>All models support ASHARE A, B, C, D, E, F, G.</td>
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<td>Memory protection</td>
<td>All models support ASHARE A, B, C, D, E, F, G.</td>
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<tr>
<td>Memory protection</td>
<td>All models support ASHARE A, B, C, D, E, F, G.</td>
</tr>
<tr>
<td>Model</td>
<td>Region</td>
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<tr>
<td>70TR000LUX</td>
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<td>70TR000NUX</td>
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<td>Model</td>
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<td>70TT02MUX</td>
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<td>70TT02KUX</td>
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Summary of Changes

This section describes the changes made in this version of ThinkSystem PSREF and in previous version. This edition might also include minor corrections and editorial changes which are not identified.

April 3, 2019 - Version 540
► Add 2nd Xeon Scalable processor, add DDR4-2933 memory, add Intel Optane DC Persistent Memory

September 12, 2018 - Version 530
► Add ThinkSystem SR670

May 9, 2018 - Version 524
► Withdraw ThinkSystem SR650/SR630/SR550/SR530/SR850/ST550 LFOs to April 2018
► Update ThinkSystem SR650/SR630/SR590/SR530 LA LFOs to April 2018

April 18, 2018 - Version 523
► Update ThinkSystem SR650/630/550/530 LFOs to April 2018

November 29, 2017 - Version 516
► Add new ThinkSystem SR860/SR590/SR570
► Add 128GB 3DS RDIMM, 480GB M.2 SSD, VMware ESXi 6.5U1, Red Hat Enterprise Linux 7.4 supports on compatible ThinkSystem servers

November 8, 2017 - Version 515
► Add ThinkSystem SN850/SN550/SD530 and ThinkSystem D2 Enclosure

July 12, 2017 - Version 509
## ThinkSystem SN550 Platform Specifications

**Product Specifications Reference (PSREF)**

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form factor</strong></td>
<td>Standard-width Flex System compute node</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>Height: 51 mm (2.0 in), Width: 215 mm (8.5 in), Depth: 493 mm (19.4 in)</td>
</tr>
<tr>
<td><strong>Chassis support</strong></td>
<td>Flex System Enterprise Chassis with CMM2</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Maximum configuration: 15.6 lb (7.1 kg)</td>
</tr>
<tr>
<td><strong>Processor</strong></td>
<td>Up to two 165W Intel Xeon Scalable family processors, Bronze, Silver, Gold, or Platinum. Up to 28 cores at 2.1GHz, up to 3.6GHz with 4 cores. Up to two UPI (Ultra Path Interconnect) links at maximum 10.4GT/s each</td>
</tr>
<tr>
<td><strong>Chipset</strong></td>
<td>Intel C624 Platform Controller Hub</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>Up to 24 DIMM sockets. Each processor supports up to 12 DIMM sockets with 6 channels. DDR4-2666. RDIMMs, LRDIMMs, and 3DS RDIMMs are supported, but memory types cannot be intermixed. 3DS RDIMM is planned to be available later</td>
</tr>
<tr>
<td><strong>Memory capacity</strong></td>
<td>Up to 768GB with 24 x 32GB RDIMMs and two processors. Or up to 1.5TB with 24 x 64GB LRDIMMs and two processors. Or up to 3TB with 24 x 128GB 3DS RDIMMs and two -M suffix processors. -M suffix processor supports 1.5TB memory per socket, non -M suffix processor supports 768GB memory per socket</td>
</tr>
<tr>
<td><strong>Memory protection</strong></td>
<td>Supports Gold or Platinum processors, memory mirroring, and memory sparing</td>
</tr>
<tr>
<td><strong>Storage controllers</strong></td>
<td>Supports the following RAID/HBA adapters:</td>
</tr>
<tr>
<td></td>
<td>Adapter</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Onboard Intel R10e</td>
</tr>
<tr>
<td></td>
<td></td>
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<tr>
<td></td>
<td>320-4i</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>320-4i</td>
</tr>
<tr>
<td><strong>Disk drive bays</strong></td>
<td>Two 2.5&quot; hot-swap disk bays. Depending on server configuration and installed backplanes, the two bays can supports SATA, SATA/SAS, or SATA/NVMe disks. Optional one or two internal M.2 SSD for boot, dual M.2 SSD supports mirroring</td>
</tr>
<tr>
<td><strong>Internal storage</strong></td>
<td>2.5&quot; NVMe SSD</td>
</tr>
<tr>
<td></td>
<td>2.5&quot; HHD, SATA6Gbps, 7.2K</td>
</tr>
<tr>
<td></td>
<td>2.5&quot; HHD, SAS12Gbps, 7.2K</td>
</tr>
<tr>
<td></td>
<td>2.5&quot; HHD, SAS12Gbps, 10K</td>
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<td>2.5&quot; SSD, SATA6Gbps</td>
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<tr>
<td></td>
<td>2.5&quot; SSD, SAS12Gbps</td>
</tr>
<tr>
<td></td>
<td>M.2 SATA SSD</td>
</tr>
<tr>
<td><strong>Network interfaces</strong></td>
<td>Optional 4x 10GbE LOM with fabric connector. The fabric connector is supported to routes the four 10GbE ports to Flex system chassis midplane. Optional adapters are supported, up to 2 adapters, up to 40GbE</td>
</tr>
<tr>
<td><strong>Security features</strong></td>
<td>Power-on and admin password. Trusted Platform Module, TCG 1.2 and 2.0 compliant. Optional TCM, China only</td>
</tr>
<tr>
<td><strong>Operating systems supported</strong></td>
<td>Microsoft Windows Server 2016, 2012 R2, Red Hat Enterprise Linux 6 and 7 x64, SUSE Linux Enterprise Server 11 and 12 x64, VMware vSphere 6.0 and 6.5, and ESXi 5.5</td>
</tr>
<tr>
<td><strong>Systems management</strong></td>
<td>UEFI, Lenovo XClarity Controller with iDRAC XE401 baseboard management controller (BMC), Predictive Failure Analysis, light path diagnostics panel, automatic server restart, remote presence. Support for Lenovo XClarity Administrator and Lenovo XClarity Energy Manager</td>
</tr>
<tr>
<td><strong>GPU support</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Base warranty</strong></td>
<td>MT 7x16: 3-year limited onsite service with 9x5/NBD</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>Power to the blade server is derived from the power supplies that are installed in the chassis. There are no server options regarding power supplies.</td>
</tr>
<tr>
<td><strong>Video</strong></td>
<td>Integrated Matrox G200 in XClarity Controller</td>
</tr>
<tr>
<td><strong>Front ports</strong></td>
<td>One USB 3.0, one console breakout cable port that provides local KVM and serial ports (cable standard with chassis, more cables optional)</td>
</tr>
<tr>
<td><strong>Environmental specification</strong></td>
<td>Supports ASHRAE A3.</td>
</tr>
</tbody>
</table>

### Expansion slots

Supports two PCIe 3.0 x16 I/O expansion connectors for attaching I/O adapter cards, each connector uses high-density, 216-pin PCIe connection. Please see I/O adapters below:

- **2x Disk Bays**
- **I/O connector 1**
- **Fabric connector**
- **Optional TCM, China only**

**System unique options**

- **7M27A03915** Lenovo SATA HDD/SSD Backplane for SN550
- **7M27A03916** Lenovo NVMe/SATA Backplane for SN550
- **7M27A03917** Lenovo RAID 530-4i-2GB 2 Drive Adapter Kit for SN550
- **7M27A03918** Lenovo RAID 530-4i 2 Drive Adapter Kit for SN550
- **7X77A01301** Lenovo 8GB TruDDR4 2666 MHz (1Rx8 1.2V) RDIMM
- **7X77A01302** Lenovo 16GB TruDDR4 2666 MHz (1Rx4 1.2V) RDIMM
- **7X77A01303** Lenovo 16GB TruDDR4 2666 MHz (2Rx8 1.2V) RDIMM
- **7X77A01304** Lenovo 32GB TruDDR4 2666 MHz (2Rx16 1.2V) RDIMM
- **7X77A01305** Lenovo 64GB TruDDR4 2666 MHz (4Rx16 1.2V) LRDIMM

**Lenovo, July 2017**
### ThinkSystem SN850 Platform Specifications

#### Components Specification

<table>
<thead>
<tr>
<th>Form factor</th>
<th>Double-width Flex System compute node</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>Height: 55 mm (2.2 in), Width: 435 mm (17.1 in), Depth: 493 mm (19.4 in)</td>
</tr>
<tr>
<td>Chassis support</td>
<td>Flex System Enterprise Chassis with CMM2</td>
</tr>
<tr>
<td>Weight</td>
<td>Maximum configuration: 27 lb (12.3 kg)</td>
</tr>
<tr>
<td>Processor</td>
<td>Supports up to four 165W Intel Xeon Scalable family processors, Gold or Platinum. Up to 28 cores at 2.1GHz, up to 3.6GHz with 4 cores. Up to threeUPI (Ultra Path Interconnect) links at maximum 10.4GT/s each</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel C624 Platform Controller Hub</td>
</tr>
<tr>
<td>Memory</td>
<td>Up to 96 DIMM slots. Each processor supports up to 12 DIMM sockets with 6 channels. DDR4-2666. RDIMMs, LRDIMMs, and 3DS RDIMMs are supported, but memory types cannot be intermixed. 3DS RDIMM is planned to be available later</td>
</tr>
<tr>
<td>Memory capacity</td>
<td>Up to 1.5TB with 48 x 32GB RDIMMs and four processors. Or up to 6TB with 48 x 64GB LRDIMMs and four processors. Memory types cannot be intermixed. -M suffix processors supports 1.5TB memory per socket, non -M suffix processor supports 768GB memory per socket</td>
</tr>
<tr>
<td>Memory protection</td>
<td>Supports the following RAID/HBA adapters:</td>
</tr>
<tr>
<td>Storage controllers</td>
<td>Supports the following RAID/HBA adapters:</td>
</tr>
<tr>
<td>Disk drive bays</td>
<td>Four 2.5&quot; hot-swap disk bays. Depending on server configuration and installed backplanes, the four bays can supports SATA, SATA/SAS, or SATA/NeMe disks. Optional one or two internal M.2 SSD for boot, dual M.2 SSD supports sparing</td>
</tr>
<tr>
<td>Internal storage</td>
<td>Optional 4x 10GbE LOM with fabric connector. The fabric connector is supported to routes the four 10GbE ports to Flex system chassis midplane. Optional adapters are supported, up to 4 adapters, up to 40GbE</td>
</tr>
<tr>
<td>Network interfaces</td>
<td>Supports four PCIe 3.0 x16 I/O expansion connectors for attaching I/O adapter cards, each connector uses high-density, 216-pin PCIe connection. Please see I/O adapters below:</td>
</tr>
<tr>
<td>Security features</td>
<td>Power-on and admin password. Trusted Platform Module, TCG 1.2 and 2.0 compliant. Optional TCM, China only</td>
</tr>
<tr>
<td>Operating systems supported</td>
<td>Microsoft Windows Server 2016, 2012 R2, Red Hat Enterprise Linux 6 and 7 x64, SUSE Linux Enterprise Server 11 and 12 x64, VMware vSphere 6.0 and 6.5</td>
</tr>
<tr>
<td>Systems management</td>
<td>UEFI, Lenovo XClarity Controller with Pilot4 XE401 baseboard management controller (BMC), Predictive Failure Analysis, light path diagnostics panel, automatic server restart, remote presence. Support for Lenovo XClarity Administrator and Lenovo XClarity Energy Manager</td>
</tr>
<tr>
<td>GPU support</td>
<td>None</td>
</tr>
<tr>
<td>Base warranty</td>
<td>MT 7X15: 3-year limited onsite service with 9x5/NBD</td>
</tr>
<tr>
<td>Power supply</td>
<td>Power to the blade server is derived from the power supplies that are installed in the chassis. There are no server options regarding power supplies.</td>
</tr>
<tr>
<td>Video</td>
<td>Integrated Matrox G200 in XClarity Controller</td>
</tr>
<tr>
<td>Front ports</td>
<td>One USB 3.0, one console breakout cable port that provides local KVM and serial ports (cable standard with chassis, more cables optional)</td>
</tr>
<tr>
<td>Environmental specification</td>
<td>Supports ASHRAE A3.</td>
</tr>
</tbody>
</table>

#### System unique options

| 7M1A039330 | Lenovo SATA HDD/SSD kit for SN850 |
| 7M1A039331 | Lenovo NVMe/SATA Enablement Kit for SN850 |
| 7M1A039332 | Lenovo RAID 930-4i-2GB 4 Drive Adapter Kit for SN850 |
| 7X7A01301 | Lenovo 8GB TruDDR4 2666 MHz (1Rx8 1.2V) RDIMM |
| 7X7A01302 | Lenovo 16GB TruDDR4 2666 MHz (1Rx8 1.2V) RDIMM |
| 7X7A01303 | Lenovo 16GB TruDDR4 2666 MHz (2Rx8 1.2V) RDIMM |
| 7X7A01304 | Lenovo 32GB TruDDR4 2666 MHz (2Rx8 1.2V) RDIMM |
| 7X7A01305 | Lenovo 64GB TruDDR4 2666 MHz (4Rx8 1.2V) LRDIMM |
| 00AG540 | Flex System CN4052S 2-port 10Gb Virtual Fabric Adapter |
| 00AG590 | Flex System CN4053S 4-port 10Gb Virtual Fabric Adapter |
| 01CV780 | Flex System CN4052S 2-port 10Gb Virtual Fabric Adapter Advanced |
| 01CV790 | Flex System CN4053S 4-port 10Gb Virtual Fabric Adapter Advanced |
| 7Z7A00502 | Lenovo Mellanox ConnectX-3 Mezz 4Gb 2-Port Ethernet Adapter |
| 7Z7A00520 | Lenovo Emulex LPE16002B-L Mezz 16Gb 2-Port Fibre Channel Adapter |
| 7Z7A00521 | Lenovo Emulex LPE16002B-L Mezz 16Gb 2-Port Fibre Channel Adapter |
| 7Z7A00508 | Lenovo Mellanox ConnectX-3 Mezz 16Gb 2-Port InfiniBand Adapter |
| 7Y37A01092 | Lenovo M 2 Enablement Kit |
| 7Y37A01093 | Lenovo M 2 with Mirroring Enablement Kit |
| 7N47A00129 | Lenovo 2.532GB SATA 6Gbps Non-Hot-Swap SSD |
| 7N47A00130 | Lenovo 2.5128GB SATA 6Gbps Non-Hot-Swap SSD |

---

Lenovo, July 2017
## ThinkSystem D2 Enclosure Platform Specifications

<table>
<thead>
<tr>
<th>Components</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form factor</strong></td>
<td>2U rack</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>Height: 87 mm (3.5 in). Width: 488 mm (19.3 in). Depth: 892 mm (35.1 in)</td>
</tr>
<tr>
<td><strong>Server support</strong></td>
<td>Per enclosure: up to 4 servers per chassis Per 42U rack: up to 84 servers in 21 enclosures</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Maximum configuration with four fully configured nodes: 121.2 lb (55 kg)</td>
</tr>
<tr>
<td><strong>Network interfaces</strong></td>
<td>Optional 8x 10 GbE ports Ethernet I/O Module (EIOM), SFP+ or RJ-45, two ports per server from chipset</td>
</tr>
<tr>
<td><strong>Security features</strong></td>
<td>Power-on and admin password. Trusted Platform Module, TCG 1.2 and 2.0 compliant. Optional TCM, China only</td>
</tr>
<tr>
<td><strong>Systems management</strong></td>
<td>The hot-swappable System Management Module (SMM) is the management device for the enclosure. Provides integrated systems management functions and controls the power and cooling features of the enclosure. Provides remote browser and CLI-based user interfaces for remote access via the dedicated Gigabit Ethernet port. Remote access is to both the management functions of the enclosure as well as the XClarity Controller (XCC) in each server. SMM provides four LEDs: system error, identification, status, and system power. Each power supply has AC, DC and error LEDs</td>
</tr>
<tr>
<td><strong>Base warranty</strong></td>
<td>MT 7X20: 3-year limited onsite service with 9x5/NBD</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>Up to two redundant hot-swap 1100W/1600W/2000W 80 PLUS Platinum qualified AC power supplies. 1600W and 2000W are 200V - 240V, 1100W is 100V - 240V</td>
</tr>
<tr>
<td><strong>Cooling</strong></td>
<td>Five hot-swap system fans, accessible via removable panel in the top cover of the enclosure</td>
</tr>
</tbody>
</table>

### Shuttle

![Shuttle](image)

**Hot-Swap cooling fans**

**System Management Module connection**

**8x 10GbE ports, RJ-45 or SPF+**

**Expansion slots for PCIe 3.0 x8 models**

![Expansion slots for PCIe 3.0 x8 models](image)

**PCle slot 4-A**
**PCle slot 2-A**
**PCle slot 2-B**
**System Management Module**

**Expansion slots for PCIe 3.0 x16 models**

![Expansion slots for PCIe 3.0 x16 models](image)

**PCle slot 3-B**
**PCle slot 3-A**
**PCle slot 1-A**
**PCle slot 1-B**

**Power supply 1**
**Power supply 2**
ThinkSystem SD530 Platform Specifications

Product Specifications Reference (PSREF)

**Components**

- **Form factor**: Half-wide, 1U compute node
- **Dimensions**: Height: 41 mm (1.7 in), Width: 222 mm (8.8 in), Depth: 562 mm (22.2 in)
- **Chassis support**: ThinkSystem D2 Enclosure, 2U. Up to 4 ThinkSystem SD530 servers per enclosure
- **Weight**: Maximum configuration: 16.6 lb (7.5 kg)
- **Processor**: Up to two 165W Intel Xeon Scalable family processors, Bronze, Silver, Gold, or Platinum. Up to 28 cores at 2.1 GHz, up to 3.6 GHz with 4 cores. Up to two UPI (Ultra Path Interconnect) links at maximum 10.4 GT/s each
- **Chipset**: Intel C624 Platform Controller Hub
- **Memory**: Up to 12 or 16 DIMM sockets depending on the processor selected. Each processor supports up to 6 or 8 DIMM sockets. DDR4-2666. RDIMMs and LRDIMMs are supported, but memory types cannot be intermixed.
- **Memory capacity**: 16 DIMMs models: RDIMMs: Up to 512GB with 16x 32GB RDIMMs and two processors LRDIMMs: Up to 1TB with 16x 64GB LRDIMMs and two processors 12 DIMMs models: RDIMMs: Up to 384GB with 12x 32GB RDIMMs and two processors LRDIMMs: Up to 768GB with 12x 64GB LRDIMMs and two processors
- **Memory protection**: ECC, Chipkill protection (for x4-based memory DIMMs), memory mirroring, and memory sparing
- **Storage controllers**: Supports the following RAID adapters:
  - Onboard Intel RSTe
  - 6Gbps SATA
  - 3.5" SAS/SATA
  - 2.5" SAS/SATA
  - 2.5" M.2 SATA SSD
  - 2.5" HDD, SAS12Gbps, 7,2K
  - 2.5" SSD, SATA6Gbps, 7,2K, SED
  - 2.5" SSD, SAS12Gbps, 7,2K, SED
  - 2.5" SSD, SAS12Gbps, 15K
  - 2.5" SSD, SAS12Gbps, 10K
  - 2.5" SSD, SAS12Gbps, 2.4TB
  - 2.5" SSD, SAS12Gbps, 3.84TB
  - 2.5" SSD, SAS12Gbps, 7.68TB

**Environmental specifications**

- **Temperature – operating**: A4: 5°C to 45°C (41°F to 113°F)
  - A3: 5°C to 40°C (41°F to 104°F)
  - A2: 10°C to 30°C (50°F to 86°F)
  - Temperature – non-operating (no package): A2: -40°C to 70°C (-40°F to 158°F)
  - Humidity – operating, non-condensing: A4: 8%~90%, A3: 8%~85%, A2: 20%~80%

**Expansion slots**

- Supports PCIe 3.0 x16 low-profile slot, or two PCIe 3.0 x8 low-profile slots.
  - Slots are housed in I/O shuttle in rear of the D2 Enclosure

**Memory protection**

- **Disk drive bays**: Up to four 2.5" hot-swap disk bays, or up to six 2.5" hot-swap disk bays, or up to six 2.5" hot-swap disk bays with two AnyBay. SAS support requires 530-8i. Optional or two internal M.2 SSD for boot, dual M.2 SSD supports mirroring
- **Internal storage**: 2.5" NVMe SSD
  - 800GB/960GB/1.6TB/1.92TB
  - 2.5" HDD, SATA6Gbps, 7,2K
  - 2TB/2TB
  - 2.5" SAS/SATA12Gbps, 7,2K
  - 2TB
  - 2.5" SAS/SATA12Gbps, 7,2K, SED
  - 1TB/2TB
  - 2.5" HDD, SAS12Gbps, 15K
  - 900GB/600GB/900GB
  - 2.5" SSD, SAS12Gbps, 10K
  - 1.2TB/1.8TB/2.4TB
  - 2.5" SSD, SAS12Gbps, 10K
  - 2.4TB
  - 2.5" SSD, SATA6Gbps
  - 340GB/480GB/960GB/1.92TB/3.84TB
  - 2.5" SSD, SAS12Gbps
  - 600GB/800GB/1.6TB/3.84TB/7.68TB/15.36TB
  - M.2 SATA SSD
  - 256GB/512GB

**Network interfaces**

- **Network interfaces**: Two 10 GbE ports, SFP+ or RJ-45, routed through the Ethernet I/O Module at the rear of the D2 Enclosure. Networking ports are based on Intel Ethernet Connection X722 in chipset

**Security features**

- **Power-on and admin password**: Trusted Platform Module, TCG 1.2 and 2.0 compliant. Optional TCM, China only

**Operating systems supported**

- **Microsoft Windows Server 2016, 2012 R2, Red Hat Enterprise Linux 6 and 7 x86, SUSE Linux Enterprise Server 11 and 12 x64, VMware ESXi 6.0 and 6.5

**Systems management**

- **Operator panel with system error LED and ID and power controls. XClarity Controller embedded management, XClarity Administrator centralized infrastructure delivery, XClarity Integrator plugins, and XClarity Energy Manager centralized server power management. Optional XClarity Controller Advanced to enable remote control functions. System Management Module (SMM) in the D2 Enclosure provides additional systems management functions**

**GPU support**

- **None**

**Base warranty**

- **MT 7X21**: 3-year limited onsite service with 9x5/NBD

**Power supply**

- **Supplied by D2 Enclosure**

**Video**

- **Integrated Matrox G200 in XClarity Controller**

**Front ports**

- Optional KVM breakout module for one USB 3.0 and one console breakout cable port for local KVM and serial ports.
  - KVM breakout module will occupy one disk bay on 6x 2.5" disk bay model

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Lenovo, July 2017
## ThinkSystem SR850 Platform Specifications

### Components Specification

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form factor</strong></td>
<td>2U rack</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>Height: 88.5 mm (3.4 in), Width: 482 mm (19.0 in) with rack latches, Depth: 76.7 mm (30.1 in) without security bezel</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Maximum configuration: 59.52 lb (27 kg)</td>
</tr>
<tr>
<td><strong>Processor</strong></td>
<td>Supports up to four 205W Gen 1 or Gen 2 Intel Xeon Scalable family processors, Gold or Platinum. 2 processor sockets on system board, 2 processor sockets on optional processor and memory expansion tray. Up to 28 cores at 2.7GHz, up to 3.8GHz with 4 cores. Four processors are connected in ring topology with two 10.4GT/s UPI (Ultra Path Interconnect)</td>
</tr>
<tr>
<td><strong>Chipset</strong></td>
<td>Intel C624 Platform Controller Hub</td>
</tr>
<tr>
<td><strong>Memory offering</strong></td>
<td>Up to 48 DIMM sockets. 24 DIMM sockets on system main board, 24 DIMM sockets on optional processor and memory expansion tray. Each processor supports up to 12 DIMM sockets with 6 channels. Supports following:</td>
</tr>
<tr>
<td></td>
<td>Memory Type</td>
</tr>
<tr>
<td></td>
<td>DDR4-2666</td>
</tr>
<tr>
<td></td>
<td>DDR4-2933</td>
</tr>
<tr>
<td></td>
<td>DDR4-2933</td>
</tr>
<tr>
<td></td>
<td>3DS RDIMM</td>
</tr>
<tr>
<td></td>
<td>Performance+ RDIMM</td>
</tr>
<tr>
<td></td>
<td>RDIMM</td>
</tr>
<tr>
<td></td>
<td>3DS RDIMM</td>
</tr>
<tr>
<td><strong>Memory capacity</strong></td>
<td>61TB with 48x 128GB 3DS RDIMM and four M.2 SKU processors</td>
</tr>
<tr>
<td></td>
<td>12TB with 24x 512GB DC Persistent Memory (memory mode) and four L SKU processors</td>
</tr>
<tr>
<td></td>
<td>2TB with 24x 512GB DC Persistent Memory (memory mode) + 24x 128GB 3DS RDIMM and four L SKU processors</td>
</tr>
<tr>
<td><strong>Memory protection</strong></td>
<td>ECC, memory mirroring, and memory sparing</td>
</tr>
<tr>
<td><strong>Storage controllers</strong></td>
<td>Supports the following RAID/HBA adapters:</td>
</tr>
<tr>
<td></td>
<td>Feature</td>
</tr>
<tr>
<td></td>
<td>25G-32d SAS</td>
</tr>
<tr>
<td></td>
<td>32G-32d SAS</td>
</tr>
<tr>
<td></td>
<td>32G-60d SAS</td>
</tr>
<tr>
<td></td>
<td>32G-160d SAS</td>
</tr>
<tr>
<td></td>
<td>32G-60d SAS</td>
</tr>
<tr>
<td></td>
<td>32G-80d SAS</td>
</tr>
<tr>
<td></td>
<td>32G-160d SAS</td>
</tr>
<tr>
<td><strong>Disk drive bays</strong></td>
<td>Supports 8 front 2.5” SATA/SAS/HAS bays with maximum 4 AnyBay, or 16 front 2.5” SATA/SAS</td>
</tr>
<tr>
<td></td>
<td>Internal storage</td>
</tr>
<tr>
<td></td>
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</tr>
<tr>
<td><strong>Optical</strong></td>
<td>No internal optical bay. Optional USB DVD+RW optical drive</td>
</tr>
<tr>
<td><strong>Network interfaces</strong></td>
<td>One dedicated management port. One LOM slot for customized LOM with up to four RJ-45 or SFP+ ports, up to 10GbE. Wake-on-LAN and NC-SI are available on one port of LOM. Optional ML2 or PCIe adapters are supported. ML2 adapter requires riser card with ML2 slot.</td>
</tr>
<tr>
<td><strong>Security features</strong></td>
<td>Power-on and admin password. Trusted Platform Module. TCG 1.2 compliant, update to 2.0 via UEFI setting. Optional TCM in China only, Optional lockable security bezel</td>
</tr>
<tr>
<td><strong>Operating systems supported</strong></td>
<td>Microsoft Windows Server 2018/2012 R2, Red Hat Enterprise Linux 7, SUSE Linux Enterprise Server 12 SP2/11 SP4, VMware vSphere (ESXi) 6.5/6.0/7.0</td>
</tr>
<tr>
<td><strong>Systems management</strong></td>
<td>XClarity Controller Advanced, optional upgrades to Enterprise is available. Energy Manager. XClarity Administrator. Lenovo Capacity Planner. Light Path Diagnostics with optional LCD display panel</td>
</tr>
<tr>
<td><strong>CPU support</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Base warranty</strong></td>
<td>MT 7X18: 1 year limited onsite service with 9x5/NBD</td>
</tr>
<tr>
<td></td>
<td>MT 7X19: 3 year limited onsite service with 9x5/NBD</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>Up to two redundant hot-switch 750W/1100W/1600W 80 PLUS Platinum qualified AC power supplies. 1600W Platinum are 200V - 240V, others are 100V - 240V</td>
</tr>
</tbody>
</table>

### Video

- Integrated Matrox G200 in XClarity Controller

### Cooling

- Six hot-swap fans, N + 1 redundancy

### Front ports

- One XClarity Controller USB connector, one USB 2.0 or USB 3.0 (model dependent), one optional VGA connector

### Rear ports

- One VGA, two USB 3.0, one serial, one XClarity Controller network connector

### Environmental specification

- Temperature - operating: A1: 5°C to 45°C (41°F to 113°F), A2: 5°C to 40°F (15°C to 40°C) |
- Temperature - non operating (with package): A1: -40°C to 70°C (-40°F to 158°F), A2: -40°C to 60°C (-40°F to 140°F) |
- Humidity - operating, non-condensing: A1: 8% - 95%, A2: 20% - 80% |
- Humidity - storage (with package), non-condensing: 8% - 90% |

- Models should meet the following requirements to support A3 and A4:
  - NVMe drives not installed
  - PCIe flash adapter not installed
  - M.2 SSD not installed


### Expansion slots

- Slot 1 (onboard): PCIe 3.0 x16, low profile, requires 2nd CPU
- Slot 2 (onboard): PCIe 3.0 x8, low profile, requires 2nd CPU
- Slot 3 (riser card): Supports one of the following for riser card:
  - Option 1: PCIe 3.0 x8/x8/x8 (slot 3-5). Full height, half length.
  - Option 2: PCIe 3.0 x8/x8/x8 (slot 3-5). Full height, half length
  - Option 4: PCIe 3.0 x16 (slot 3 and 5). Full height, half length
  - Slot 3 - requires 2nd CPU
- Slot 4 (onboard): PCIe 3.0 x8, low profile
- Slot 5 (onboard): PCIe 3.0 x8, low profile
- Slot 6 (onboard): PCIe 3.0 x8, low profile
- Slot 7 (onboard): PCIe 3.0 x8, low profile
- Slot 8 (onboard): PCIe 3.0 x8, low profile
- Slot 9 (onboard): PCIe 3.0 x8, low profile
- Slot 10 (onboard): PCIe 3.0 x8, low profile
- Slot 11 (onboard): PCIe 3.0 x16, low profile

### System unique options for ThinkSystem SR850

- 7B27A03953 ThinkSystem SR850/SR860 Processor and Memory Expansion Tray
- 7C5A03999 ThinkSystem SR850/SR860 2.5" Anybay 8-Bay BP Kit
- 7C5A03998 ThinkSystem SR850/SR860 2.5" SATA/SAS 8-Bay BP Kit
- 7X97A03954 ThinkSystem SR850 Front VGA Connector Upgrade Kit
- 7C5A03950 ThinkSystem SR850/SR860 3x8x8x8 PCIe FH Riser Kit
- 7C5A03951 ThinkSystem SR850/SR860 3x8x8x8 PCIe FH Riser Kit
- 7C5A03952 ThinkSystem SR850/SR860 3x8x16 PCIe FH Riser Kit

Lenovo, April 2019
Product Specifications Reference (PSREF)

**Components**
- **Form factor**: 4U rack
- **Dimensions**: Height: 175.8 mm (6.9 in), Width: 483 mm (19.0 in) at EIA Flange, Depth: 853 mm (33.6 in)
- **Weight**: Maximum configuration: 124.9 lb (56.7 kg)

**Processor**
- Supports up to four Gen 1 or Gen 2 Intel Xeon Scalable family processors, Gold or Platinum. Or up to eight Intel Xeon Scalable family processors, Platinum only:
  - Processors and memory boards are located on system boards installed in compute trays: 2 processors per system board, 2 system boards per compute tray, up to 2 compute tray per system. Up to 28 cores at 2.70GHz, up to 3.90GHz with 4 cores. Up to three UPI (Ultra Path Interconnect) links at maximum 10.4GT/s each.

**Chipset**
- Intel C624 Platform Controller Hub
- Up to 96 DIMM sockets. Each processor supports up to 12 DIMM sockets with 6 channels. Supports following:
  - DDR4-2933
  - 240GB/480GB

**Memory**
- **Memory offering**:
  - RDIMM
    - DDR4-2933 64GB/128GB/256GB/512GB
  - 3DS RDIMM
  - DDR4-2666 64GB

**Memory capacity**
- 24TB with 96x 256GB 3DS RDIMM and eight L SKU processors
- 24TB with 48x 512GB DC Persistent Memory (memory mode) and eight L SKU processors
- 36TB with 48x 512GB DC Persistent Memory (memory mode) + 48x 256GB 3DS RDIMM and eight L SKU processors

**Memory protection**
- ECC, memory mirroring, and memory rank sparing.

**Storage controllers**
- Up to two dedicated internal RAID slots for most RAID/HBA adapters. Supports the following RAID/HBA adapters:
  - 3D-1: 12Gbps SAS SATA/8AS
  - 3D-2: 12Gbps SAS SATA/8AS

**Disk drive bays**
- Up to 12 disk bays with maximum 6 AnyBay, or up to 24 disk bays with maximum 12 AnyBay. Optional one or two internal M.2 SSD for boot, dual M.2 SSD supports mirroring
  - 3.5" NVMe SSD, AnyBay
  - 2.5" HHD, SAS12Gbps, 7.2K
  - 2.5" HHD, SAS12Gbps, 15K

**Internal storage**
- 2.5" SSD, SAS12Gbps, 128GB/256GB/512GB/1TB/2TB/3.84TB/7.68TB
- NVMe SSD, PCIe x4 HHHL adapter
- M.2 SATA SSD

**Network interfaces**
- One dedicated management port. One LOM slot for customized LOM with up to four F4-45 or SFP+ ports, up to 10GbE. Wake-on-LAN and NC-SI are available on Port 0 of LOM. Optional ML2 or PCIe adapters are supported. One standard ML2 slot, one optional ML2 slot via optional riser card

**Security features**
- Power-on and admin password, Trusted Platform Module, TCG 1.2 compliant, upgrade to 2.0 via UEFI setting. Optional TCM, China only

**Operating systems supported**
- Microsoft Windows Server 2018/2012 R2, Red Hat Enterprise Linux 7/6/5, SUSE Linux Enterprise Server 12 SP2/11 SP4, VMware vSphere (ESXi) 6.5/6.0/6.3

**Systems management**
- XClarity Controller Enterprise, XClarity Administrator, XClarity Energy Manager, XClarity Provisioning Manager, XClarity Essentials, Lenovo Capacity Planner, Light Path Diagnostics with LCD diagnostic pull-out panel

**GPU support**
- None

**Base warranty**
- MT 7X11: 1-year limited onsite service with 9x5NBD
- MT 7X12: 3-year limited onsite service with 9x5NBD
- MT 7X13: 3-year limited onsite service with 9x5NBD, SAP HANA optimized

**Power supply**
- Supports one, two or four hot-swap 1100W/1600W 80 PLUS Platinum qualified AC power supplies. Redundant with two or four power supplies (N+N, N = 1 or 2).

**Video**
- Integrated Matrox G200 in XClarity Controller

**Cooling**
- Up to 12 hot-swap fans, N +1 redundancy, 6 fans per compute tray, 3 fans per storage tray

**Front ports**
- One XClarity Controller USB connector, one USB 2.0, one VGA

**Rear ports**
- One VGA, two USB 3.0, one serial, one XClarity Controller network connector

**Environmental**
- Supports ASHRAE A4 with limitations.

**Environmental specification**
- Temperature - operating:
  - A4: 5°C to 40°C (41°F to 104°F)
  - A2: 5°C to 40°C (41°F to 104°F)
  - A1: 5°C to 35°C (41°F to 95°F)

**Environmental certification**
ThinkSystem SR250 Platform Specifications

**Components**

- **Form factor**: 1U rack
- **Dimensions**: Height: 43 mm (1.7 in), width: 434.4 mm (17.1 in), depth: 497.8 mm (19.6 in). The depth is counted from EIA flange front surface to rear of chassis.
- **Weight**: Maximum configuration: 27.1 lb (12.3 kg)
- **Processor**
  - Up to one Intel Xeon E family processor, up to 95W, up to 6 cores at 3.8GHz, up to 12MB cache, up to DDR4-2666 memory speed.
  - Or up to one 8th Intel Core i3 processor, up to 91W, up to 4 cores at 4.0GHz, up to 8MB cache, up to DDR4-2400 memory speed.
  - Or up to one Intel Pentium Gold processor, up to 54W, 2 cores at 3.9GHz, 4MB cache, DDR4-2400 memory speed.
- **Chipset**: Intel C246 Platform Controller Hub
- **Memory**: 4 DIMM sockets with 2 channels, 2 DIMMs per channel. UDIMM. DDR4-2400.
- **Memory capacity**: 64GB with 4x 16GB UDIMMs
- **Memory protection**: ECC

**Storage controllers**

- Supports the following RAID/HBA adapters:

<table>
<thead>
<tr>
<th>RAID adapter</th>
<th>Interface</th>
<th>Drive type</th>
<th>RAID levels</th>
<th>JBOD Cache</th>
<th>Cache protection</th>
<th>FastPath</th>
</tr>
</thead>
<tbody>
<tr>
<td>Onboard SATA</td>
<td>6Gbps SATA</td>
<td>SATA</td>
<td>0/1/0/5</td>
<td>Yes</td>
<td>None</td>
<td>Yes</td>
</tr>
<tr>
<td>720-B</td>
<td>12Gbps SAS/SATA</td>
<td>SATA/SAS</td>
<td>0/1/0/5/50</td>
<td>Yes</td>
<td>None</td>
<td>Yes</td>
</tr>
<tr>
<td>720-B</td>
<td>12Gbps SAS/SATA</td>
<td>SAS</td>
<td>0/1/0/5/50</td>
<td>Yes</td>
<td>None</td>
<td>Yes</td>
</tr>
<tr>
<td>720-B</td>
<td>12Gbps SAS/SATA</td>
<td>SAS</td>
<td>0/1/0/5/50</td>
<td>Yes</td>
<td>None</td>
<td>Yes</td>
</tr>
<tr>
<td>720-B</td>
<td>12Gbps SAS/SATA</td>
<td>SAS</td>
<td>0/1/0/5/50</td>
<td>Yes</td>
<td>None</td>
<td>Yes</td>
</tr>
<tr>
<td>840-B</td>
<td>12Gbps SAS/SATA</td>
<td>SAS</td>
<td>0/1/0/5/50</td>
<td>Yes</td>
<td>None</td>
<td>Yes</td>
</tr>
<tr>
<td>840-B</td>
<td>12Gbps SAS/SATA</td>
<td>SAS</td>
<td>0/1/0/5/50</td>
<td>Yes</td>
<td>None</td>
<td>Yes</td>
</tr>
<tr>
<td>840-B</td>
<td>12Gbps SAS/SATA</td>
<td>SAS</td>
<td>0/1/0/5/50</td>
<td>Yes</td>
<td>None</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Disk drive bays**

- Supports 4 front 3.5" SATA simple-swap bays. Or 4 front 3.5" SATA/SAS HS bays. Or 8 front 2.5" SATA/SAS HS bays. Or 10x 2.5" HS bays with 8 SATA/SAS bays plus 2 AnyBay.
- Optional one internal M.2 SSD for boot, consumes one onboard SATA port.

**Disk support**

- For 3.5" SB bay (3.5 disks or 2.5 disks with 3.5" tray)
  - 3.5" HDD, SATADF6 7.2K TSTB2/4TB/4TB/4TB
  - 3.5" SSD, SATADF6 40GB/60GB/60GB
  - 3.5" HDD, SATADF6 7.2K TSTB2/4TB/4TB/4TB
  - 3.5" SSD, SATADF6 40GB/60GB/60GB
  - 2x SATA 4GB/4GB/4GB/4GB

- For 2.5" SB bay
  - 2.5" HDD, SATADF6 7.2K TSTB2/4TB/4TB/4TB
  - 2.5" HDD, SATADF6 7.2K TSTB2/4TB/4TB/4TB
  - 2.5" HDD, SATADF6 40GB/60GB/60GB
  - 2.5" SSD, SATADF6 40GB/60GB/60GB

**Optical**

- None optical bay, using USB optical (External USB DVD-RW, PN: 7XA7A05926)

**Network interfaces**

- Two onboard GbE port via integrated gigabit ethernet Broadcom BCM5720 plus one dedicated management port. Optional PCIe ethernet adapters are available.

**Security features**

- Power-on and admin password. Trusted Platform Module, TCG 1.2 or 2.0 compliant. Optional TCM in China only. Optional chassis intrusion switch, Kensington lock, and padlock.

**Operating systems supported**

- Microsoft Windows Server 2019/2016/2012 R2. Red Hat Enterprise Linux 7.5. SUSE Linux Enterprise Server 12 SP3, VMware vSphere (ESXi) 6.7/6.5 U2

**Systems management**

- XClarity Controller Standard, optional upgrades to Advanced or Enterprise are available. Energy Manager. XClarity Administrator. LEDs on front panel show the status of power, ID, network, simple-swap disks, and system error

**GPU support**

- Up to one optional GPU, NVIDIA Quadro P620

**Base warranty**

- MT 7Y51: 3-year limited onsite service with 9x5/NBD
  - MT 7Y52: 1-year limited onsite service with 9x5/NBD

**Power supply**

- Supports one of the following PSU:
  - One fixed power supply, 300W. 80 PLUS Gold certified.
  - Up to two redundant hot-swap power supplies, 450W each. 80 PLUS Platinum certified

---

Lenovo, November 2017
**Components**

<table>
<thead>
<tr>
<th>Form factor</th>
<th>1U rack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>Height: 43 mm (1.7 in), Width: 482 mm (19.0 in) with rack latches, Depth: 778.3 mm (30.64 in)</td>
</tr>
<tr>
<td>Weight</td>
<td>Maximum configuration: 35.27 lb (16 kg)</td>
</tr>
<tr>
<td>Processor</td>
<td>Up to two 125W Gen 1 or Gen 2 Intel Xeon Scalable family processors, Bronze, Silver, Gold, or Platinum. Up to 22 cores at 1.9GHz, up to 3.8GHz with four cores. Two processors are connected with two UPI (Ultra Path Interconnect) links with up to 10.4GT/s</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel C622 Platform Controller Hub</td>
</tr>
</tbody>
</table>

**Memory**

<table>
<thead>
<tr>
<th>Memory Type</th>
<th>Speed</th>
<th>Offering</th>
</tr>
</thead>
<tbody>
<tr>
<td>RDIMM</td>
<td>DDR4-2933 8GB/16GB/32GB/64GB</td>
<td></td>
</tr>
<tr>
<td>RDIMM</td>
<td>DDR4-2666 8GB/16GB/32GB</td>
<td></td>
</tr>
<tr>
<td>LRDDIMM</td>
<td>DDR4-2666 8GB</td>
<td></td>
</tr>
</tbody>
</table>

**Memory capacity**

8GB with 12x 64GB RDIMM and dual processor.

**Memory protection**

ECC, memory mirroring, and memory sparing.

Supports the following RAID/HBA adapters:

<table>
<thead>
<tr>
<th>RAID adapter</th>
<th>Interface</th>
<th>Drive type</th>
<th>RAID levels</th>
<th>JBOD</th>
<th>Cache</th>
<th>Cache protection</th>
<th>FastPath</th>
<th>Max qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>For SS bays</td>
<td>SATA</td>
<td>6Gbps SATA</td>
<td>1/10/5</td>
<td>Yes</td>
<td>None</td>
<td>None</td>
<td>No</td>
<td>-</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>For HS bays</td>
<td>SATA/SAS</td>
<td>6Gbps SAS</td>
<td>1/10/5</td>
<td>Yes</td>
<td>None</td>
<td>None</td>
<td>No</td>
<td>-</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>TIER</td>
<td>TIER</td>
<td>No</td>
<td>1</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

**Storage controllers**

- **Optical**
  - Support for 4 front 3.5" SATA simple-swap bays, or 4 front 3.5" SATA/SAS HS bays, or 8 front 2.5" SATA/SAS HS bays.
- **Internal storage**
  - For 3.5" bay (3.5" disks or 2.5" disks with 3.9" tray)
  - For 2.5" bay

**Disk drive bays**

- **For 3.5" bay (3.5" disks or 2.5" disks with 3.9" tray)**
  - HDD, SAS 6GBps, 7.2K
  - SSD, 2GB 600GB/400GB

**Network interfaces**

- Integrated one dedicated management port plus two GBE ports. One LOM slot for customized LOM with two RJ-45 or SFP+ ports, up to 10GBe. Optional ML2 or PCIe adapters are supported. ML2 adapter requires riser card with ML2 slot. Up to two ports supports Wake-on-LAN and NC-SI (see below).

**Security features**

- Power-on and admin password. Trusted Platform Module, TCG 1.2 compliant, upgrade to 2.0 via UEFI setting. Optional TCM in China only. Optional lockable security bezel.

**Operating systems supported**

- Microsoft Windows Server 2012/2012 R2, Red Hat Enterprise Linux 7.4/7.6/8, SUSE Linux Enterprise Server 12 SP3/12 SP5/11 SP4, VMware ESXi 6.4/6.5/6.0/5.5, Citrix XenServer 6.2/6.3.

**System management**

- XClarity Controller Standard, optional upgrades to Advanced or Enterprise are available. Energy Manager, XClarity Administrator, Lenovo Capacity Planner, Provisioning Manager, Essentials, Light Path Diagnostics.

**GPU support**

- None

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**Lenovo, April 2019**
**Components**

<table>
<thead>
<tr>
<th>Specification</th>
<th>1TB/2TB/4TB/6TB/8TB/10TB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form factor</td>
<td>2U rack</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Height: 86.5 mm (3.4 in); Width: 482 mm (19.0 in) with rack latches. Depth: 763.7 mm (30.1 in)</td>
</tr>
<tr>
<td>Weight</td>
<td>Maximum configuration: 57.32 lb (26 kg)</td>
</tr>
<tr>
<td>Processor</td>
<td>Up to two 125W Gen 1 or Gen 2 Intel Xeon Scalable family processors, Bronze, Silver, Gold, or Platinum. Up to 22 cores at 1.9GHz, up to 3.8GHz. Four cores are interconnected links up to 10.4GT/s</td>
</tr>
<tr>
<td>Memory offering</td>
<td>Up to 12 DIMM sockets. Each processor supports up to 6 DIMM sockets with 6 channels. Supports following:</td>
</tr>
<tr>
<td>Memory Type</td>
<td>Speed Offering</td>
</tr>
<tr>
<td>DDR4-2933</td>
<td>6GB/16GB/32GB/64GB</td>
</tr>
<tr>
<td>DDR4-2666</td>
<td>8GB/16GB/32GB/64GB</td>
</tr>
<tr>
<td>Memory capacity</td>
<td>78GB with 12x 64GB RDIMM and dual processor</td>
</tr>
<tr>
<td>Memory protection</td>
<td>ECC, memory mirroring, and memory sparing</td>
</tr>
</tbody>
</table>

**Storage controllers**

<table>
<thead>
<tr>
<th>RAID adapter</th>
<th>Interface</th>
<th>Drive type</th>
<th>RAID levels</th>
<th>jBOD</th>
<th>Cache</th>
<th>Cache protection</th>
<th>FastPath</th>
<th>Max qty</th>
</tr>
</thead>
</table>

**Disk drive bays**

Supports 8 front 3.5" SATA simple-swap bays, or 8 front 3.5" SATA/SAS HS bays, or 12 front 3.5" SATA/SAS HS bays, or 8 front 2.5" SATA/SAS HS bays, or 16 front 2.5" SATA/SAS HS bays. Optional one or two internal M.2 SSD for boot, dual M.2 SSD supports mirroring.

**Optical**

No internal optical bay. Optional USB DVD±RW optical drive

**Network interfaces**

Integrated one dedicated management port plus 2GbE ports. One LOM slot for customized LOM with two RJ-45 or SFP+ ports, up to 10GbE. Optional 8GbE or PCIe adapters are supported. M.2 adapter requires Direct Pci slot with M2 slot.

**Security features**

Power-on and admin password. Trusted Platform Module, TCG 1.2 compliant, upgrade to 2.0 via UEFI setting. Optional TPM in China only. Optional lockable security bezel

**Operating system support**

Microsoft Windows Server 2012 R2, Red Hat Enterprise Linux 7.x 32/64, SUSE Linux Enterprise Server 12 SP3/12 SP2/11 SP4, VMware ESXi 6.5U1/6.5/6.0 U3

**Systems management**

XClarity Controller Standard, optional upgrades to Advanced or Enterprise are available. Energy Manager, XClarity Administrator, Lenovo Capacity Planner, Provisioning Manager, Essentials, Light Path Diagnostics

**GPU support**

None

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**Environmental specification**

- **Power supply**: Up to two redundant hot-swap 550W and 750W 80 PLUS Platinum qualified AC power supplies. Or up to two redundant hot-swap 750W Titanium qualified AC power supplies. 750W Titanium is 200V - 240V, others are 100V - 240V
- **Video**: Integrated Matrox G200 in XClarity Controller
- **Cooling**: Three fans (2+1) for single processor models, four fans (3+1) for dual processor models
- **Environmental certification**: Energy Star Server 2.1 certified. More environmental information please see Lenovo, April 2019
### ThinkSystem SR570 Platform Specifications

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form factor</strong></td>
<td>1U rack</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>Height: 43 mm (1.7 in), Width: 482 mm (19.0 in) with rack latches, Depth: 778.3 mm (30.64 in)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Maximum configuration: 35.27 lb (16 kg)</td>
</tr>
<tr>
<td><strong>Processor</strong></td>
<td>Up to two 150W Gen 1 or Gen 2 Intel Xeon Scalable family processors, Bronze, Silver, Gold, or Platinum. Up to 26 cores at 2.0GHz, up to 3.8GHz with 4 cores. Two processors are connected with two LPIs (Ultra Path Interconnected) links up to 10.4GT/s each</td>
</tr>
<tr>
<td><strong>Chipset</strong></td>
<td>Intel C622 Platform Controller Hub</td>
</tr>
<tr>
<td><strong>Memory offering</strong></td>
<td>Up to 16 DIMM sockets. Each processor supports up to 8 DIMM sockets with 6 channels. Supports following:</td>
</tr>
<tr>
<td><strong>Memory type</strong></td>
<td>Speed</td>
</tr>
<tr>
<td>DDR4-2666</td>
<td>28GB/256GB/512GB</td>
</tr>
<tr>
<td>DDR4-2933</td>
<td>8GB/16GB/32GB/64GB</td>
</tr>
<tr>
<td>DDR4-2666</td>
<td>8GB/16GB/32GB/64GB</td>
</tr>
<tr>
<td><strong>Memory capacity</strong></td>
<td>1TB with 16x 64GB RDIMM and dual processor</td>
</tr>
<tr>
<td></td>
<td>• 2TB with 4x 512GB DC Persistent Memory and dual processor (Gen 2 or M SKU Gen 1)</td>
</tr>
<tr>
<td></td>
<td>• 2.76TB with 4x 512GB DC Persistent Memory + 12x 64GB RDIMM and processor (Gen 2 or M SKU Gen 1)</td>
</tr>
<tr>
<td><strong>Memory protection</strong></td>
<td>ECC, memory mirroring, and memory sparing</td>
</tr>
<tr>
<td><strong>Storage controllers</strong></td>
<td>Supports the following RAID/HBA adapters:</td>
</tr>
<tr>
<td><strong>RAID adapter</strong></td>
<td>Interface</td>
</tr>
<tr>
<td><strong>For SS bays</strong></td>
<td>Onboard Sata</td>
</tr>
<tr>
<td>630-BI</td>
<td>6Gb SATA</td>
</tr>
<tr>
<td>730-BI</td>
<td>6Gb SAS</td>
</tr>
<tr>
<td><strong>For HS bays</strong></td>
<td>630-BI</td>
</tr>
<tr>
<td>730-BI</td>
<td>12Gb SAS</td>
</tr>
<tr>
<td><strong>Disk drive bays</strong></td>
<td>Support 4 front 3.5&quot; SATA simple-swap bays, or 4 front 3.5&quot; SATA/SAS HS bays, or 8 front 2.5&quot; SATA/SAS HS bays, or 10 front 2.5&quot; SATA/SAS HS bays with 4 AnyBay. Optional one or two internal M.2 SSD for boot, dual M.2 SSD supports mirroring</td>
</tr>
<tr>
<td><strong>Internal storage</strong></td>
<td>For 3.5&quot; SSD bay</td>
</tr>
<tr>
<td></td>
<td>3.5&quot; HDD, SATA6Gbs, 7.2K</td>
</tr>
<tr>
<td></td>
<td>3.5&quot; HDD, SAS12Gbs, 15K</td>
</tr>
<tr>
<td></td>
<td>2.5&quot; SSD, SATA6Gbs</td>
</tr>
<tr>
<td></td>
<td>2.5&quot; NVMe SSD, AnyBay</td>
</tr>
<tr>
<td><strong>For 3.5&quot; bay</strong></td>
<td>2.5&quot; HDD, SATA6Gbs, 7.2K</td>
</tr>
<tr>
<td></td>
<td>2.5&quot; HDD, SAS12Gbs, 15K</td>
</tr>
<tr>
<td></td>
<td>2.5&quot; SSD, SATA6Gbs</td>
</tr>
<tr>
<td></td>
<td>2.5&quot; NVMe SSD, AnyBay</td>
</tr>
<tr>
<td><strong>For 2.5&quot; bay</strong></td>
<td>2.5&quot; HDD, SATA6Gbs, 7.2K</td>
</tr>
<tr>
<td></td>
<td>2.5&quot; SSD, SATA6Gbs</td>
</tr>
<tr>
<td><strong>M.2 boot drive</strong></td>
<td>M.2 SATA SSD</td>
</tr>
<tr>
<td><strong>Optical</strong></td>
<td>No internal optical bay. Optional USB DVD+RW optical drive</td>
</tr>
<tr>
<td><strong>Network interfaces</strong></td>
<td>Integrated one dedicated management port plus two GBE ports. One LOM slot for customized COM with two RJ-45 or SFP+ ports, up to 10Gbps. Optional ML2 or PCIe adapters are supported. ML2 adapter requires riscard with ML2 slot. Up to two ports supports Wake-on-LAN and NC-SI (see right)</td>
</tr>
<tr>
<td><strong>Security features</strong></td>
<td>Power-on and admin password. Trusted Platform Module, TCG 1.2 compliant, upgrade to 2.0 via UEFI setting. Optional TCM in China only. Optional lockable security bezel</td>
</tr>
<tr>
<td><strong>Operating systems supported</strong></td>
<td>Microsoft Windows Server 2016/2012 R2, Red Hat Enterprise Linux 7/3.6.9, SUSE Linux Enterprise Server 12 SP2/11 SP4, VMware ESXi 6.5/6.0/6.7</td>
</tr>
<tr>
<td><strong>System management</strong></td>
<td>XClarity Controller Standard, optional upgrades to Advanced or Enterprise are available. Energy Manager, XClarity Administrator, Lenovo Capacity Planner. Provisioning Manager. Essentials, Light Path Diagnostics</td>
</tr>
<tr>
<td><strong>GPU support</strong></td>
<td>None</td>
</tr>
</tbody>
</table>

**Components**

- **Base warranty**: MT 7Y02: 1-year limited onsite service with 9x5/NBD MT 7Y03: 3-year limited onsite service with 9x5/NBD
- **Power supply**: Up to two redundant hot-swap 550W and 750W 80 PLUS Platinum qualified AC power supplies. Or up to two redundant hot-swap 750W Titanium qualified AC power supplies. 750W Titanium is 200V - 240V, others are 100V - 240V
- **Video**: Integrated Matrox G200 in XClarity Controller
- **Cooling**: 4x 3.5" or 8x 2.5" models: four fans for single processor model, six fans for dual processor model, all fans are 4028, fans for both single and dual processor models, all fans are 4056
- **Front ports**: One XClarity Controller USB, one USB 3.0, one optional VGA
- **Rear ports**: One XClarity Controller USB, two USB 3.0, two ethernet (H3-4b), one XClarity Controller connector, Optional COM port

**Environmental specification**


**Expansion slots**

- **Slot 1-2 (riser card 1)** supports one of the following for riser card 1:
  - Option 1: PCIe 3.0 x8/lx16 (slot 1-2). Low profile for x8, low profile or full height length for x16
  - Option 2: PCIe 3.0 x8/lx16 (slot 1-2). Low profile
- **Slot 3 (riser card 2)** supports one of the following for single processor model:
  - Option 1: PCIe 3.0 x8, low profile, for single processor model
  - Option 2: PCIe 3.0 x16, low profile, for dual processor model

**System unique options**

- **X97AY05892**: ThinkSystem SR530/SR570 x8/x8ML2 PCIe LP+LP Riser 1 Kit
- **X97AY05893**: ThinkSystem SR530/SR570 x8/x8ML2 PCIe LP+LP Riser 2 Kit
- **X97AY05894**: ThinkSystem SR530/SR570 x8/x8ML2 PCIe L+LP Riser 1 Kit
- **X97AY05895**: ThinkSystem SR530/SR570 x8/x8ML2 PCIe L+LP Riser 2 Kit
- **Z71AY02579**: ThinkSystem SR530/SR570/FR630 Front VGA Controller Upgrade Kit
- **Z71AY02581**: ThinkSystem SR54 x 2U Security Bezel
- **Z71AY02582**: ThinkSystem SR570 x 2U COM Port Upgrade Kit
- **X97AY03762**: ThinkSystem SR570 2.9" SATA/SAS 8-Bay Backplane Kit

Lenovo, April 2019
### ThinkSystem SR590 Platform Specifications

**Form factor:** 2U rack

**Dimensions:** Height: 86.5 mm (3.4 in); Width: 482 mm (19.0 in) with rack latches; Depth: 763.7 mm (30.1 in)

**Weight:** Maximum configuration: 61.7 lb (28 kg)

**Processor:** Up to two 150W Gen 1 or Gen 2 Intel Xeon Scalable family processors, Bronze, Silver, Gold, or Platinum. Up to 26 cores at 2.0GHz, up to 3.8GHz with 4 cores. Two processors are connected with two UPI (Ultra Path Interconnect) links up to 10.4GT/s each

**Chipset:** Intel C622 Platform Controller Hub

**Memory offering:** Up to 16 DIMM sockets. Each processor supports up to 8 DIMM sockets with 6 channels. Supports following:

<table>
<thead>
<tr>
<th>Memory Type</th>
<th>Speed Offering</th>
</tr>
</thead>
<tbody>
<tr>
<td>RDIMM</td>
<td>2400/1866/1600/1333</td>
</tr>
<tr>
<td>UDIMM</td>
<td>1600/1333</td>
</tr>
</tbody>
</table>

**Memory capacity:**
- 1TB with 16x 64GB RDIMM and dual processor
- 2TB with 4x 512GB DC Persistent Memory and dual processor (Gen 2 or M SKU Gen 1)
- 2.76TB with 4x 512GB DC Persistent Memory + 12x 4GB RDIMM and processor (Gen 2 or M SKU Gen 1)

**Memory protection:** ECC, memory mirroring, and memory sparing

**Storage controllers:** Supports the following RAID/HBA adapters:

<table>
<thead>
<tr>
<th>RAID level</th>
<th>Interface</th>
<th>Drive type</th>
<th>RAID adapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>SATA</td>
<td>8GB SATA</td>
<td>970-8e</td>
</tr>
<tr>
<td>1</td>
<td>SAS</td>
<td>12GB SAS</td>
<td>430-16e</td>
</tr>
<tr>
<td>5</td>
<td>SAS</td>
<td>12GB SAS</td>
<td>930-8i</td>
</tr>
<tr>
<td>6</td>
<td>SAS</td>
<td>12GB SAS</td>
<td>730-8i</td>
</tr>
</tbody>
</table>

**Disk drive bays:** Supports 3.5” Simple-swap bay up to 8, or 3.5” HS bay up to 12, or 2.5” HS bay up to 12. On 12x 3.5”, 8x 2.5”, or 16x 2.5” bay models, 4 bays can be upgrade to AnyBay. Optional 2 rear 3.5” HS bays are supported on all 3.5” models, takes place in riser card 1 location. Optional one or two internal M.2 SSD for boot, dual M.2 SSD supportsmirroring.

**Internal storage:**
- 3.5" SSD, SAS6Gbps, 7.2K<br>- 2.5" SSD, SAS6Gbps, 7.2K<br>- 2.5" SSD, SAS6Gbps, 15K<br>- 960GB, 960GB, 960GB (1TB/1TB/1TB)

**Power supply:** Up to two redundant hot-swap 550W and 750W 80 PLUS Platinum qualified AC power supplies. Or up to two redundant hot-swap 750W Titanium qualified AC power supplies. 750W Titanium is 200V - 240V, others are 100V - 240V

**Video:** Integrated Matrox G200 in XClarity Controller

**Cooling:** Three fans (2+1) for single processor model, four fans (3+1) for dual processor model

**Front ports:** One XClarity Controller USB, one USB 3.0, one optional VGA

**Rear ports:** One VGA, two USB 3.0, two ethernet (RJ-45), one XClarity Controller connector. Optional COM port

**Environmental specification:**
- Temperature - operating: A1: 40°C to 50°C (104°F to 122°F)
- Humidity - operating, non-condensing: 50% ~ 90%RH

Components Specification

Form factor 1U rack
Dimensions Height: 43 mm (1.7 in), width: 482 mm (19.0 in) with rack latches, depth: 778.3 mm (30.64 in)
Weight Maximum configuration: 41.9 kg (91 lb)
Processor Up to two 205W Gen 1 or Gen 2 Intel Xeon Scalable family processors, Bronze, Silver, Gold, or Platinum. Up to 28 cores at 2.7 GHz, up to 3.8 GHz with 4 cores. Two processors are connected with twoUPI (Ultra Path Interconnect) links up to 10.4 GT/s
Chipset Intel C624 Platform Controller Hub
Memory offering Up to 24 DIMM sockets. Each processor supports up to 12 DIMM sockets with 6 channels. Supports following:
- DDR4-2933
- Five fans (4+1) for single processor model, seven fans (6+1) for dual processor model
- 3TB with 24x 128GB 3DS RDIMM and dual M or L SKU processor
- 800GB/960GB/1.6TB/1.92TB/3.84TB
- Performance- RDIMM DDR4-2933 16GB/32GB/64GB
- Performance- 3DS RDIMM DDR4-2933 32GB
- DDR4-2666

Memory protection ECC, memory mirroring, and memory sparing

Storage controllers One dedicated internal RAID slot for most RAID/HBA adapters. Supports the following RAID/HBA adapters.

Disk drive bays Supports the following disk bay configurations, optional rear bay occupies riser card 1 location:

Disk drive bays

Expansion slots Slot 1-2 (riser card 1) Supports one of the following for riser card 1:
- Option 1: PCIe x8 x16 (slot 1-2), Low profile for x8, low profile or full height half full height for x16
- Option 2: PCIe x4 x8 ML2x16 (slot 1-2), Low profile for x8 ML2, low profile or full height half full height for x16
- Option 3: PCIe x16 ML2x8 (slot 1-2), Low profile for x16 ML2, low profile or full height half full height for x8
- Option 4: 2x 2.5" drive bay, for 10 x 2.5" model only

Slot 3 (riser card 2) PCIe x8 x16, low profile, requires 2nd CPU. When slot 2 is full height, slot 3 cannot be used

System unique options

Lenovo, April 2019
**ThinkSystem SR650 Platform Specifications**

### Product Specifications Reference (PSREF)

#### Form factor
- **2U rack**

#### Dimensions
- **Height:** 86.5 mm (3.4 in)  
- **Width:** 482 mm (19.0 in) with rack latches.  
- **Depth:** 76.3 mm (30.1 in)

#### Weight
- **Maximum configuration:** 70.5 lb (32 kg)

#### Processor
- **Up to two 205W Gen 1 or Gen 2 Intel Xeon Scalable family processors, Bronze, Silver, Gold, or Platinum.**
- **Up to 28 cores at 2.7GHz, up to 3.8GHz with 4 cores.**
- **Two processors are connected with two UPI (Ultra Path Interconnected) links up to 10.4GT/s**

#### Chipset
- **Intel C624 Platform Controller Hub**

#### Memory
- **Up to 24 DIMM sockets.**
- **Each processor supports up to 12 DIMM sockets with 6 channels.**

##### Memory Types
- **DDR4-2666, DDR4-2933**

##### Memory Capacity
- **3TB with 24x 128GB 3DS RDIMM and dual M or L SKU processor**
- **6TB with 12x 512GB DC Persistent Memory (memory mode) and dual L SKU processor**
- **7.5TB with 12x 512GB DC Persistent Memory (memory mode) + 12x 12GB 3DS RDIMM and dual L SKU processor**

#### Storage controllers
- **One dedicated internal RAID slot for most RAID/HBA adapters.**

##### Storage Bays
- **Supports the following disk bay configurations, optional rear bay occupies riser card 1 location:**
  - **12x 3.5" HS SATA/SAS, 8x 3.5" HS SAS**
  - **24x 2.5" HS SAS, 24x 2.5" HS SAS + 4x 2.5" AnyBay**
  - **8x 2.5" HS SAS + 16x 2.5" U2**
  - **24x U.2**
  - **16x 2.5" HS SATA/SAS + 4x 2.5" AnyBay**
  - **8x 2.5" HS SAS + 8x 2.5" AnyBay**
  - **24x 2.5" HS SATA/SAS + 12x 2.5" AnyBay**
  - **20x U.2**
  - **24x 2.5" HS SATA/SAS + 4x 2.5" AnyBay, 8x 2.5" HS SAS + 4x 2.5" AnyBay**

#### Disk drive bays
- **For 3.5" bay (3.5" disks or 2.5" disks with 3.5" tray)**
  - **3.5" HDD, SATA6Gbps**
  - **2.5" SSD, SAS24Gbps**
  - **NVMe SSD, AnyBay**

- **For 2.5" bay**
  - **3.5" HDD, SATA6Gbps**
  - **2.5" SSD, SAS24Gbps**
  - **NVMe SSD, AnyBay, PCIe 3.0 x4, AHCI/RAID, NVMe SSD**

#### Power supply
- **Up to three redundant hot-swap 550W/750W/1100W/1600W 80 PLUS Platinum qualified AC power supplies.**
- **Up to two redundant hot-swap 750W Titanium qualified AC power supplies.**

#### Memory protection
- **ECC, memory mirroring, and memory sparing**

#### Environmental
- **Energy Star Server 2.1 certified.**

#### Expansion slots
- **Supports one of the following for riser card 1:**
  - Option 1: PCIe 3.0 x8/x8/x8 (slot 1-3), Full height, full length
  - Option 2: PCIe 3.0 x16/x8 (slot 1 and 3), Full height, full length for x16, Full height, half length for x8
  - Option 3: PCIe 3.0 x8/x8/x8 ML2 (slot 1-3), Full height, half length
  - Option 4: PCIe 3.0 x16 ML2 (slot 1 and 3), Full height, full length for x16, Full height, half length for x8

#### Operating systems supported
- **Microsoft Windows Server 2012/2016 R2, Red Hat Enterprise Linux 7.4/7.3/6.9, SUSE Linux Enterprise Server 12 SP3/12 SP2/11 SP4, VMware ESXi 6.5U1/6.5/6.0 U1**

#### Systems management
- **XClarity Controller Standard, optional upgrades to Advanced or Enterprise are available.**
- **Energy Manager, XClarity Administrator, Lenovo Capacity Planner.**

#### Network interfaces
- **One dedicated management port. One LOM slot for customized LOM with up to four RJ-45 or SFP+ ports.**
- **No internal optical bay. Optional USB DVD±RW drive.**

#### Security features
- **Power-on and admin password. Trusted Platform Module, TCG 1.2 compliant, upgrade to 2.0 via UEFI setting. Optional TCM in China only. Optional lockable security bezel**

#### Cooling
- **Five fans (4+1) for single processor model, six fans (5+1) for dual processor model**

#### Front ports
- **One XClarity Controller USB connector, one USB 3.0, one optional VGA**

#### Rear ports
- **One VGA, two USB 3.0, one XClarity Controller network connector, Optional COM port**

---

**Lenovo, April 2019**
ThinkSystem ST250 Platform Specifications

Product Specifications Reference (PSREF)

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<th>Specification</th>
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<td>Form factor</td>
<td>Tower or 4U rack with optional rack mount kit</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Height: 430 mm (16.93 in), width: 175 mm (6.89 in), depth: 565.7 mm (22.27 in)</td>
</tr>
<tr>
<td>Weight</td>
<td>Maximum configuration: 51.94 lb (23.56 kg)</td>
</tr>
<tr>
<td>Processor</td>
<td>Up to one Intel Xeon E family processor, up to 95W, up to 6 cores at 3.8GHz, up to 12MB cache, up to DDR4-2666 memory speed. Or up to one 8th Intel Core i3 processor, up to 91W, up to 4 cores at 4.0GHz, up to 8MB cache, up to DDR4-2400 memory speed. Or up to one Intel Pentium Gold processor, up to 54W, 2 cores at 3.9GHz, 4MB cache, DDR4-2400 memory speed</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel C246 Platform Controller Hub</td>
</tr>
<tr>
<td>Memory</td>
<td>4 DIMM sockets with 2 channels, 2 DIMMs per channel. UDIMM, DDR4-2666.</td>
</tr>
<tr>
<td>Memory capacity</td>
<td>64GB with 4x 16GB UDIMMs</td>
</tr>
<tr>
<td>Memory protection</td>
<td>Supports the following RAID/HBA adapters:</td>
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<tr>
<td>Storage controllers</td>
<td>Supports 4 or 8 front 3.5&quot; SATA simple-swap bays. Or 4 or 8 front 3.5&quot; SATA/SAS HS bays. Or 8 or 16 front 2.5&quot; SATA/SAS HS bays. Or 4x 3.5&quot; plus 8x 2.5&quot; hybrid SATA/SAS HS bays. Optional one internal M.2 SSD for boot, consumes one onboard SATA port</td>
</tr>
<tr>
<td>Disk drive bays</td>
<td>Supports the following RAID/HBA adapters:</td>
</tr>
<tr>
<td>Disk support</td>
<td>Supports the following RAID/HBA adapters:</td>
</tr>
<tr>
<td>Optical</td>
<td>Two 5.25&quot; bays for half-height optical, LTO-7 SAS or RDX USB 3.0 tape drive. Up to two optical or one tape drive</td>
</tr>
<tr>
<td>Network interfaces</td>
<td>Two onboard GbE port via integrated gigabit ethernet Broadcom BCM5720 plus one dedicated management port. Optional PCIe ethernet adapters are available</td>
</tr>
<tr>
<td>Security features</td>
<td>Power-on and admin password, Trusted Platform Module, TCG 1.2 or 2.0 compliant, Optional TCM in China only. Optional chassis intrusion switch, Kensington lock, and pad lock</td>
</tr>
<tr>
<td>Operating systems supported</td>
<td>Microsoft Windows Server 2019/2016/2012 R2. Red Hat Enterprise Linux 7.5. SUSE Linux Enterprise Server 12 SP3. VMware vSphere (ESXi) 6.7/6.5 U2</td>
</tr>
<tr>
<td>Systems management</td>
<td>XClarity Controller Standard, optional upgrades to Advanced or Enterprise are available. Energy Manager, XClarity Administrator. LEDs on front panel show the status of power, ID, network, simple-swap disks, and system error</td>
</tr>
<tr>
<td>GPU support</td>
<td>Up to one optional GPU, NVIDIA Quadro P620 or Quadro P2000</td>
</tr>
<tr>
<td>Base warranty</td>
<td>MT 7Y45: 3-year limited onsite service with 9x5/9x5</td>
</tr>
</tbody>
</table>
| Power supply | Supports one of the following PSU: 
- One fixed power supply, 250W. 80 PLUS Platinum certified. 
- Up to two redundant hot-swap power supplies, 550W each. 80 PLUS Platinum certified |

Lenovo, November 2017
## ThinkSystem ST50 Platform Specifications

### Components Specification

<table>
<thead>
<tr>
<th>Form factor</th>
<th>Tower or 4U rack with optional rack mount kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>Height: 375 mm (14.76 in), width: 175 mm (6.89 in), depth: 407 mm (16.0 in)</td>
</tr>
<tr>
<td>Weight</td>
<td>Maximum configuration: 24.7 lb (11.2 kg)</td>
</tr>
</tbody>
</table>

**Processor**
- Up to one Intel Xeon E family processor, up to 95W, up to 6 cores at 3.8GHz, up to 12MB cache, up to DDR4-2666 memory speed.
- Or up to one 8th Intel Core i3 processor, up to 91W, up to 4 cores at 4.0GHz, up to 8MB cache, up to DDR4-2400 memory speed.
- Or up to one Intel Pentium Gold processor, up to 54W, 2 cores at 3.9GHz, 4MB cache, DDR4-2400 memory speed.
- Or up to one Intel Celeron processor, up to 54W, 2 cores at 3.2GHz, 2MB cache, DDR4-2400 memory speed.

**Chipset**
- Intel C246 Platform Controller Hub

**Memory**
- 4 DIMM sockets with 2 channels, 2 DIMMs per channel. UDIMM. DDR4-2666.
- None-ECU UDIMMs are supported in China only
- 64GB with 4x 16GB UDIMMs, both ECC and Non-ECC

**Memory protection**
- ECC

**Storage controllers**
- Supports the following RAID/HBA adapters:
  - RAID adapter: Onboard SATA
  - Interface: SATA/SAS
  - Drive type: 0/1/10/5
  - RAID levels: 5/10/50
  - JBOD: Yes
  - None
  - Cache: None
  - None
  - Cache protection: None
  - FastPath: None

**Expansion slots**
- Supports three PCIe 3.0 slots as following:
  - Slot 1 PCIe 3.0 x16, full height, half length, links to CPU
  - Slot 2 PCIe 3.0 x1, full height, half length, links to PCH
  - Slot 3 PCIe 3.0 x16 (negotiable link width x4), full height, half length, links to PCH

**Environmental specification**
**Components**

- **Form factor**: Tower or 4U rack
- **Dimensions**: Without feet stands and security door: Height: 425.5 mm (16.8 in), Width: 175.8 mm (6.92 in), Depth: 866.4 mm (26.24 in)
- **Weight**: Maximum configuration: 81.35 lb (36.9 kg)
- **Processor**: Up to two 125W Gen 1 or Gen 2 Intel Xeon Scalable family processors, Bronze, Silver, Gold, or Platinum. Up to 20 cores at 2.0GHz, up to 3.8GHz with 4 cores. Two processors are connected with twoUPI (Ultra Path Interconnect) links up to 10.4GT/s.
- **Chipset**: Intel C621 Platform Controller Hub
- **Memory**: Up to 12 DIMM sockets. Each processor supports up to 6 DIMM sockets with 6 channels. DDR4-2933 or DDR4-2666, RDIMMs
- **Memory capacity**: Up to 768GB with 12 x 64 GB DIMMs and two processors
- **Memory protection**: ECC, memory mirroring, and memory sparing

**Storage controllers**

- **RAID adapter**: Supports the following RAID/HBA adapters:
  - Supports RAID levels 0, 1, 5, 6, 10, 50, 60, and Flash backup.
  - RAID for SSD/SAS bays:
    - 6Gbps SATA (SATA)/SAS (SATA/SAS)
    - 1/1/1/5
    - Flash (optional)
  - RAID for HDD bays:
    - 12Gbps SAS (SATA/SAS)
    - 1/1/1/5
    - Flash (optional)

**Environmental**

- **Temperature**:
  - Operating: A4: 5°C to 45°C (41°F to 113°F)
  - Non-operating: A2: 12°C to 30°C (50°F to 86°F)
- **Humidity**:
  - Operating: 8% - 95% (non-condensing)
  - Non-operating: 5% - 95% (non-condensing)
- **Rear ports**:
  - One VGA, two USB 3.0, four USB 2.0, two ethernet (RJ-45), one XClarity Controller network connector, Optional COM port
- **Environmental certification**:
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Warranty: For a copy of applicable warranties, write to: Lenovo Warranty Information, 1009 Think Place, Morrisville, NC, 27560. Lenovo makes no representation or warranty regarding third party products or services. The Lenovo Limited Warranty applies only to Lenovo hardware products purchased for your own use, and does not transfer upon resale.

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

Lenovo Services:

**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.


**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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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.

August, 2018 - Version 528

Additions in this update

► New product(s)
  ThinkVision X1 (2nd Gen) announced July 2018
  ThinkVision P32u announced July 2018
  ThinkVision T27i announced July 2018

► New model(s)
  None

► Others
  None

Withdrawals in this update

► Withdrawn product(s)
  None
## Lenovo ThinkVision E1922s Wide

### Features
- Widescreen 18.5-inch monitor
- Supports HD 1366x768 resolution
- Supports VESA mount (100mm)
- Mercury free panel and arsenic free glass
- Kensington lock slot ready for enhanced security
- Support Lenovo Tiny PC via VESA mount
- Supports optional soundbar
- Microsoft® Windows® 7 certified
- Microsoft Windows 8 / Windows 8.1 certified

### Product Specifications Reference (PSREF)

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<th>Name</th>
<th>E1922s Wide Flat Panel Monitor</th>
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<td>Case color</td>
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<tr>
<td>Type-model</td>
<td>60G2AA6US / 60G2AAT6EU</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, twisted nematic (TN), White LED backlight</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>18.5&quot; (470mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>16.1&quot; x 9.1&quot; / 409.8mm x 230.4mm</td>
</tr>
<tr>
<td>Native resolution</td>
<td>1366x768</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.3mm</td>
</tr>
<tr>
<td>Dot/Pixel per Inch</td>
<td>85 dpi</td>
</tr>
<tr>
<td>Brightness</td>
<td>200 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>600:1 (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>5ms (typical)</td>
</tr>
<tr>
<td>Color gamut</td>
<td>72%</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>180° (+/- 90°) horizontal, 100° (+/- 50°) vertical</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt adjustable stand</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Sides: 0.73&quot; (18.5mm)</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>341.5mm H x 448.4mm W x 167.2mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>13.7 watts typical, 17 watts maximum, &lt;0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
</tr>
<tr>
<td>Weight</td>
<td>6.03 lb; 2.74 kg</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>Available date</td>
<td>March 2014</td>
</tr>
</tbody>
</table>

| VESA-compliant | VESA DPMS-compliant |
| Power management | ENERGY STAR® 7.0 |
| Ergonomics | ISO 9241-307 |
| Emission standards | FCC Class B |
| Environmental | TCO (TCO Displays 7.0), WEEE, RoHS, EPEAT® Gold rating |

### Preset resolutions
- VGA: 640x480, 640x480, 720x400
- SVGA: 800x600, 832x624
- XGA: 1024x768, 1152x864
- SXGA: 1280x1024
- WXGA: 1366x768

### Presets / user settings
- Standard presets: 15
- User settings: 16

### Viewing adjustments
- Tilt: 20° backward, -5° forward

### Rotating screen
- None

### On screen display
- Direct access (control buttons on front) for automatic image setup and adjustment for brightness

### Control features
- None

### Multiple input
- VGA 15-pin D-shell, analog, blue

### Signal cables
- Detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter

### Mounting features
- Wall or desk mounting using theExtend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)

### Security
- Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

### Ship group
- Monitor with stand, 1.8 meter analog signal cable, 1.8 meter black power cord

### Limited Warranty

### Accessories
- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
### Lenovo ThinkVision E2054 Wide Monitor

#### Name
E2054 Wide Flat Panel Monitor

#### Case color
Raven black

#### Type-model
60DFAAR1US / 60DFAAT1EU

#### Viewable image size
19.5" (494mm) diagonal

#### Max view area (W x H)
16.48" x 10.33" / 418.6mm x 262.4mm

#### Native resolution
1440x900

#### Aspect ratio
16:10

#### Pixel pitch (mm)
0.097mm x 0.292mm

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

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

#### Pixel response time
7ms (typical)

#### Color gamut
72%

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

#### Stand
Tilt adjustable stand

#### Bezel width
Top: 0.71" (18.0mm)
Bottom: 0.70" (17.9mm)
Sides: 1.02" (26.0mm)

#### Dimensions (HxWxD)
14.65" H x 17.95" W x 7.41" D:
372.0mm H x 456.0mm W x 188.3mm D

#### Power supply
16 watts typical, 20 watts maximum,
<0.5 watts standby/suspend, universal,
integrated (no external brick-like power supply)

#### Weight
6.17 lb; 2.8 kg

#### Limited warranty
3 year (includes backlight)

#### Available date
November 2015

#### VESA-compliant
VESDPMS-compliant

#### Power management
ENERGY STAR® 6.0

#### Ergonomics
ISO 9241-307

#### Emission standards
FCC Class B

#### Environmental
TCO (TCO Displays 6.0), WEEE, RoHS,
EPEAT™ Silver rating

#### Preset resolutions
- VGA: 640x480, 720x400
- SVGA: 800x600
- XGA: 1024x768
- SXGA: 1280x768, 1280x1024
- WXGA: 1366x768
- WXGA+: 1440x900

#### Presets / user settings
- Standard presets: 18
- user settings: 10

#### Viewing adjustments
- Tilt: 22° backward, -5° forward

#### Rotating screen
None

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

#### Control features
Direct access (control buttons on front) for automatic image setup and adjustment for brightness

#### Multiple input
None

#### Monitor connectors
- VGA 15-pin D-shell, analog, blue

#### Signal cables
- detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter

#### Mounting features
- Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPLMI® (100mm mount)
- Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

#### Ship group
Monitor with stand, 1.8 meter analog signal cable, 1.8 meter black power cord

---

### Limited Warranty

### Accessories
| Kensington MicroSaver Cable Lock | 73P2582  |
| Kensington Twin Head Cable Lock | 45K1620  |

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

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Lenovo  
November 2015
### Lenovo ThinkVision LT1913p Square Monitor

**Name**: LT1913p Square Flat Panel Monitor  
**Case color**: Black  
**Type-model**: 60FBHAR1US / 60FBHAT1EU  
**Panel**: TFT-LCD, In-Plane Switching (IPS), White LED backlight  
**Viewable image size**: 19.0" (480.0mm) diagonal  
**Max view area (W x H)**: 14.76" x 11.80" (374.7mm x 299.8mm)  
**Optimum resolution**: 1280x1024  
**Max pixel rate**: 205MHz (VGA), 165MHz (DVI)  
**Aspect ratio**: 5:4  
**Pixel pitch (mm)**: 0.0976 (H) x 0.2928 (V) mm  
**Dot/Pixel per Inch**: 86.8 dpi  
**Brightness**: 250 nits or cd/m² (typical)  
**Contrast ratio**: 1000:1 (typical)  
**Pixel response time**: 7ms (typical)  
**Color gamut**: 72%  
**Viewing angle at 10:1 CR**: 72° horizontal, 72° vertical  
**Stand**: Tilt, swivel, pivot, and height adjustable stand  
**Bezel width**: Sides: 0.68" (17.4mm); top: 0.68" (17.4mm); bottom: 0.68" (17.4mm)  
**Dimensions (HxWxD)**: 14.63" H x 16.18" W x 10.40" D; 371.5mm H x 411.0mm W x 264.2mm D  
**Power supply**: 24 watts typical, 27 watts maximum, <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)  
**Weight**: 10.69 lb; 4.85kg  
**Limited warranty**: 3 year (includes backlight)  
**Available date**: April 2015  
**VESA-compliant**: VESA DDC2B/CI, EDID 1.3  
**Power management**: ENERGY STAR® 7.0  
**Ergonomics**: ISO 9241-307  
**Emission standards**: FCC Class B  
**Environmental**: TCO Displays 7.0, TCO Certified Edge 1.1, WEEE, RoHS, EPEAT™ Gold rating, ULE Gold  
**Presets / user settings**: Standard presets: 20; user settings: 20  
**Viewing adjustments**: Tilt: 30° back, -5° forward; lift: 4.3" (110mm); swivel: +/- 45°  
**Rotating screen**: Screen pivots 90 degrees from landscape to portrait  
**On screen display**: On screen display with digital user controls (8 languages)  
**Control features**: Direct access (buttons on front) for automatic image setup, input switch, and brightness  
**Multiple input**: Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)  
**Monitor connectors**: (1) VGA 15-pin D-shell, analog, blue; (2) Digital Visual Interface (DVI-D), digital, white, HDCP-compliant  
**Signal cables**: (1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter; (2) detachable, DVI-D at each end, digital, 1.8 meter  
**Mounting features**: Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPM® (100mm mount)  
**Security**: Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)  
**Ship group**: Monitor, attached stand, Setup poster, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DVI-D cable, 1.8 meter black power cord

#### Limited Warranty

#### Accessories
- Kensington MicroSaver Cable Lock: 73P2582  
- Kensington Twin Head Cable Lock: 45K1620  
- Lenovo Security Cable Lock: 57Y4303  
- Lenovo Easy Reach Monitor Stand: 59Y9258

See details at [www.lenovo.com/support/monitoraccessories](www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](www.lenovo.com/thinkvision)

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**Features**
- 19-inch Square IPS LED backlit panel  
- Supports 1280x1024 resolution  
- Supports ThinkCentre Tiny Clamp Bracket  
- Mercury and arsenic free glass  
- Low Halogen  
- Recycled content in plastic material  
- Supports optional soundbar  
- Microsoft® Windows® 7 certified  
- Microsoft Windows 8 / Windows 8.1 certified  
- Microsoft Windows 10 certified
**Lenovo ThinkVision T1714**

### Name
**T1714 Square Flat Panel Monitor**

### Case color
Black

### Type-model
60FDHAR1US / 60FDHAT1EU

### Panel
TFT-LCD, twisted nematic (TN), White LED backlight

### Viewable image size
17.0" (432mm) diagonal

### Max view area (W x H)
13.3" x 10.6" (337.9mm x 270.3mm)

### Optimum resolution
1280x1024

### Aspect ratio
5:4

### Pixel pitch (mm)
0.264mm

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

### Contrast ratio
1000:1 (typical)

### Pixel response time
5ms (typical)

### Color gamut
72%

### Viewing angle at 10:1 CR
170° (+/- 85°) horizontal, 160° (+/- 80°) vertical

### Stand
Tilt stand

### Bezels width
Sides: 0.69" (17.5mm)

### Dimensions (HxWxD, including stand)
14.72" H x 14.74" W x 7.87" D; 373.9mm H x 374.5mm W x 200mm D

### Power supply
14.0 watts typical, 18.0 watts maximum, <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)

### Weight
5.75 lb; 2.61kg

### Limited warranty
3 year (includes backlight)

### Available date
September 2015

### VESA-compliant
VESA DDC2B/Ci

### Power management
ENERGY STAR® 7.0

### Ergonomics
ISO 9241-307

### Emission standards
FCC Class B

### Environmental
TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating

### Preset resolutions
- VGA: 640x350, 640x480, 720x400
- SVGA: 800x600
- XGA: 1024x768, 1152x864,
- SXGA: 1280x800, 1280x1024

### Standards / user settings
- Standard presets: 17;
- user settings: 17

### Viewing adjustments
Tilt: 22° back, -5° forward

### Rotating screen
None

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

### Control features
Direct access (buttons on front) for automatic image setup and brightness

### Multiple input
Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

### Monitor connectors
1. VGA 15-pin D-shell, analog, blue
2. Digital Visual Interface (DVI-D), digital, white, HDCP-compliant

### Signal cables
1. detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter
2. detachable, DVI-D at each end, digital, 1.8 meter

### Mounting features
Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)

### Security
Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

### Ship group
Monitor and stand, Setup poster, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DVI-D cable, 1.8 meter black power cord

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**Features**

- 17-inch Square LCD monitor
- Supports SXGA 1280x1024 resolution
- Includes dual input connection for attachment to two systems concurrently (analog and digital)
- Mercury Arsenic free glass
- Supports optional soundbar
- Microsoft® Windows® 7 certified
- Microsoft Windows 8 certified
- Microsoft Windows 8.1 certified
- Microsoft Windows 10 certified

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**Limited Warranty**


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**Accessories**

- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620
- Lenovo Easy Reach Monitor Stand 55Y9258

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
<table>
<thead>
<tr>
<th>Name</th>
<th>T1714p Square Flat Panel Monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case color</td>
<td>Black</td>
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<tr>
<td>Type-model</td>
<td>60FELAR1US / 60FELAT1EU</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, twisted nematic (TN), White LED backlight</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>17.0&quot; (432mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>13.3&quot; x 10.6&quot; (337.9mm x 270.3mm)</td>
</tr>
<tr>
<td>Optimum resolution</td>
<td>1280x1024</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>5:4</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.264mm</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>5ms (typical)</td>
</tr>
<tr>
<td>Color gamut</td>
<td>72%</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>170° (+/- 85°) horizontal, 160° (+/- 80°) vertical</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt height adjustable stand</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Sides: 0.69&quot; (17.5mm)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>17.63&quot; H x 14.74&quot; W x 9.61&quot; D; 447.9mm H x 374.5mm W x 244.2mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>14.0 watts typical, 18.0 watts maximum, &lt;0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
</tr>
<tr>
<td>Weight</td>
<td>8.71 lb; 3.95kg</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>Available date</td>
<td>September 2015</td>
</tr>
</tbody>
</table>

**VESA-compliant**

- VESA DDC2B/CI

**Power management**

- ENERGY STAR® 7.0

**Ergonomics**

- ISO 9241-307

**Emission standards**

- FCC Class B

**Environmental**

- TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating

**Preset resolutions**

- VGA: 640x350, 640x480, 720x400
- SVGA: 800x600
- XGA: 1024x768, 1152x864
- SXGA: 1280x800, 1280x1024

**Presets / user settings**

- Standard presets: 22; user settings: 22

**Viewing adjustments**

- Tilt: 22° back, -5° forward; lift: 4.3" (110mm)

**Rotating screen**

- None

**On screen display**

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

**Multiple input**

- Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

**Monitor connectors**

- (1) VGA 15-pin D-shell, analog, blue
- (2) Digital Visual Interface (DVI-D), digital, white, HDCP-compliant
- (3) DisplayPort, digital, black, HDCP-compliant

**Signal cables**

- (1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter
- (2) detachable, DVI-D at each end, digital, 1.8 meter

**Mounting features**

- Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)

**Security**

- Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**

- Monitor and stand, Setup poster, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DVI-D cable, 1.8 meter black power cord

**Features**

- 17-inch Square LCD monitor
- Supports SXGA 1280x1024 resolution
- Includes dual input connection for attachment to two systems concurrently (analog and digital)
- Mercury Arsenic free glass
- Supports Lenovo Tiny PC and 3rd party thin client via optional Lenovo bracket
- Supports optional soundbar
- Microsoft Windows 7 certified
- Microsoft Windows 8 certified
- Microsoft Windows 8.1 certified
- Microsoft Windows 10 certified

**Preset resolutions**

- VGA: 640x350, 640x480, 720x400
- SVGA: 800x600
- XGA: 1024x768, 1152x864
- SXGA: 1280x800, 1280x1024

**Presets / user settings**

- Standard presets: 22; user settings: 22

**Viewing adjustments**

- Tilt: 22° back, -5° forward; lift: 4.3" (110mm)

**Rotating screen**

- None

**On screen display**

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

**Multiple input**

- Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

**Monitor connectors**

- (1) VGA 15-pin D-shell, analog, blue
- (2) Digital Visual Interface (DVI-D), digital, white, HDCP-compliant
- (3) DisplayPort, digital, black, HDCP-compliant

**Signal cables**

- (1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter
- (2) detachable, DVI-D at each end, digital, 1.8 meter

**Mounting features**

- Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)

**Security**

- Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**

- Monitor and stand, Setup poster, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DVI-D cable, 1.8 meter black power cord

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**Limited Warranty**


**Accessories**

- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620
- Lenovo Easy Reach Monitor Stand 55Y9258

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
# Lenovo ThinkVision T2054p Wide

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name</strong></td>
<td>T2054p Wide Flat Panel Monitor</td>
</tr>
<tr>
<td><strong>Bezel color</strong></td>
<td>Raven black</td>
</tr>
<tr>
<td><strong>Type-model</strong></td>
<td>60G1MAR2US / 60G1MAT2EU</td>
</tr>
<tr>
<td><strong>Panel</strong></td>
<td>TFT-LCD, In-Plane Switching (IPS), White LED backlight</td>
</tr>
<tr>
<td><strong>Viewable image size</strong></td>
<td>19.5&quot; (495mm) diagonal</td>
</tr>
<tr>
<td><strong>Max view area (W x H)</strong></td>
<td>16.48&quot; x 10.33&quot; (418.6mm x 262.4mm)</td>
</tr>
<tr>
<td><strong>Native resolution</strong></td>
<td>1440x900</td>
</tr>
<tr>
<td><strong>Aspect ratio</strong></td>
<td>16:10</td>
</tr>
<tr>
<td><strong>Pixel pitch (mm)</strong></td>
<td>0.2915 x 0.2915 mm</td>
</tr>
<tr>
<td><strong>Dot/Pixel per Inch</strong></td>
<td>87 dpi</td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>250 nits or cd/m² (typical)</td>
</tr>
<tr>
<td><strong>Contrast ratio</strong></td>
<td>1000:1 (typical)</td>
</tr>
<tr>
<td><strong>Pixel response time</strong></td>
<td>7ms (typical)</td>
</tr>
<tr>
<td><strong>Color gamut</strong></td>
<td>72%</td>
</tr>
<tr>
<td><strong>Viewing angle at 10:1 CR</strong></td>
<td>178° (+/- 89°) horizontal, 178° (+/- 89°) vertical</td>
</tr>
<tr>
<td><strong>Stand</strong></td>
<td>Tilt, swivel, and height adjustable stand</td>
</tr>
<tr>
<td><strong>Bezel width</strong></td>
<td>Sides: 0.67&quot; (17.0mm)</td>
</tr>
<tr>
<td><strong>Dimensions (HxWxD)</strong></td>
<td>13.62&quot; H x 17.88&quot; W x 9.55&quot; D</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>345.9999 mm H x 454.29mm W x 242.67mm D</td>
</tr>
<tr>
<td><strong>Power management</strong></td>
<td>14.3 watts typical, 21 watts maximum,</td>
</tr>
<tr>
<td><strong>Ergonomics</strong></td>
<td>&lt;0.3 watts standby/suspend, universal, integrated</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td>(no external brick-like power supply)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>8.16 lb; 3.70 kg</td>
</tr>
<tr>
<td><strong>Limited warranty</strong></td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td><strong>Available date</strong></td>
<td>September 2015</td>
</tr>
<tr>
<td><strong>VESA-compliant</strong></td>
<td>VESA DDC2/Ci</td>
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<tr>
<td><strong>Power management</strong></td>
<td>ENERGY STAR® qualified</td>
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<tr>
<td><strong>Emission standards</strong></td>
<td>ISO 9241-307</td>
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<tr>
<td><strong>Energy Star</strong></td>
<td>TCO Class B</td>
</tr>
<tr>
<td><strong>Energy Star</strong></td>
<td>TCO Displays 7.0, TCO Certified Edge 2.0, WEEE,</td>
</tr>
<tr>
<td><strong>RoHS, EPEAT™ Gold rating</strong></td>
<td>RoHS, EPEAT™ Gold rating</td>
</tr>
<tr>
<td><strong>Preset resolutions</strong></td>
<td>VGA: 640x480, 720x400, 720x576</td>
</tr>
<tr>
<td><strong>Presets / user settings</strong></td>
<td>SVGA: 800x600</td>
</tr>
<tr>
<td><strong>On screen display</strong></td>
<td>XGA: 1024x768, 1152x864</td>
</tr>
<tr>
<td><strong>Multiple input</strong></td>
<td>SXGA: 1280x800, 1280x1024</td>
</tr>
<tr>
<td><strong>XGA: 1366x768</strong></td>
<td>WXGA: 1440x900</td>
</tr>
<tr>
<td><strong>SXGA:</strong></td>
<td>WXGA+: 1440x900</td>
</tr>
<tr>
<td><strong>Preset resolutions</strong></td>
<td>Standard presets: 22</td>
</tr>
<tr>
<td><strong>Multiple input</strong></td>
<td>user settings: 16</td>
</tr>
<tr>
<td><strong>Viewing adjustments</strong></td>
<td>Tilt: 22° backward, -5° forward; left: 4.3° (110mm); swivel: +/-45°; detachable stand</td>
</tr>
<tr>
<td><strong>Rotating screen</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>On screen display</strong></td>
<td>On screen display with digital user controls (8 languages)</td>
</tr>
<tr>
<td><strong>Control features</strong></td>
<td>Direct access (buttons on front) for automatic image setup, dual input and brightness</td>
</tr>
<tr>
<td><strong>Multiple input</strong></td>
<td>Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)</td>
</tr>
<tr>
<td><strong>Monitor connectors</strong></td>
<td>(1) VGA 15-pin D-shell, analog, blue</td>
</tr>
<tr>
<td><strong>Signal cables</strong></td>
<td>(2) HDMI (1.4), digital, HDCP-compliant</td>
</tr>
<tr>
<td><strong>Mounting features</strong></td>
<td>(3) DisplayPort, digital, black, HDCP-compliant</td>
</tr>
<tr>
<td><strong>Multiple input</strong></td>
<td>(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter</td>
</tr>
<tr>
<td><strong>Mounting features</strong></td>
<td>(2) detachable, DisplayPort at each end, digital, 1.8 meter</td>
</tr>
<tr>
<td><strong>Security</strong></td>
<td>Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount</td>
</tr>
<tr>
<td><strong>Ship group</strong></td>
<td>Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)</td>
</tr>
<tr>
<td><strong>Limited Warranty</strong></td>
<td>Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter black power cord</td>
</tr>
</tbody>
</table>

## Features
- Widescreen 19.5-inch monitor
- Supports 1440x900 resolution
- Supports ThinkCentre Tiny Clamp Bracket
- Includes dual input connection for attachment to two systems concurrently (analog and digital)
- EPEAT Gold certified
- Supports optional soundbar
- Microsoft® Windows® 7 certified
- Microsoft Windows 8 / Windows 8.1 certified
- Microsoft Windows 10 certified

## Accessories
- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
**Lenovo ThinkVision E21**

**Name**
E21 Wide Flat Panel Monitor

**Bezel color**
Black

**Type-model**
61B9JAR1US / 61B9JAT1EU

**Panel**
TFT-LCD, twisted nematic (TN), White LED backlight

**Viewable image size**
20.7" (525.78mm) diagonal

**Max view area (W x H)**
18.03" x 10.14" (457.92mm x 257.58mm)

**Native resolution**
1920x1080

**Aspect ratio**
16:9

**Pixel pitch (mm)**
0.2385 x 0.2385 mm

**Dot/Pixel per Inch**
106 dpi

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

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

**Pixel response time**
5ms (typical)

**Color gamut**
72%

**Viewing angle at 10:1 CR**
170° (+/- 85°) horizontal, 160° (+/- 80°) vertical

**Stand**
Tilt adjustable stand

**Bezel width**
Sides: 0.6" (15.3mm)

**Dimensions (HxWxD)**
14.6" H x 19.31" W x 8.07" D; 370.9mm H x 490.5mm W x 204.9mm D

**Power supply**
18 watts typical, 23 watts maximum, <0.3 watts standby/suspend, universal, integrated (no external brick-like power supply)

**Weight**
5.82 lb; 2.64 kg

**Limited warranty**
3 year (includes backlight)

**Available date**
August 2017

**VESA-compliant**
Yes

**Power management**
ENERGY STAR® qualified

**Ergonomics**
ISO 9241-307

**Emission standards**
FCC Class B

**Environmental**
TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating

**Presets resolutions**
- VGA: 640x350, 640x480, 720x400
- SVGA: 800x600, 832x624
- XGA: 1024x768, 1152x864
- SXGA: 1280x1024
- WXGA+: 1440x900
- WSXGA+: 1680x1050
- Full HD: 1920x1080

**Preset display modes**
Standard presets: 22

**Viewing adjustments**
Tilt: 22° back, -5° forward

**Rotating screen**
None

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

**Control features**
Direct access (buttons on front) for power, menu, input source select and brightness

**USB hub**
None

**Multiple input**
Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

**Monitor connectors**
- (1) VGA 15-pin D-shell, analog, blue
- (2) DisplayPort (1.2), digital, black, HDCP-compliant

**Signal cables**
(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter

**Mounting features**
Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount

**Security**
Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**
Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter black power cord

---

**Limited Warranty**

**Accessories**
- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](www.lenovo.com/thinkvision)

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**Features**
- Widescreen 20.7-inch monitor
- Supports 1920x1080 resolution
- Supports ThinkCentre Tiny Clamp Bracket
- Supports optional soundbar
- EPEAT Gold certified
- Low Blue Light certification
- Microsoft® Windows® 7 certified
- Microsoft Windows 10 certified

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**Lenovo**
August 2017
## Lenovo ThinkVision E24

**Features**
- Widescreen 23.8-inch monitor
- Supports 1920x1080 resolution
- Supports ThinkCentre Tiny VESA mount
- Supports optional soundbar
- Includes dual input connection for attachment to two systems concurrently
- EPEAT Gold certified
- Microsoft® Windows® 7 certified
- Microsoft Windows 10 certified

### Lenovo ThinkVision E24 Wide Monitor

<table>
<thead>
<tr>
<th>Name</th>
<th>E24 Wide Flat Panel Monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bezel color</td>
<td>Black</td>
</tr>
<tr>
<td>Type-model</td>
<td>61B7JA96US / 61B7JAT6EU</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, In-Plane Switching (IPS), White LED backlight</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>23.8&quot; (604.7mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>20.75&quot; x 11.67&quot; (527.04mm x 296.46mm)</td>
</tr>
<tr>
<td>Native resolution</td>
<td>1920x1080</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.2745 x 0.2745 mm</td>
</tr>
<tr>
<td>Dot/Pixel per Inch</td>
<td>92.5 dpi</td>
</tr>
<tr>
<td>Brightness</td>
<td>250 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1000:1 (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>6ms (typical)</td>
</tr>
<tr>
<td>Color gamut</td>
<td>72%</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>178° (+/- 89°) horizontal, 178° (+/- 89°) vertical</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt adjustable stand</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Sides: 0.51&quot; (13mm)</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>15.9&quot; H x 21.81&quot; W x 8.07&quot; D; 403.8mm H x 554mm W x 204.9mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>18 watts typical, &lt;0.3 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
</tr>
<tr>
<td>Weight</td>
<td>8.2 lb; 3.7 kg</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>Available date</td>
<td>August 2017</td>
</tr>
</tbody>
</table>

**VESA-compliant**
- VESA DDC2B/Ci

**Power management**
- ENERGY STAR® qualified

**Emission standards**
- ISO 9241-307
- FCC Class B

**Environmental**
- TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating

**Preset resolutions**
- VGA: 640x350, 640x480, 720x400
- SVGA: 800x600, 832x624
- XGA: 1024x768, 1152x864
- SXGA: 1280x1024
- WXGA: 1366x768
- WXGA+: 1440x900, 1600x900
- WSXGA+: 1680x1050
- Full HD: 1920x1080

**Presets display modes**
- Standard presets: 24; user settings: 20

**Viewing adjustments**
- Tilt: 22° back, -5° forward

**Rotating screen**
- None

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

**Control features**
- Direct access (buttons on front) for power, menu, input source select and brightness

**USB hub**
- None

**Multiple input**
- Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)
  - (1) VGA 15-pin D-shell, analog, blue
  - (2) DisplayPort, digital, black, **HDCP-compliant**

**Signal cables**
- (1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter
- (2) detachable, DisplayPort at each end, digital, 1.8 meter

**Mounting features**
- Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount

**Security**
- Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**
- Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter black power cord

### Limited Warranty


### Accessories

- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

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**Accessories**

- Kensington MicroSaver Cable Lock
- Kensington Twin Head Cable Lock

**Limited Warranty**


See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

---

**Lenovo August 2017**
### Lenovo ThinkVision LT2423 Wide Monitor

#### Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name</strong></td>
<td>LT2423 Wide Flat Panel Monitor</td>
</tr>
<tr>
<td><strong>Case color</strong></td>
<td>Business black</td>
</tr>
<tr>
<td><strong>Type-model</strong></td>
<td>60A8KAR2US / 60A8KAT2EU</td>
</tr>
<tr>
<td><strong>Panel</strong></td>
<td>TFT-LCD, twisted nematic (TN), White LED backlight</td>
</tr>
<tr>
<td><strong>Viewable image size</strong></td>
<td>24&quot; (610mm) diagonal</td>
</tr>
<tr>
<td><strong>Max view area (W x H)</strong></td>
<td>20.9&quot; x 11.8&quot; (531.4mm x 298.9mm)</td>
</tr>
<tr>
<td><strong>Optimum resolution</strong></td>
<td>1920x1080</td>
</tr>
<tr>
<td><strong>Max pixel rate</strong></td>
<td>205MHz</td>
</tr>
<tr>
<td><strong>Aspect ratio</strong></td>
<td>16:9</td>
</tr>
<tr>
<td><strong>Pixel pitch (mm)</strong></td>
<td>0.278mm</td>
</tr>
<tr>
<td><strong>Dot/Pixel per Inch</strong></td>
<td>92 dpi</td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>250 nits or cd/m² (typical)</td>
</tr>
<tr>
<td><strong>Contrast ratio</strong></td>
<td>1000:1 (typical)</td>
</tr>
<tr>
<td><strong>Contrast ratio</strong></td>
<td>2000000:1</td>
</tr>
<tr>
<td><strong>Pixel response time</strong></td>
<td>5ms</td>
</tr>
<tr>
<td><strong>Color gamut</strong></td>
<td>72%</td>
</tr>
<tr>
<td><strong>Viewing angle at 1:1 CR</strong></td>
<td>170° horizontal, 160° vertical</td>
</tr>
<tr>
<td><strong>Stand</strong></td>
<td>Tilt stand</td>
</tr>
<tr>
<td><strong>Bezel width</strong></td>
<td>Sides: 0.67&quot; (17.0mm); top: 0.67&quot; (17.0mm); bottom: 1.02&quot; (26.0mm)</td>
</tr>
<tr>
<td><strong>Dimensions (hxWxD, excluding stand)</strong></td>
<td>13.53&quot; H x 22.33&quot; W x 1.97&quot; D;</td>
</tr>
<tr>
<td><strong>Dimensions (hxWxD, including stand)</strong></td>
<td>343.7mm H x 567.1mm W x 50.0mm D</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>21 watts typical, &lt;0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>8.30 lb; 3.76kg</td>
</tr>
<tr>
<td><strong>Limited warranty</strong></td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td><strong>Available date</strong></td>
<td>July 2013</td>
</tr>
<tr>
<td><strong>VESA-compliant</strong></td>
<td>VESA DDC2B/CI</td>
</tr>
<tr>
<td><strong>Power management</strong></td>
<td>ENERGY STAR® 6.0</td>
</tr>
<tr>
<td><strong>Ergonomics</strong></td>
<td>ISO 9241-307</td>
</tr>
<tr>
<td><strong>Emission standards</strong></td>
<td>MPR-2, FCC Class B</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td>TCO Displays 6.0, TCO Certified Edge 1.2, WEEE, RoHS, EPEAT® Gold rating, ULE Gold</td>
</tr>
<tr>
<td><strong>Preset resolutions</strong></td>
<td>VGA: 640x350, 640x480, 720x400; SVGA: 800x600, 832x624; XGA: 1024x768, 1152x864; SXGA: 1280x1024; WXGA: 1366x768; WXGA+: 1440x900, 1600x900; WSXGA+: 1680x1050; Full HD: 1920x1080</td>
</tr>
<tr>
<td><strong>Presets / user settings</strong></td>
<td>Standard presets: 24; User settings: 20</td>
</tr>
<tr>
<td><strong>Viewing adjustments</strong></td>
<td>Tilt: 22° back, -5° forward</td>
</tr>
<tr>
<td><strong>Rotating screen</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>On screen display</strong></td>
<td>On screen display with digital user controls (8 languages)</td>
</tr>
<tr>
<td><strong>Control features</strong></td>
<td>Direct access (buttons on front) for automatic image setup, input switch, and brightness</td>
</tr>
<tr>
<td><strong>Multimedia</strong></td>
<td>Integrated stereo speakers (3 watts x 2)</td>
</tr>
<tr>
<td><strong>Multiple input</strong></td>
<td>Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)</td>
</tr>
<tr>
<td><strong>Monitor connectors</strong></td>
<td>(1) VGA 15-pin D-shell, analog, blue; (2) HDMI (1.4), digital, HDCP-compliant</td>
</tr>
<tr>
<td><strong>Signal cables</strong></td>
<td>(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter</td>
</tr>
<tr>
<td><strong>Mounting features</strong></td>
<td>Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)</td>
</tr>
<tr>
<td><strong>Security</strong></td>
<td>Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)</td>
</tr>
<tr>
<td><strong>Ship group</strong></td>
<td>Monitor, attached stand, Setup poster, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter Audio cable, 1.8 meter black power cord</td>
</tr>
</tbody>
</table>

**Limited Warranty**


**Accessories**

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kensington MicroSaver Cable Lock</td>
<td>73P2582</td>
</tr>
<tr>
<td>Kensington Twin Head Cable Lock</td>
<td>45X1620</td>
</tr>
<tr>
<td>Lenovo Security Cable Lock</td>
<td>57Y4303</td>
</tr>
<tr>
<td>ThinkCentre Extend Arm</td>
<td>57Y4352</td>
</tr>
<tr>
<td>Lenovo Easy Reach Monitor Stand</td>
<td>55Y9258</td>
</tr>
</tbody>
</table>

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

Lenovo
June 2013
Lenovo ThinkVision P24h

**Name**

P24h Wide Flat Panel Monitor

**Bezel color**

Black

**Type-model**

61AEGER3US / 61AEGAT3EU

**Panel**

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

**Viewable image size**

23.8” (604.7mm) diagonal

**Max view area (W x H)**

20.74” x 11.67” (526.9mm x 296.4mm)

**Native resolution**

2560x1440

**Aspect ratio**

16:9

**Pixel pitch (mm)**

0.2058x 0.2058 mm

**Dot/Pixel per Inch**

124 dpi

**Brightness**

300 nits or cd/m² (typical)

**Contrast ratio**

1000:1 (typical)

**Pixel response time**

4ms (extreme) / 6ms (typical)

**Color gamut**

99% sRGB

**Viewing angle at 10:1 CR**

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

**Stand**

Tilt, swivel, pivot, and height adjustable stand

**Bezel width**

Sides: 0.08" (2.0mm)

**Dimensions (HxWxD)**

14.7” H x 21.26” W x 10.3” D; 373.4mm H x 540.2mm W x 261.75mm D

**Power supply**

24 watts typical, 120 watts maximum (with USB 3.0 hub), <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)

**Weight**

12.54 lb; 5.69 kg

**Limited warranty**

3 year (includes backlight)

**Available date**

April 2017

**VESA-compliant**

VESAtm DDC2B/CI

**Power management**

ENERGY STAR® qualified

**Ergonomics**

ISO 9241-307

**Emission standards**

FCC Class B

**Environmental**

TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT® Gold rating

**Preset resolutions**

VGA: 640x480, 720x400
SVGA: 800x600
XGA: 1024x768
SXGA: 1280x1024
WXGA: 1366x768
WXGA+: 1440x900
WSXGA+: 1680x1050
Full HD: 1920x1080, 1920x1200
QHD: 2560x1440

**Presets display modes**

HDMI: 22; DP: 14

**Viewing adjustments**

Tilt: 30° back, -5° forward; lift: 4.3” (110mm); swivel: +/- 45°; detachable stand

**Rotating screen**

Screen pivots 90 degrees from landscape to portrait

**On screen display**

On screen display with digital user controls (8 languages)

**Control features**

Direct access (buttons on front) for power, menu, input source select and brightness

**USB hub**

USB Hub: one USB 3.1 Type-C upstream port, four USB 3.0 Type-A downstream ports

**Multimedia**

Audio-out, optional sound bar supported

**Camera**

None

**Multiple input**

Support HDMI, DisplayPort, USB 3.1 Type-C, DisplayPort-out

**Monitor connectors**

(1) 2*HDMI (1.4), digital, HDCP-compliant
(2) DisplayPort (1.2), digital, HDCP-compliant
(3) DisplayPort-out, digital
(4) USB 3.1 Type-C

**Signal cables**

(1) USB 3.1 Type-C cable, 1.8 meter

**Mounting features**

Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount

**Security**

Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**

Monitor with stand, Safety and Warranty Information, 1.8 meter USB 3.1 Type-C cable, 1.8 meter black power cord

---

### Limited Warranty


### Accessories

- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](www.lenovo.com/thinkvision)

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Lenovo

July 2017
## Lenovo ThinkVision P24q

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name</strong></td>
<td>P24q Wide Flat Panel Monitor</td>
</tr>
<tr>
<td><strong>Case color</strong></td>
<td>Black</td>
</tr>
<tr>
<td><strong>Type-model</strong></td>
<td>61A5GAR3US / 61A5GAT3EU</td>
</tr>
<tr>
<td><strong>Panel</strong></td>
<td>TFT-LCD, IPS (In-Plane Switching), White LED backlight</td>
</tr>
<tr>
<td><strong>Viewable image size</strong></td>
<td>23.8&quot; (604.5mm) diagonal</td>
</tr>
<tr>
<td><strong>Max view area (W x H)</strong></td>
<td>20.74&quot; x 11.67&quot; (526.85mm x 296.35mm)</td>
</tr>
<tr>
<td><strong>Optimum resolution</strong></td>
<td>2560x1440</td>
</tr>
<tr>
<td><strong>Max pixel rate</strong></td>
<td>300MHz</td>
</tr>
<tr>
<td><strong>Aspect ratio</strong></td>
<td>16:9</td>
</tr>
<tr>
<td><strong>Pixel pitch (mm)</strong></td>
<td>0.2058 x 0.2058mm</td>
</tr>
<tr>
<td><strong>Dot/Pixel per Inch</strong></td>
<td>123 dpi</td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>300 nits or cd/m² (typical)</td>
</tr>
<tr>
<td><strong>Contrast ratio</strong></td>
<td>1000:1 (typical)</td>
</tr>
<tr>
<td><strong>Pixel response time</strong></td>
<td>4ms</td>
</tr>
<tr>
<td><strong>Color gamut</strong></td>
<td>99% sRGB</td>
</tr>
<tr>
<td><strong>Viewing angle at 10:1 CR</strong></td>
<td>178° horizontal, 178° vertical</td>
</tr>
<tr>
<td><strong>Stand</strong></td>
<td>Tilt, swivel, pivot, and height adjustable stand</td>
</tr>
<tr>
<td><strong>Bezel width</strong></td>
<td>Sides: 0.08&quot; (2mm)</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>14.7&quot; H x 21.26&quot; W x 10.3&quot; D;</td>
</tr>
<tr>
<td><strong>(HxWxD, including stand)</strong></td>
<td>373.4mm H x 540.2mm W x 261.75mm D</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>24 watts typical, 67 watts maximum (with USB), &lt;0.5 watts sleep/off, &lt;0.5 watts switch off integrated (no external brick-like power supply)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>12.35 lb; 5.6kg (including stand)</td>
</tr>
<tr>
<td><strong>Limited warranty</strong></td>
<td>3 year</td>
</tr>
<tr>
<td><strong>Available date</strong></td>
<td>January 2017</td>
</tr>
<tr>
<td><strong>VESA-compliant</strong></td>
<td>VESA DDC2B/CI</td>
</tr>
<tr>
<td><strong>Power management</strong></td>
<td>ENERGY STAR® 7.0</td>
</tr>
<tr>
<td><strong>Ergonomics</strong></td>
<td>ISO 9241-307</td>
</tr>
<tr>
<td><strong>Emission standards</strong></td>
<td>FCC Class B</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td>TCO Displays 7.0, RoHS, EPEAT™ Gold rating, ULE Gold</td>
</tr>
<tr>
<td><strong>Preset resolutions</strong></td>
<td>VGA: 640x480, 720x400</td>
</tr>
<tr>
<td></td>
<td>SVGA: 800x600</td>
</tr>
<tr>
<td></td>
<td>XGA: 1024x768</td>
</tr>
<tr>
<td></td>
<td>SXGA: 1280x1024</td>
</tr>
<tr>
<td></td>
<td>SXGA+ 1366x768</td>
</tr>
<tr>
<td></td>
<td>WXGA: 1440x900, 1600x900</td>
</tr>
<tr>
<td></td>
<td>WSXGA+: 1680x1050</td>
</tr>
<tr>
<td></td>
<td>Full HD: 1920x1080, 1920x1200</td>
</tr>
<tr>
<td></td>
<td>QHD: 2560x1440</td>
</tr>
<tr>
<td><strong>Presets / user settings</strong></td>
<td>Standard presets: 20; user settings: 24</td>
</tr>
<tr>
<td><strong>Viewing adjustments</strong></td>
<td>Tilt: 30° back, -5° forward; lift: 4.33&quot; (110mm); swivel: +/-45°</td>
</tr>
<tr>
<td><strong>Rotating screen</strong></td>
<td>Screen pivots 90 degrees from landscape to portrait</td>
</tr>
<tr>
<td><strong>On screen display</strong></td>
<td>On screen display with digital user controls (8 languages)</td>
</tr>
<tr>
<td><strong>Control features</strong></td>
<td>Direct access for menu, source switch, and brightness</td>
</tr>
<tr>
<td><strong>USB hub</strong></td>
<td>USB Hub: one USB 3.0 upstream port, four USB 3.0 downstream ports</td>
</tr>
<tr>
<td><strong>Multimedia</strong></td>
<td>Audio-out, optional sound bar supported</td>
</tr>
<tr>
<td><strong>Camera</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Support HDMI, DisplayPort, mini DisplayPort, DisplayPort-out</strong></td>
<td>Support HDMI, DisplayPort, mini DisplayPort, DisplayPort-out</td>
</tr>
<tr>
<td><strong>Monitor connectors</strong></td>
<td>(1) 2HDMI (1.4), digital, HDCP-compliant</td>
</tr>
<tr>
<td></td>
<td>(2) DisplayPort (1.2), digital, HDCP-compliant</td>
</tr>
<tr>
<td></td>
<td>(3) Mini DisplayPort, digital, HDCP-compliant</td>
</tr>
<tr>
<td><strong>Signal cables</strong></td>
<td>(1) detachable, mini DisplayPort to DisplayPort, digital, 1.8 meter</td>
</tr>
<tr>
<td><strong>Mounting features</strong></td>
<td>Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)</td>
</tr>
<tr>
<td><strong>Security</strong></td>
<td>Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)</td>
</tr>
<tr>
<td><strong>Ship group</strong></td>
<td>Monitor, detachable stand, Quick start and safety poster, 1.8 meter USB 3.0 cable, 1.8 meter mini DP to DP cable, 1.8 meter black power cord</td>
</tr>
</tbody>
</table>

**Limited Warranty**


**Accessories**

Kensington  MicroSaver Cable Lock  73P2582
Lenovo Twin Head Cable Lock  45K1620
Lenovo Security Cable Lock  57Y4303

See [details at www.lenovo.com/support/monitor accessories](http://www.lenovo.com/support/monitor accessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
## Lenovo ThinkVision T2224d Wide

### Name
T2224d Wide Flat Panel Monitor

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bezel color</strong></td>
<td>Black</td>
</tr>
<tr>
<td><strong>Type-model</strong></td>
<td>61B1JAR1US / 61B1JAT1EU</td>
</tr>
<tr>
<td><strong>Panel</strong></td>
<td>TFT-LCD, In-Plane Switching (IPS), White LED backlight</td>
</tr>
<tr>
<td><strong>Viewable image size</strong></td>
<td>21.5&quot; (546mm) diagonal</td>
</tr>
<tr>
<td><strong>Max view area (W x H)</strong></td>
<td>18.74&quot; x 10.54&quot; (476.1mm x 267.8mm)</td>
</tr>
<tr>
<td><strong>Native resolution</strong></td>
<td>1920x1080</td>
</tr>
<tr>
<td><strong>Aspect ratio</strong></td>
<td>16:9</td>
</tr>
<tr>
<td><strong>Pixel pitch (mm)</strong></td>
<td>0.248 x 0.248 mm</td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>250 nits or cd/m² (typical)</td>
</tr>
<tr>
<td><strong>Pixel response time</strong></td>
<td>7ms (typical); 4ms (extreme mode)</td>
</tr>
<tr>
<td><strong>Color gamut</strong></td>
<td>72%</td>
</tr>
<tr>
<td><strong>Viewing angle at 10:1 CR</strong></td>
<td>178° (+/- 89°) horizontal, 178° (+/- 89°) vertical</td>
</tr>
<tr>
<td><strong>Stand</strong></td>
<td>Tilt stand</td>
</tr>
<tr>
<td><strong>Bezel width</strong></td>
<td>0.69&quot; (17.6mm)</td>
</tr>
<tr>
<td><strong>Dimensions (HxWxD)</strong></td>
<td>15.02&quot; H x 20.19&quot; W x 8.06&quot; D; 381.4mm H x 512.9mm W x 204.9mm D</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>20 watts typical, 25 watts maximum</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>&lt;0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
</tr>
<tr>
<td><strong>Limited warranty</strong></td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td><strong>Available date</strong></td>
<td>March 2017</td>
</tr>
<tr>
<td><strong>VESA-compliant</strong></td>
<td>VESA DDC2B/CI</td>
</tr>
<tr>
<td><strong>Power management</strong></td>
<td>ENERGY STAR® qualified</td>
</tr>
<tr>
<td><strong>Ergonomics</strong></td>
<td>ISO 9241-307</td>
</tr>
<tr>
<td><strong>Emission standards</strong></td>
<td>FCC Class B</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td>TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, <strong>EPEAT</strong>TM Gold rating</td>
</tr>
<tr>
<td><strong>Preset resolutions</strong></td>
<td>VGA: 640x350, 640x480, 720x400, SVGA: 800x600, XGA: 1024x768, 1152x864, SXGA: 1280x1024, WXGA: 1280x768, 1280x800, 1366x768, WXGA+: 1440x900, WSXGA+: 1680x1050, Full HD: 1920x1080</td>
</tr>
<tr>
<td><strong>Presets / user settings</strong></td>
<td>Standard presets: 22; user settings: 22</td>
</tr>
<tr>
<td><strong>Viewing adjustments</strong></td>
<td>Tilt: 22° back, -5° forward</td>
</tr>
<tr>
<td><strong>Rotating screen</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>On screen display</strong></td>
<td>On screen display with digital user controls (8 languages)</td>
</tr>
<tr>
<td><strong>Control features</strong></td>
<td>Direct access (buttons on front) for automatic image setup, dual input and brightness</td>
</tr>
<tr>
<td><strong>USB hub</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Multiple input</strong></td>
<td>Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)</td>
</tr>
<tr>
<td><strong>Monitor connectors</strong></td>
<td>(1) VGA 15-pin D-shell, analog, blue (2) DisplayPort, digital, black, <strong>HDCP-compliant</strong></td>
</tr>
<tr>
<td><strong>Signal cables</strong></td>
<td>(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter (2) detachable, DisplayPort at each end, digital, 1.8 meter</td>
</tr>
<tr>
<td><strong>Mounting features</strong></td>
<td>Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount</td>
</tr>
<tr>
<td><strong>Security</strong></td>
<td>Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)</td>
</tr>
<tr>
<td><strong>Ship group</strong></td>
<td>Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter black power cord</td>
</tr>
</tbody>
</table>

### Features
- Widescreen 21.5-inch monitor
- Supports 1920x1080 resolution
- Supports optional soundbar
- Supports ThinkCentre Tiny via VESA back mount
- Includes dual input connection for attachment to two systems concurrently (analog and digital)
- **EPEAT** Gold certified
- Microsoft® Windows® 7 certified
- Microsoft Windows 10 certified

## Accessories
- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

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**Limited Warranty**


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Lenovo
March 2017
### Lenovo ThinkVision T2224z Wide

**Name**

T2224z Wide Flat Panel Monitor

**Bezel color**

Raven black

**Type-model**

60F5MAR6US / 60F5MAT6EU

**Panel**

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

**Viewable image size**

18.74“ * 10.54“ (476.1mm x 267.8mm)

**Max view area (W x H)**

1920x1080

**Native resolution**

1920x1080

**Aspect ratio**

16:9

**Pixel pitch (mm)**

0.248 x 0.248 mm

**Dot/Pixel per Inch**

102 dpi

**Brightness**

250 nits or cd/m² (typical)

**Contrast ratio**

1000:1 (typical)

**Pixel response time**

7ms (typical)

**Color gamut**

72%

**Viewing angle at 10:1 CR**

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

**Bezel width**

Sides: 0.69“ (17.6mm)

**Dimensions (HxWxD)**


**Power supply**

21 watts typical,

25 watts maximum (without USB 3.0 hub),

45 watts maximum (with USB 3.0 hub),

<0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)

**Weight**

10.63 lb; 4.83 kg

**Limited warranty**

3 year (includes backlight)

**Available date**

March 2015

**VESA-compliant**

VESD DDC2B/C1

**Power management**

ENERGY STAR® qualified

**Ergonomics**

ISO 9241-307

**Emission standards**

FCC Class B

**Environmental**

TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT® Gold rating

**Preset resolutions**

VGA: 640x350,640x480,720x400

SVGA: 800x600

XGA: 1024x768,1152x864

SXGA: 1280x1024

WXGA: 1280x768,1280x800,1366x768

WXGA+: 1440x900

WSXGA+: 1680x1050

Full HD: 1920x1080

**Presets / user settings**

Standard presets: 27;

user settings: 20

**Viewing adjustments**

Tilt: 30° back, -5° forward;

swivel: +/-45°; detachable stand

**Rotating screen**

Screen pivots 90 degrees from landscape to portrait

**On screen display**

On screen display with digital user controls (8 languages)

**Direct access (buttons on front) for automatic image setup, dual input and brightness**

**USB hub**

USB 3.0 Hub: 1 port into PC (USB 3.0); 2 ports for accessories (2 USB 3.0)

**Multimedia**

Integrated digital speakers (3 watts x 2)

**Camera**

Integrated camera (Full HD) and digital dual array microphone

**Multiple input**

Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

**Monitor connectors**

(1) VGA 15-pin D-shell, analog, blue

(2) HDMI (1.4), digital, HDCP-compliant

(3) DisplayPort, digital, black, HDCP-compliant

(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter

(2) detachable, DisplayPort at each end, digital, 1.8 meter

**Mounting features**

Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount

**Security**

Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**

Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter USB signal cable, 1.8 meter black power cord

### Limited Warranty


### Accessories

Kensington MicroSaver Cable Lock 73P2582

Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

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**ThinkVision T2224z Wide Monitor**

*Widescreen 21.5-inch monitor*

*Supports 1920x1080 resolution*

*Supports ThinkCentre Tiny Clamp Bracket*

*Supports optional soundbar*

*Includes dual input connection for attachment to two systems concurrently (analog and digital)*

*EPEAT Gold certified*

*Microsoft® Windows® 7 certified*

*Microsoft Windows 8 / Windows 8.1 certified*

*Microsoft Windows 10 certified*
**Lenovo ThinkVision T2254p Wide**

**Name**
T2254p Wide Flat Panel Monitor

**Bezel color**
Raven black

**Type-model**
61BAMAR2US / 60E1MAR2US / 60CCMAR2US / 60CCMAT2EU / 61BAMAT2EU

**Panel**
TFT-LCD, twisted nematic (TN), White LED backlight

**Viewable image size**
22.0" (559mm) diagonal

**Max view area (W x H)**
18.70" x 11.70" (473.8mm x 296.1mm)

**Native resolution**
1680x1050

**Aspect ratio**
16:10

**Pixel pitch (mm)**
0.282 x 0.282 mm

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

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

**Pixel response time**
5ms (typical)

**Color gamut**
72%

**Viewing angle at 10:1 CR**
170° (+/- 85°) horizontal, 160° (+/- 80°) vertical

**Stand**
Tilt, swivel, pivot, and height adjustable stand

**Bezel width**
Sides: 0.67" (17.1mm)

**Dimensions (HxWxD)**
14.63" H x 20.01" W x 9.55" D; 371.7mm H x 509.3mm W x 242.7mm D

**Power supply**
20 watts typical, 25 watts maximum, <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)

**Weight**
10.14 lb; 4.60 kg

**Limited warranty**
3 year (includes backlight)

**Available date**
March 2015

**VESA-compliant**
VESADDC2B/CI

**Power management**
ENERGY STAR® qualified

**Emission standards**
ISO 9241-307

**Environmental**
TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, **EPEAT**™ Gold rating

**Presets**
- VGA: 640x350, 640x480, 720x400
- SVGA: 800x600
- XGA: 1024x768, 1152x864
- SXGA: 1280x1024
- WXGA: 1280x768, 1280x800, 1366x768
- WXGA+: 1440x900
- WSXGA+: 1600x900, 1680x1050

**Presets / user settings**
- Standard presets: 28;
- User settings: 20

**Viewing adjustments**
Tilt: 30° back, -5° forward; lift: 4.3" (110mm); swivel: +/-45°; detachable stand

**Rotating screen**
Screen pivots 90 degrees from landscape to portrait

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

**Control features**
Direct access (buttons on front) for automatic image setup, dual input and brightness

**USB hub**
None

**Multiple input**
Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

**Monitor connectors**
(1) VGA 15-pin D-shell, analog, blue
(2) HDMI (1.4), digital, **HDCP-compliant**
(3) DisplayPort, digital, black, **HDCP-compliant**

**Signal cables**
(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter
(2) detachable, DisplayPort at each end, digital, 1.8 meter

**Mounting features**
Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount

**Security**
Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**
Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter black power cord

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### Limited Warranty

### Accessories

<table>
<thead>
<tr>
<th>Kensington MicroSaver Cable Lock</th>
<th>73P2582</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kensington Twin Head Cable Lock</td>
<td>45K1620</td>
</tr>
</tbody>
</table>

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
<table>
<thead>
<tr>
<th>Name</th>
<th>T22i Wide Flat Panel Monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bezel color</td>
<td>Black</td>
</tr>
<tr>
<td>Type-model</td>
<td>61A9MAR1US / 61A9MAT1EU</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, In-Plane Switching (IPS), White LED backlight</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>21.5” (546mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>18.74” x 10.54” (476.1mm x 267.8mm)</td>
</tr>
<tr>
<td>Native resolution</td>
<td>1920x1080</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.248 x 0.248 mm</td>
</tr>
<tr>
<td>Dot/Pixel per inch</td>
<td>102 dpi</td>
</tr>
<tr>
<td>Brightness</td>
<td>250 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1000:1 (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>6ms (typical); 4ms (extreme mode)</td>
</tr>
<tr>
<td>Color gamut</td>
<td>72%</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>178° (+/- 89°) horizontal, 178° (+/- 89°) vertical</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt, swivel, pivot, and height adjustable stand</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Sides: 0.08” (2.0mm)</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>14.08” H x 19.28” W x 9.92” D; 357.6mm H x 489.7mm W x 251.9mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>16.5 watts typical, 55 watts maximum (with USB 3.0 hub), &lt;0.5 watts standby/suspend, universal (no external brick-like power supply)</td>
</tr>
<tr>
<td>Weight</td>
<td>10.85 lb; 4.92 kg</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>Available date</td>
<td>April 2017</td>
</tr>
<tr>
<td>VESA-compliant</td>
<td>VESA DDC2B/Ci</td>
</tr>
<tr>
<td>Power management</td>
<td>ENERGY STAR® qualified</td>
</tr>
<tr>
<td>Ergonomics</td>
<td>ISO 9241-307</td>
</tr>
<tr>
<td>Emission standards</td>
<td>FCC Class B</td>
</tr>
<tr>
<td>Environmental</td>
<td>TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating</td>
</tr>
<tr>
<td>Preset resolutions</td>
<td>VGA: 640x350, 640x480, 720x400</td>
</tr>
<tr>
<td></td>
<td>SVGA: 800x600</td>
</tr>
<tr>
<td></td>
<td>XGA: 1024x768, 1152x864</td>
</tr>
<tr>
<td></td>
<td>SXGA: 1280x1024</td>
</tr>
<tr>
<td></td>
<td>WXGA: 1280x768, 1366x768</td>
</tr>
<tr>
<td></td>
<td>WXGA+: 1440x900, 1680x900</td>
</tr>
<tr>
<td></td>
<td>WUXGA+: 1680x1050</td>
</tr>
<tr>
<td></td>
<td>Full HD: 1920x1080</td>
</tr>
<tr>
<td>Presets display modes</td>
<td>HDMI: 17; DP: 17</td>
</tr>
</tbody>
</table>

**Features**

- Widescreen 21.5-inch monitor
- Supports 1920x1080 resolution
- Supports optional soundbar
- Supports ThinkCentre Tiny via VESA back mount
- Includes dual input connection for attachment to two systems concurrently
- EPEAT Gold certified
- Microsoft® Windows® 7 certified
- Microsoft Windows 10 certified

---

**Accessories**

- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

**See all monitors at** [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
**Features**
- Widescreen 21.5-inch monitor
- Supports 1920x1080 resolution
- Supports optional soundbar
- Supports ThinkCentre Tiny via VESA back mount
- EPEAT Gold certified
- Microsoft® Windows® 7 certified
- Microsoft Windows 10 certified

---

<table>
<thead>
<tr>
<th>Name</th>
<th>T22v Wide Flat Panel Monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bezel color</td>
<td>Black</td>
</tr>
<tr>
<td>Type-model</td>
<td>61BBMAR6US / 61BBMAT6EU</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, In-Plane Switching (IPS), White LED backlight</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>21.5” (546mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>18.74” x 10.54” (476.1mm x 267.8mm)</td>
</tr>
<tr>
<td>Native resolution</td>
<td>1920x1080</td>
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<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.248 x 0.248 mm</td>
</tr>
<tr>
<td>Dot/Pixel per Inch</td>
<td>102 dpi</td>
</tr>
<tr>
<td>Brightness</td>
<td>250 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1000:1 (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>6ms (typical); 4ms (extreme mode)</td>
</tr>
<tr>
<td>Color gamut</td>
<td>72%</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>178° (+/- 89°) horizontal, 178° (+/- 89°) vertical</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt, swivel, pivot, and height adjustable stand</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>19.14” H x 19.28” W x 9.92” D; 485.8mm H x 489.7mm W x 251.9mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>18 watts typical, 43 watts maximum (with USB 3.0 hub), &lt;0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
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<tr>
<td>Weight</td>
<td>10.16 lb; 4.61 kg</td>
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<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
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<td>Available date</td>
<td>October 2017</td>
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<tr>
<td>VESA-compliant</td>
<td>VESA DDC2B/CI</td>
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<tr>
<td>Power management</td>
<td>ENERGY STAR® qualified</td>
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<tr>
<td>Emission standards</td>
<td>FCC Class B</td>
</tr>
<tr>
<td>Environmental</td>
<td>TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating</td>
</tr>
</tbody>
</table>

**Presets and Display Modes**
- Presets: 24; user modes: 20

**Viewing Adjustments**
- Tilt: 30° back, -5° forward; Swivel: +/-45°; detachable stand
- Screen pivots 90 degrees from landscape to portrait
- On screen display: On screen display with digital user controls (8 languages)
- Control features: Direct access for power, menu, input source select, volume up / down, speaker mute and microphone mute
- USB hub: USB 3.0 Hub: 1 port into PC (USB 3.0); 2 ports for accessories (2 USB 3.0)
- Multimedia: Integrated speakers, dual-array microphone, audio-in and Audio-out, optional sound bar supported
- Camera: Integrated FHD camera with IR
- Multiple input: Support HDMI, DisplayPort, VGA
- Monitor connectors: Support HDMI, DisplayPort, VGA
  - (1) VGA 15-pin D-shell, analog, blue
  - (2) HDMI (1.4), digital, HDCP-compliant
  - (3) DisplayPort, digital, black, HDCP-compliant
- Signal cables: (1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter
  - (2) detachable, DisplayPort at each end, digital, 1.8 meter
- Mounting features: Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount
- Security: Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)
- Ship group: Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter USB signal cable, 1.8 meter black power cord, 1.8 meter HDMI signal cable (Row)

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**Limited Warranty**

**Accessories**
- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](www.lenovo.com/thinkvision)
### Lenovo ThinkVision T2324d Wide

**Name**

T2324d Wide Flat Panel Monitor

**Bezel color**

Black

**Type-model**

60F3JAR2US / 60F3JAT2EU

**Panel**

TFT-LCD, twisted nematic (TN), White LED backlight

**Viewable image size**

23.0" (584mm) diagonal

**Max view area (W x H)**

20.07" x 11.29" (509.8mm x 286.7mm)

**Native resolution**

1920x1080

**Aspect ratio**

16:9

**Pixel pitch (mm)**

0.2655 x 0.2655 mm

**Dot/Pixel per Inch**

96 dpi

**Brightness**

250 nits or cd/m² (typical)

**Contrast ratio**

1000:1 (typical)

**Pixel response time**

5ms (typical)

**Color gamut**

72%

**Viewing angle at 10:1 CR**

170° (+/- 85°) horizontal, 160° (+/- 80°) vertical

**Stand**

Tilt stand

**Bezel width**

Sides: 0.68" (17.3mm)

**Dimensions (HxWxD)**

400.3mm H x 545.8mm W x 204.9mm D

**Power supply**

20 watts typical,

27 watts maximum

<0.3 watts standby/suspend, universal, integrated (no external brick-like power supply)

**Weight**

7.06 lb; 3.20 kg

**Limited warranty**

3 year (includes backlight)

**Available date**

June 2016

**VESA-compliant**

VESADDC2B/C1

**Power management**

ENERGY STAR® qualified

**Ergonomics**

ISO 9241-307

**Emission standards**

FCC Class B

**Environmental**

TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating

**Preset resolutions**

VGA: 640x350, 640x480, 720x400

SVGA: 800x600

XGA: 1024x768, 1152x864

SXGA: 1280x1024

WXGA: 1280x768, 1280x800, 1366x768

WXGA+: 1440x900

WSXGA+: 1680x1050

Full HD: 1920x1080

**Presets / user settings**

Standard presets: 26; user settings: 16

**Viewing adjustments**

Tilt: 22° back, -5°

**Rotating screen**

None

**On screen display**

On screen display with digital user controls (8 languages)

**Control features**

Direct access (buttons on front) for automatic image setup, dual input and brightness

**USB hub**

None

**Multiple input**

Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

**Monitor connectors**

(1) VGA 15-pin D-shell, analog, blue

(2) DisplayPort, digital, black, HDCP-compliant

**Signal cables**

(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter

(2) detachable, DisplayPort at each end, digital, 1.8 meter

**Mounting features**

Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount

**Security**

Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**

Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter black power cord

### Features

- Widescreen 23.0-inch monitor
- Supports 1920x1080 resolution
- Supports optional soundbar
- Supports ThinkCentre Tiny via VESA back mount
- Includes dual input connection for attachment to two systems concurrently (analog and digital)
- EPEAT Gold certified
- Microsoft® Windows® 7 certified
- Microsoft Windows 10 certified

### Accessories

- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
Lenovo ThinkVision T2364t Wide Touch

Features
- Widescreen 23.0-inch monitor
- Supports 1920x1080 resolution
- Includes dual input connection for attachment to two systems concurrently
- EPEAT Gold certified
- 10-point touch screen
- Microsoft® Windows® 7 certified
- Microsoft Windows 10 certified

T2364t Wide Flat Panel Monitor
Black
60E9MAR1US / 60E9MAT1EU
TFT-LCD, In-Plane Switching (IPS), White LED backlight
23.0" (584mm) diagonal
20.05" x 11.28" (509.2mm x 286.4mm)
1920x1080
 Supports 10-point touch
16:9
0.2652 x 0.2652 mm
95 dpi
250 nits or cd/m² (typical)
1000:1 (typical)
7ms (typical)
72%
178° (+/- 89°) horizontal, 178° (+/- 89°) vertical
tilt adjustable stand
Sides: 0.079" (2.0mm)
12.53" H x 20.56" W x 2.86" D;
318.2mm H x 522.2mm W x 72.7mm D
22 watts typical,
45 watts maximum,
<0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)
9.24 lb; 4.32 kg
3 year (includes backlight)
June 2015
VESA DDC2B/CI
ENERGY STAR® qualified
ISO 9241-307
FCC Class B
TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating
VGA: 640x350, 640x480, 720x400, 700x570
SVGA: 800x600, 832x624
XGA: 1024x768, 1152x864
SXGA: 1280x1024
WXGA: 1366x768
WXGA+: 1440x900, 1600x900
WSXGA+: 1680x1050
Full HD: 1920x1080
User settings: 20
Tilt: 10° - 70° degrees; detachable stand
Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter HDMI cable, 1.8 meter DisplayPort cable, 1.8 meter USB signal cable, 1.8 meter black power cord

Name
Bezel color
Type-model
Panel
Viewable image size
Max view area (W x H)
Native resolution
Touch
Aspect ratio
Pixel pitch (mm)
Dot/Pixel per Inch
Brightness
Contrast ratio
Pixel response time
Color gamut
Viewing angle at 10:1 CR
Stand
Bezel width
Dimensions (HxWxD)
Power supply
Weight
Limited warranty
Available date
VESA-compliant
Power management
Ergonomics
Emission standards
Environmental
Preset resolutions
Presets / user settings
Viewing adjustments
Rotating screen
On screen display
Control features
USB hub
Multiple input
Monitor connectors
Signal cables
Mounting features
Security
Ship group

Limited Warranty
Accessories

Kensington MicroSaver Cable Lock
Kensington Twin Head Cable Lock

See all monitors at www.lenovo.com/thinkvision

Lenovo
May 2016

Product Specifications Reference (PSREF)

See details at www.lenovo.com/support/monitoraccessories
### Lenovo ThinkVision T23d-10

**Name:** T23d-10 Wide Flat Panel Monitor  
**Bezel color:** Black  
**Type-model:** 61C3MAR6US / 61C3MAT6EU  
**Panel:** TFT-LCD, In-Plane Switching (IPS), White LED backlight  
**Viewable image size:** 22.5" (571.5mm) diagonal  
**Max view area (W x H):** 19.5" x 12.4" (496.2mm x 313.9mm)  
**Native resolution:** 1920x1200  
**Aspect ratio:** 16:10  
**Pixel pitch (mm):** 0.25 x 0.25 mm  
**Brightness:** 250 nits or cd/m² (typical)  
**Contrast ratio:** 1000:1 (typical)  
**Pixel response time:** 6ms (typical)  
**Color gamut:** 72%  
**Viewing angle at 10:1 CR:** 178° (+/- 89°) horizontal, 178° (+/- 89°) vertical  
**Stand:** Tilt, swivel, pivot, and height adjustable stand  
**Bezel width:** Sides: 0.09" (2.3mm)  
**Dimensions (HxWxD):** 19.37" H x 19.73" W x 9.9" D; 491.9mm H x 501.2mm W x 251.9mm D  
**Power supply:** 15 watts typical, 18 watts maximum, <0.3 watts standby/suspend, universal, integrated (no external brick-like power supply)  
**Weight:** 10.67 lb; 4.85 kg  
**Limited warranty:** 3 year (includes backlight)  
**Available date:** June 2018  
**VESA-compliant:** VESA DDC2B/CI  
**Power management:** ENERGY STAR® qualified  
**Ergonomics:** ISO 9241-307  
**Emission standards:** FCC Class B  
**Environmental:** TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT® Gold rating  
**Preset resolutions:**  
- VGA: 640x480, 720x400  
- SVGA: 800x600  
- XGA: 1024x768  
- SXGA: 1280x1024  
- WXGA: 1366x768  
- WXGA+: 1440x900  
- WSXGA+: 1680x1050  
- Full HD: 1920x1080  
- WUXGA: 1920x1200  
**Presets display modes:** Standard presets: 27; user settings: 20  
**Viewing adjustments:**  
- Tilt: 30° back, -5° forward; lift: 4.3" (110mm); swivel: +/-45°; detachable stand  
- Rotating screen: Screen pivots 90 degrees from landscape to portrait  
- On screen display: On screen display with digital user controls (8 languages)  
- Control features: Direct access (buttons on front) for power, menu, input source select and brightness  
- USB hub: None  
- Multiple input: Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)  
- Monitor connectors:  
  - (1) VGA 15-pin D-shell, analog, blue  
  - (2) HDMI (1.4), digital, HDCP-compliant  
  - (3) DisplayPort, digital, black, HDCP-compliant  
- Signal cables:  
  - (1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter  
  - (2) detachable, DisplayPort at each end, digital, 1.8 meter  
- Mounting features: Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount  
- Security: Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)  
- Ship group: Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter black power cord, 1.8 meter HDMI signal cable (NA only)

### Features

- Widescreen 22.5-inch monitor  
- Supports 1920x1200 resolution  
- Supports ThinkCentre Tiny Clamp Bracket  
- Supports optional soundbar  
- Includes dual input connection for attachment to two systems concurrently  
- EPEAT Gold certified  
- Microsoft® Windows® 7 certified  
- Microsoft Windows 10 certified  

### Accessories

- Kensington MicroSaver Cable Lock 73P2582  
- Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

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

Lenovo  
July 2018
# Lenovo ThinkVision T23i

**Name** | T23i Wide Flat Panel Monitor  
---|---  
**Bezel color** | Black  
**Type-model** | 61ABMAR1US / 61ABMAT1EU  
**Panel** | TFT-LCD, In-Plane Switching (IPS), White LED backlight  
**Viewable image size** | 23" (584.2mm) diagonal  
**Max view area (W x H)** | 20.36" x 11.92" (517.2mm x 302.8mm)  
**Native resolution** | 1920x1080  
**Aspect ratio** | 16:9  
**Pixel pitch (mm)** | 0.2652 x 0.2652 mm  
**Dot/Pixel per inch** | 95.8 dpi  
**Brightness** | 250 nits or cd/m² (typical)  
**Contrast ratio** | 1000:1 (typical)  
**Pixel response time** | 6ms (typical)  
**Color gamut** | 72%  
**Viewing angle at 10:1 CR** | 178° (+/- 89°) horizontal, 178° (+/- 89°) vertical  
**Stand** | Tilt, swivel, pivot, and height adjustable stand  
**Bezel width** | Sides: 0.08" (2.0mm)  
**Dimensions (HxWxD)** | 13.3" H x 20.56" W x 10.4" D; 337.7mm H x 522.2mm W x 264.2mm D  
**Power supply** | 16 watts typical, 45 watts maximum (with USB 3.0 hub), <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)  
**Weight** | 10.65 lb; 4.92 kg  
**Limited warranty** | 3 year (includes backlight)  
**Available date** | April 2017  
**VESA-compliant** | VESA DDC2B/Ci  
**Power management** | ENERGY STAR® qualified  
**Ergonomics** | ISO 9241-307  
**Emission standards** | FCC Class B  
**Environmental** | TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT Gold rating  
**Preset resolutions** |  
| | VGA: 640x480, 720x400  
| | SVGA: 800x600  
| | XGA: 1024x768, 1152x864  
| | SXGA: 1280x1024  
| | WXGA+: 1440x900  
| | WUXGA+: 1680x1050  
| | Full HD: 1920x1080  
**Presets display modes** | HDMI: 18; DP: 18  
**Viewing adjustments** | Tilt: 30° back, -5° forward; lift: 4.3" (110mm); swivel: +/-45°; detachable stand  
**Rotating screen** | Screen pivots 90 degrees from landscape to portrait  
**On screen display** | On screen display with digital user controls (8 languages)  
**Control features** | Direct access (buttons on front) for power, menu, input source select and brightness and automatic image setup  
**USB hub** | USB 3.0 Hub: 1 port into PC (USB 3.0); 4 ports for accessories (4 USB 3.0)  
**Multiple input** | Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)  
**Monitor connectors** | (1) VGA 15-pin D-shell, analog, blue  
| | (2) HDMI (1.4), digital, HDCP-compliant  
| | (3) DisplayPort, digital, black, HDCP-compliant  
**Signal cables** | (1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter  
| | (2) detachable, DisplayPort at each end, digital, 1.8 meter  
**Mounting features** | Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount  
**Security** | Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)  
**Ship group** | Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter USB signal cable, 1.8 meter black power cord  

## Features
- Widescreen 23-inch monitor  
- Supports 1920x1080 resolution  
- Supports ThinkCentre Tiny Clamp Bracket  
- Includes dual input connection for attachment to two systems concurrently  
- EPEAT Gold certified  
- Microsoft® Windows® 7 certified  
- Microsoft Windows 10 certified

## Accessories
- Kensington MicroSaver Cable Lock  
- Kensington Twin Head Cable Lock  

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)  

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
### LenovoThinkVision T2424z Wide Flat Panel Monitor

**Name**
T2424z Wide Flat Panel Monitor

**Bezel color**
Raven black

**Type-model**
60F8MAR1US / 60F8MAT1EU

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

**Viewable image size**
23.8" (604.7mm) diagonal

**Max view area (W x H)**
20.75" x 11.67" (527.0mm x 296.5mm)

**Native resolution**
1920x1080

**Aspect ratio**
16:9

**Pixel pitch (mm)**
0.2745 x 0.2745 mm

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

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

**Pixel response time**
7ms (typical)

**Color gamut**
72%

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

**Stand**
Tilt, swivel, pivot, and height adjustable stand

**Bezel width**
Sides: 0.69" (17.5mm)

**Dimensions (HxWxD)**
19.53" H x 22.19" W x 10.39" D; 496.0mm H x 563.6mm W x 264.2mm D

**Power supply**
22 watts typical, 40 watts maximum (without USB 3.0 hub), <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)

**Weight**
12.90 lb; 5.85 kg

**Limited warranty**
3 year (includes backlight)

**Available date**
June 2016

**VESA-compliant**
VESA DDC2B/Ci

**Power management**
ENERGY STAR® qualified

**Ergonomics**
ISO 9241-307

**Emission standards**
FCC Class B

**Environmental**
TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS; EPEAT™ Gold rating

**Preset resolutions**
- VGA: 640x350, 640x480, 720x400
- SVGA: 800x600
- XGA: 1024x768, 1152x864
- SXGA: 1280x1024
- WXGA+: 1440x900, 1600x900
- WSXGA+: 1680x1050
- Full HD: 1920x1080

**Presets / user settings**
- Standard presets: 31; user settings: 20
- Tilt: 30° back, -5° forward; lift: 4.3° (110mm); swivel: +/-45°; detachable stand

**Viewing adjustments**
Screen pivots 90 degrees from landscape to portrait

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

**Control features**
Direct access (buttons on front) for automatic image setup, dual input and brightness

**USB hub**
USB 3.0 Hub: 1 port into PC (USB 3.0); 2 ports for accessories (2 USB 3.0)

**Multimedia**
Integrated digital speakers (3 watts x 2)

**Camera**
Integrated camera (Full HD) and digital dual array microphone

**Multiple input**
Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

**Monitor connectors**
(1) VGA 15-pin D-shell, analog, blue
(2) HDMI (1.4), digital, HDCP-compliant
(3) DisplayPort, digital, black, HDCP-compliant

**Signal cables**
(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter
(2) detachable, DisplayPort at each end, digital, 1.8 meter

**Mounting features**
Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount

**Security**
Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**
Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter USB signal cable, 1.8 meter black power cord

### Features
- Widescreen 23.8-inch monitor
- Supports 1920x1080 resolution
- Supports ThinkCentre Tiny Clamp Bracket
- Includes dual input connection for attachment to two systems concurrently (analog and digital)
- EPEAT Gold certified
- Microsoft® Windows® 7 certified
- Microsoft Windows 8 / Windows 8.1 certified
- Microsoft Windows 10 certified

### Accessories
- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

See details at www.lenovo.com/support/monitoraccessories

See all monitors at www.lenovo.com/thinkvision
### ThinkVision T2454p Wide Monitor

#### Features
- Widescreen 24.0-inch monitor
- Supports 1920x1200 resolution
- Supports ThinkCentre Tiny Clamp Bracket
- Supports optional soundbar
- Includes dual input connection for attachment to two systems concurrently (analog and digital)
- EPEAT Gold certified
- Microsoft® Windows® 7 certified
- Microsoft Windows 8 / Windows 8.1 certified
- Microsoft Windows 10 certified

#### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<td>ThinkVision T2454p Wide Flat Panel Monitor</td>
</tr>
<tr>
<td>Brand</td>
<td>Lenovo</td>
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<tr>
<td>Model</td>
<td>T2454p</td>
</tr>
<tr>
<td>Panel</td>
<td>Flat Panel Monitor</td>
</tr>
<tr>
<td>Panel Type</td>
<td>TFT-LCD, In-Plane Switching (IPS), White LED backlights</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>24.0” (609.6mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>20.41” x 12.76” (518.4mm x 324.0mm)</td>
</tr>
<tr>
<td>Native resolution</td>
<td>1920x1200</td>
</tr>
<tr>
<td>Aspect Ratio</td>
<td>16:10</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.270 x 0.270 mm</td>
</tr>
<tr>
<td>Brightness</td>
<td>300 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1000:1 (typical)</td>
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<td>Pixel response time</td>
<td>7ms (typical)</td>
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<tr>
<td>Color gamut</td>
<td>77.4%</td>
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<tr>
<td>Viewing angle at 10:1 CR</td>
<td>178° (+/- 89°) horizontal, 178° (+/- 89°) vertical</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt, swivel, pivot, and height adjustable stand</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Sides: 0.74” (18.8mm)</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>15.85” H x 21.94” W x 10.39” D; 402.5mm H x 557.4mm W x 264.2mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>24 watts typical, 27 watts maximum (without USB 3.0 hub), 54 watts maximum (with USB 3.0 hub), &lt;0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
</tr>
<tr>
<td>Weight</td>
<td>13.60 lb; 6.15 kg</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>Available date</td>
<td>March 2015</td>
</tr>
<tr>
<td>VESA-compliant</td>
<td>VESA DDC2B/C1</td>
</tr>
<tr>
<td>Power management</td>
<td>ENERGY STAR® qualified</td>
</tr>
<tr>
<td>Ergonomics</td>
<td>ISO 9241-307</td>
</tr>
<tr>
<td>Emission standards</td>
<td>FCC Class B</td>
</tr>
<tr>
<td>Environmental</td>
<td>TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating</td>
</tr>
<tr>
<td>Preset resolutions</td>
<td>VGA: 640x350, 640x480, 720x400; SVGA: 800x600; XGA: 1024x768; SXGA: 1280x1024; WXGA: 1280x720, 1280x768, 1280x800; WXGA+: 1440x900; WSGXA+: 1680x1050, 1600x1200; Full HD: 1920x1080, 1920x1200</td>
</tr>
<tr>
<td>Presets / user settings</td>
<td>Standard presets: 21; user settings: 20</td>
</tr>
<tr>
<td>Viewing adjustments</td>
<td>Tilt: 30° back, -5° forward; swivel: +/−45°; detachable stand</td>
</tr>
<tr>
<td>Rotating screen</td>
<td>Screen pivots 90 degrees from landscape to portrait</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>Direct access (buttons on front) for automatic image setup, dual input and brightness</td>
</tr>
<tr>
<td>USB hub</td>
<td>USB 3.0 Hub: 1 port into PC (USB 3.0); 4 ports for accessories (4 USB 3.0)</td>
</tr>
<tr>
<td>Multiple input</td>
<td>Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)</td>
</tr>
<tr>
<td>Monitor connectors</td>
<td>(1) VGA 15-pin D-shell, analog, blue; (2) HDMI (1.4), digital, HDCP-compliant; (3) DisplayPort, digital, black, HDCP-compliant</td>
</tr>
<tr>
<td>Signal cables</td>
<td>(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter; (2) detachable, DisplayPort at each end, digital, 1.8 meter</td>
</tr>
<tr>
<td>Mounting features</td>
<td>Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount</td>
</tr>
<tr>
<td>Security</td>
<td>Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)</td>
</tr>
<tr>
<td>Ship group</td>
<td>Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DisplayPort cable, 1.8 meter USB signal cable, 1.8 meter black power cord</td>
</tr>
</tbody>
</table>

#### Limited Warranty

#### Accessories
- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
Name: T24d Wide Flat Panel Monitor
Bezel color: Black
Type-model: 61B4MAR1US / 61B4MAT1EU
Panel: TFT-LCD, In-Plane Switching (IPS), White LED-Backlight
Viewable image size: 24" (609.6mm) diagonal
Max view area (W x H): 20.41" x 12.75" (518.4mm x 324mm)
Native resolution: 1920x1200
Aspect ratio: 16:10
Pixel pitch (mm): 0.27 x 0.27 mm
Dot/Pixel per Inch: 94 dpi
Brightness: 300 nits or cd/m² (typical)
Contrast ratio: 1000:1 (typical)
Pixel response time: 7ms (typical)
Color gamut: 99%
Viewing angle at 10:1 CR: 178° (+/- 89°) horizontal, 178° (+/- 89°) vertical
Stand: Tilt, swivel, pivot, and height adjustable stand
Dimensions (HxWxD): 19.58" H x 20.99" W x 10.25" D;
497.4mm H x 533.2mm W x 260.4mm D
Power supply: 22 watts typical,
64 watts maximum (with USB 3.0 hub),
<0.3 watts standby/suspend, universal, integrated (no external brick-like power supply)
Weight: 12.41 lb; 5.63 kg
Limited warranty: 3 year (includes backlight)
Available date: June 2017

Features:
- Widescreen 24-inch monitor
- Supports 1920x1200 resolution
- Supports ThinkCentre Tiny Clamp Bracket
- Includes dual input connection for attachment to two systems concurrently
- EPEAT Gold certified
- Microsoft® Windows® 7 certified
- Microsoft Windows 10 certified

ThinkVision T24d Wide Monitor

VESA-compliant: VESA DDC2B/C
Power management: ENERGY STAR® qualified
Ergonomics: ISO 9241-307
Emission standards: FCC Class B
Environmental: TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating
Preset resolutions: VGA: 640x480, 720x400
SVGA: 800x600
XGA: 1024x768
SXGA: 1280x1024
WXGA: 1366x768
WXGA+: 1440x900
WSXGA+: 1680x1050
Full HD: 1920x1080
WUXGA: 1920x1200
Presets display modes: Standard presets: 22; user settings: 20

Viewing adjustments: Tilt: 30° back, -5° forward; lift: 4.3° (110mm); swivel: +/-45°; detachable stand
Rotating screen: Screen pivots 90 degrees from landscape to portrait
On screen display: On screen display with digital user controls (8 languages)
Control features: Direct access (buttons on front) for power, menu, input source select and brightness
USB hub: USB 3.0 Hub: 1 port into PC (USB 3.0); 4 ports for accessories (4 USB 3.0)
Multiple input: Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)
Monitor connectors:
(1) VGA 15-pin D-shell, analog, blue (2) HDMI (1.4), digital, HDCP-compliant
(3) DisplayPort, digital, black, HDCP-compliant
Signal cables:
(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter
(2) detachable, DisplayPort at each end, digital, 1.8 meter
Mounting features:
Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount
Security: Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)
Ship group: Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter USB signal cable, 1.8 meter black power cord, 1.8 meter HDMI signal cable (NA only)

Limited Warranty

Accessories
Kensington MicroSaver Cable Lock 73P2582
Kensington Twin Head Cable Lock 45K1620

See details at www.lenovo.com/support/monitoraccessories
See all monitors at www.lenovo.com/thinkvision

Lenovo
July 2017
Lenovo ThinkVision T24i

**Name**
T24i Wide Flat Panel Monitor

**Bezel color**
Black

**Type-model**
61A6MAR3US / 61A6MAT3EU

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

**Viewable image size**
23.8" (604.7mm) diagonal

**Max view area (W x H)**
20.75" x 11.67" (527.04mm x 296.5mm)

**Native resolution**
1920x1080

**Aspect ratio**
16:9

**Pixel pitch (mm)**
0.2745 x 0.2745 mm

**Dot/Pixel per Inch**
93 dpi

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

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

**Pixel response time**
6ms (typical)

**Color gamut**
72%

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

**Stand**
Tilt, swivel, pivot, and height adjustable stand

**Bezel width**
Sides: 0.08" (2.0mm)

**Dimensions (HxWxD)**
14.7" H x 21.26" W x 10.3" D; 373.4mm H x 540.2mm W x 261.75mm D

**Power supply**
16.5 watts typical, 55 watts maximum (with USB 3.0 hub), <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)

**Weight**
11.57 lb; 5.25 kg

**Limited warranty**
3 year (includes backlight)

**Available date**
April 2017

**VESA-compliant**
VESA DDC2B/Ci

**Power management**
ENERGY STAR® qualified

**Ergonomics**
ISO 9241-307

**Emission standards**
FCC Class B

**Environmental**
TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT® Gold rating

**Presets resolutions**
- VGA: 640x480, 720x400
- SVGA: 800x600
- XGA: 1024x768
- SXGA: 1280x1024
- WXGA: 1366x768
- WXGA+: 1440x900, 1680x900
- WUXGA+: 1680x1050
- Full HD: 1920x1080

**Preset display modes**
HDMI: 17; DP: 17

**Viewing adjustments**
Tilt: 30° back, -5° forward; lift: 4.3° (110mm); swivel: +/−45°; detachable stand

**Rotating screen**
Screen pivots 90 degrees from landscape to portrait

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

**Control features**
Direct access (buttons on front) for power, menu, input source select and brightness and automatic image setup

**USB hub**
USB 3.0 Hub: 1 port into PC (USB 3.0); 4 ports for accessories (4 USB 3.0)

**Multiple input**
Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

**Monitor connectors**
(1) VGA 15-pin D-shell, analog, blue
(2) HDMI (1.4), digital, HDCP-compliant
(3) DisplayPort, digital, black, HDCP-compliant

**Signal cables**
(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter
(2) detachable, DisplayPort at each end, digital, 1.8 meter

**Mounting features**
Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount

**Security**
Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**
Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter USB signal cable, 1.8 meter black power cord

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**Limited Warranty**

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**Accessories**
Kensington MicroSaver Cable Lock 73P2582
Kensington Twin Head Cable Lock 45K1620

See details at www.lenovo.com/support/monitoraccessories

See all monitors at www.lenovo.com/thinkvision

Lenovo
July 2017
### Lenovo ThinkVision T24m

#### Features
- Widescreen 23.8-inch monitor
- Supports 1920x1080 resolution
- Supports ThinkCentre Tiny Clamp Bracket
- Supports optional soundbar
- EPEAT Gold certified
- Microsoft® Windows® 7 certified
- Microsoft Windows 10 certified

#### Presets display modes
- Tilt: 30° back, -5° forward; lift: 4.3° (110mm); swivel: +/-45°; detachable stand

#### Security
- Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

#### Limited Warranty

#### Accessories
- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
### Lenovo ThinkVision T24v Wide Flat Panel Monitor

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>T24v Wide Flat Panel Monitor</td>
</tr>
<tr>
<td>Bezel color</td>
<td>Black</td>
</tr>
<tr>
<td>Type-model</td>
<td>61B8MAR6US / 61B8MAT6EU</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, In-Plane Switching (IPS), White LED backlight</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>23.8&quot; (604.5mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>20.75&quot; x 11.67&quot; (527.04mm x 296.46mm)</td>
</tr>
<tr>
<td>Native resolution</td>
<td>1920x1080</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.2745 x 0.2745 mm</td>
</tr>
<tr>
<td>Dot/Pixel per Inch</td>
<td>92 dpi</td>
</tr>
<tr>
<td>Brightness</td>
<td>250 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1000:1 (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>6ms (typical); 4ms (extreme mode)</td>
</tr>
<tr>
<td>Color gamut</td>
<td>72%</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>178° (±/− 89°) horizontal, 178° (±/− 89°) vertical</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt, swivel, pivot, and height adjustable stand</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Sides: 0.08” (2.0mm)</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>19.72” H x 21.28” W x 10.32” D; 500.5mm H x 540.2mm W x 261.9mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>20 watts typical, 45 watts maximum (with USB 3.0 hub), &lt;0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
</tr>
<tr>
<td>Weight</td>
<td>11.18 lb; 5.07 kg</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>Available date</td>
<td>October 2017</td>
</tr>
<tr>
<td>VESA-compliant</td>
<td>VESA DDC2B/CI</td>
</tr>
<tr>
<td>Power management</td>
<td>ENERGY STAR® qualified</td>
</tr>
<tr>
<td>Ergonomics</td>
<td>ISO 9241-307</td>
</tr>
<tr>
<td>Emission standards</td>
<td>FCC Class B</td>
</tr>
<tr>
<td>Environmental</td>
<td>TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT® Gold rating</td>
</tr>
<tr>
<td>Preset resolutions</td>
<td>VGA: 640x480, 720x400, SVGA: 800x600, 832x624, XGA: 1024x768, 1152x864, SXGA: 1280x1024, WXGA+: 1440x900, 1600x900, WUXGA+: 1680x1050, Full HD: 1920x1080</td>
</tr>
<tr>
<td>Presets display modes</td>
<td>Presets: 24; user modes: 20</td>
</tr>
<tr>
<td>Viewing adjustments</td>
<td>Tilt: 30° back, -5° forward; lift: 4.3° (110mm); swivel: +/-45°; detachable stand</td>
</tr>
<tr>
<td>Rotating screen</td>
<td>Screen pivots 90 degrees from landscape to portrait</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>Direct access for power, menu, input source select, volume up / down, speaker mute and microphone mute</td>
</tr>
<tr>
<td>USB hub</td>
<td>USB 3.0 Hub: 1 port into PC (USB 3.0); 2 ports for accessories (2 USB 3.0)</td>
</tr>
<tr>
<td>Multimedia</td>
<td>Integrated speakers, dual-array microphone, audio-in and Audio-out, optional sound bar supported</td>
</tr>
<tr>
<td>Camera</td>
<td>Integrated FHD camera with IR</td>
</tr>
<tr>
<td>Multiple input</td>
<td>Support HDMI, DisplayPort, VGA</td>
</tr>
<tr>
<td>Monitor connectors</td>
<td>(1) VGA 15-pin D-shell, analog, blue</td>
</tr>
<tr>
<td></td>
<td>(2) HDMI (1.4), digital, HDCP-compliant</td>
</tr>
<tr>
<td>Signal cables</td>
<td>(3) DisplayPort, digital, black, HDCP-compliant</td>
</tr>
<tr>
<td>Mounting features</td>
<td>(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter</td>
</tr>
<tr>
<td>Security</td>
<td>(2) detachable, HDMI at each end, digital, 1.8 meter</td>
</tr>
<tr>
<td>Ship group</td>
<td>Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount</td>
</tr>
</tbody>
</table>

### Features
- Widescreen 23.8-inch monitor
- Supports 1920x1080 resolution
- Supports ThinkCentre Tiny Clamp Bracket
- Supports optional soundbar
- EPEAT Gold certified
- Microsoft® Windows® 7 certified
- Microsoft Windows 10 certified

### Accessories
- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

Lenovo
October 2017
Lenovo ThinkVision X24 Pro Wide

**Name**
X24 Pro Wide Flat Panel Monitor

**Bezel color**
Black

**Type-model**
60E4ECR1US / 60E4ECT1US / 60E4ECT1EU

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

**Viewable image size**
23.8" (604.5mm) diagonal

**Max view area (W x H)**
20.75" x 11.67" (527.0mm x 296.5mm)

**Native resolution**
1920x1080

**Aspect ratio**
16:9

**Pixel pitch (mm)**
0.2745 x 0.2745 mm

**Dot/Pixel per Inch**
92 dpi

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

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

**Pixel response time**
7ms (typical)

**Color gamut**
72%

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

**Stand**
Tilt stand

**Bezel width**
Sides: 0.09” (2.3mm)

**Dimensions (HxWxD)**
17.16” H x 21.30” W x 9.39” D; 447.4mm H x 540.9mm W x 238.4mm D

**Power supply**
20 watts typical, 90 watts maximum,
<0.5 watts standby/suspend, universal, external power supply

**Weight**
9.26 lb; 4.20 kg

**Limited warranty**
1 year (includes backlight)

**Available date**
July 2016

**Power management**
ENERGY STAR® qualified

**Ergonomics**
ISO 9241-307

**Emission standards**
FCC Class B

**Environmental**
TCO Displays 6.0, WEEE, RoHS, EPEAT® Silver rating

**Preset resolutions**
VGA: 640x350, 640x480, 720x400
SVGA: 800x600
XGA: 1024x768
SXGA: 1280x1024
WXGA: 1366x768
WXGA+: 1440x900, 1600x900
WSXGA+: 1680x1050
Full HD: 1920x1080

**Presets / user settings**
Standard presets: 16;
user settings: 20

**Viewing adjustments**
Tilt: 22° back, -5° forward

**Rotating screen**
None

**On screen display**
On screen display with digital user controls

**Control features**
Direct access (buttons on side bezel) for dual input and brightness

**USB hub**
USB Hub: two USB 3.1 Type-C and one micro USB 3.0 ports

**Multimedia**
Integrated stereo speakers (3 watts x 2), built-in microphone

**Camera**
RealSense 3D camera SR300

**Multiple input**
Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

**Monitor connectors**
(1) mDP, Mini DisplayPort, digital, HDCP-compliant
(2) USB Type-C, digital
(1) detachable, mDP to DP, digital, 2.0 meter
(2) DP to mDP adapter
(3) Micro USB 3.0 cable

**Signal cables**
None

**Mounting features**
Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Security**
Monitor with stand, Safety and Warranty Information, ThinkPad 90W Square tip power adaptor, 2.0 meter Mini DisplayPort to DisplayPort signal cable (with DP to mDP adapter), Micro USB 3.0 cable (for using camera)

**Limited Warranty**

**Accessories**
Kensington MicroSaver Cable Lock 73P2582
Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

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**Features**
- Widescreen 23.8-inch monitor
- Supports 1920x1080 resolution
- Includes dual input connection for attachment to two systems concurrently
- EPEAT Silver certified
- Intel RealSense 3D camera
- Stereo speakers 3 watts x 2
- One cable docking through USB 3.1 Type C
- Windows Hello certified
- Microsoft® Windows® 10 certified

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**ThinkVision X24 Pro Wide Monitor**
### Lenovo ThinkVision X24-20

#### Features
- Widescreen 23.8-inch monitor
- Supports 1920x1080 resolution
- Includes dual input connection for attachment to two systems concurrently
- EPEAT Silver certified
- Microsoft Windows® 7 certified
- Microsoft Windows 10 certified

#### Preset resolutions
- VGA: 640x350, 640x480, 720x400
- SVGA: 800x600
- XGA: 1024x768
- SXGA: 1280x1024
- WXGA: 1366x768
- WXGA+: 1440x900, 1600x900
- WUXGA+: 1680x1050
- Full HD: 1920x1080

#### Presets / user settings
- Standard presets: 18;
  - user settings: 0

#### Power management
- ENERGY STAR® qualified

#### Ergonomics
- ISO 9241-307

#### Environmental
- TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT® Silver rating

#### Viewable image size 
- 23.8" (604.5mm) diagonal

#### Max view area (W x H)
- 20.75" x 11.67" (527.0mm x 296.5mm)

#### Native resolution
- 1920x1080

#### Aspect ratio
- 16:9

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

#### Dot/Pixel per Inch
- 92 dpi

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

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

#### Pixel response time
- 6ms (typical)

#### Color gamut
- 72% (NTSC)

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

#### Tilt stand

#### Bezel width
- Sides: 0.04" (1.1mm)
- Dimensions (HxWxD):
  - 12.85" H x 21.16" W x 8.66" D;
  - 326.4mm H x 537.4mm W x 220mm D

#### Power supply
- 20 watts typical,
- 25 watts maximum,
- <0.5 watts standby/suspend, universal, external power supply

#### Weight
- 7.3 lb; 3.3 kg

#### Limited warranty
- 3 year (includes backlight)

#### Available date
- December 2017

#### Power supply
- ENERGY STAR® qualified

#### Ergonomics
- ISO 9241-307

#### Environmental
- TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT® Silver rating

#### Preset resolutions
- VGA: 640x350, 640x480, 720x400
- SVGA: 800x600
- XGA: 1024x768
- SXGA: 1280x1024
- WXGA: 1366x768
- WXGA+: 1440x900, 1600x900
- WUXGA+: 1680x1050
- Full HD: 1920x1080

#### Presets / user settings
- Standard presets: 18;
  - user settings: 0

#### Viewing adjustments
- Tilt: 30° back, -5° forward

#### Rotating screen
- None

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

#### Control features
- Direct access (buttons on side bezel) for power, dual input and brightness

#### USB hub
- None

#### Multiple input
- Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

#### Monitor connectors
- (1) HDMI (1.4a), digital, HDCP-compliant
- (2) DisplayPort, digital, black, HDCP-compliant

#### Signal cables
- (1) detachable, HDMI at each end, digital, 1.8 meter

#### Mounting features
- None

#### Security
- Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

#### Ship group
- Monitor with stand, Safety and Warranty Information, 1.8 meter HDMI signal cable, 1.8 meter black power cord

### Accessories

#### See details at

#### Kensington MicroSaver Cable Lock
- 73P2582

#### Kensington Twin Head Cable Lock
- 45K1620

#### See all monitors at
- [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

---

**Lenovo ThinkVision X24-20 Monitor**
## Lenovo ThinkVision P27

### Name

- **P27 Wide Flat Panel Monitor**

### Case color

- **Black**

### Type-model

- **60E3GAR1US / 60E3GAT1EU**

### Panel

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

### Viewable image size

- **27” (684.7mm) diagonal**

### Max view area (W x H)

- **23.49” x 13.21” (596.7mm x 335.7mm)**

### Optimum resolution

- **3840x2160**

### Max pixel rate

- **600MHz**

### Aspect ratio

- **16:9**

### Pixel pitch (mm)

- **0.16 x 0.16mm**

### Dot/Pixel per Inch

- **163 dpi**

### Brightness

- **300 nits or cd/m² (typical)**

### Contrast ratio

- **1300:1 (typical)**

### Pixel response time

- **6ms**

### Color gamut

- **99%**

### Viewing angle at 10:1 CR

- **178° horizontal, 178° vertical**

### Stand

- Tilt, swivel, pivot, and height adjustable stand

### Bezel width

- **Sides: 0.088” (2.23mm)**

### Dimensions (HxWxD, including stand)

- **472.3mm H x 614.5mm W x 299.9mm D**

### Power supply

- **40 watts typical, 70 watts maximum (with USB), <0.5 watts sleep/standby, <0.5 watts switch off**

### Weight

- **15.12 lb; 6.86kg (including stand)**

### Limited warranty

- **3 year**

### Available date

- **March 2016**

### Preset resolutions

- **VGA: 640x480, 720x400**
- **SVGA: 800x600**
- **XGA: 1024x768, 1152x864**
- **SXGA: 1280x1024**
- **WXGA: 1280x720, 1280x768, 1280x800, 1360x768**
- **WXGA+: 1440x900, 1600x900**
- **WSXGA+: 1680x1050**
- **Full HD: 1920x1080, 1920x1200**
- **UHD: 3840x2160**

### Presets / user settings

- Standard presets: 20; user settings: 20

### Viewing adjustments

- **Tilt: 30° back, -5° forward; lift: 3.15” (80mm); swivel: +/-45°**

### Rotating screen

- **Screen pivots 90 degrees from landscape to portrait**

### On screen display

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

### Control features

- Direct access (touch buttons on front) for menu, mute, volume up/down, and brightness

### USB hub

- USB Hub: one USB 3.0 upstream port, four USB 3.0 downstream ports

### Multimedia

- Integrated stereo speakers (3 watts x 2)

### Camera

- None

### Multiple input

- Support HDMI, DisplayPort

### Monitor connectors

- (1) HDMI (2.0), digital, HDCP-compliant
- (2) DisplayPort (1.2), digital, HDCP-compliant

### Signal cables

- (1) detachable, DisplayPort at each end, digital, 1.8 meter

### Mounting features

- Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)

### Security

- Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

### Ship group

- Monitor, detachable stand, Quick start and safety poster, 1.8 meter DisplayPort cable, 1.8 meter USB 3.0 cable, 1.8 meter black power cord, mini DP to DP adapter, power adapter (90W)

### Limited Warranty


### Accessories

- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620
- Lenovo Security Cable Lock 57Y4303

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
## Features
- 27-inch IPS LED backlit monitor
- Supports 2560x1440 resolution
- 5-Ports USB hub, support USB 3.0
- Supports optional soundbar
- Support ThinkCentre Tiny
- Microsoft® Windows® 7 certified
- Microsoft Windows 10 certified

## ThinkVision P27h Monitor
![ThinkVision P27h Monitor](image_url)

## Name
- P27h Wide Flat Panel Monitor

## Case color
- Black

## Type-model
- 61AFGAR1US / 61AFGAT1EU

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

## Viewable image size
- 27” (685.8mm) diagonal

## Max view area (W x H)
- 23.49” x 13.21” (596.7mm x 335.7mm)

## Optimum resolution
- 2560x1440

## Max pixel rate
- 300MHz

## Aspect ratio
- 16:9

## Pixel pitch (mm)
- 0.2331 x 0.2331mm

## Dot/Pixel per Inch
- 109 dpi

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

## Contrast ratio
- 1000:1 (typical)

## Pixel response time
- 4ms (extreme) / 6ms (typical)

## Color gamut
- 99% sRGB

## Viewing angle at 10:1 CR
- 178° horizontal, 178° vertical

## Stand
- Tilt, swivel, pivot, and height adjustable stand

## Bezel width
- Sides: 0.08” (2mm)

## Dimensions
- 20.21” H x 24.08” W x 10.62” D;
  - (HxWxD, including stand) 513mm H x 611.6mm W x 269.8mm D

## Power supply
- 38 watts typical,
  - 140 watts maximum (with USB),
  - <0.5 watts sleep/off;
  - <0.5 watts switch off integrated (no external brick-like power supply)

## Weight
- 15.43 lb; 7.0kg (including stand)

## Limited warranty
- 3 year

## Available date
- April 2017

## VESA-compliant
- VESA DDC2B/CI

## Power management
- ENERGY STAR® 7.0

## Ergonomics
- ISO 9241-307

## Emission standards
- FCC Class B

## Environmental
- TCO Displays 7.0, RoHS, EPEAT™ Gold rating,
  - ULE Gold

## Preset resolutions
- VGA: 640x480, 720x400
- SVGA: 800x600
- XGA: 1024x768
- SXGA: 1280x1024
- WXGA: 1366x768
- WXGA+: 1440x900, 1680x900
- WSXGA+: 1680x1050
- Full HD: 1920x1080, 1920x1200
- QHD: 2560x1440

## Presets display modes
- HDMI: 22; DP: 14

## Viewing adjustments
- Tilt: 30° back, -5° forward; lift: 4.33° (110mm); swivel: +/-45°

## Rotating screen
- Screen pivots 90 degrees from landscape to portrait

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

## Control features
- Direct access (buttons on front) for power, menu, input source select and brightness

## USB hub
- USB Hub: one USB 3.1 Type-C upstream port, four USB 3.0 Type-A downstream ports

## Multimedia
- Audio-out, optional sound bar supported

## Camera
- None

## Multiple input
- Support HDMI, DisplayPort, USB 3.1 Type-C, DisplayPort-out

## Monitor connectors
- (1) 2*HDMI (1.4), digital, HDCP-compliant
- (2) DisplayPort (1.2), digital, HDCP-compliant
- (3) DisplayPort-out, digital
- (4) USB 3.1 Type-C

## Signal cables
- (1) USB 3.1 Type-C cable, 1.8 meter

## Mounting features
- Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)

## Security
- Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

## Ship group
- Monitor, detachable stand, Quick start and safety poster, 1.8 meter USB 3.1 Type-C cable, 1.8 meter black power cord

## Limited Warranty

## Accessories
- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620
- Lenovo Security Cable Lock 57Y4303

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)
See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
## Lenovo ThinkVision P27u

**Features**
- 27-inch IPS LED backlit monitor
- Supports 3840x2160 resolution
- 5-Ports USB hub, support USB 3.0
- Support ThinkCentre Tiny
- Supports optional soundbar
- Microsoft® Windows® 7 certified
- Microsoft Windows 10 certified

### Name
P27u Wide Flat Panel Monitor

### Case color
Black

### Type-model
61CBGAR1US / 61CBGAT1EU / 61CBGAR1EU / 61B0GAR1US / 61B0GAT1EU

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

### Viewable image size
27" (684.7mm) diagonal

### Max view area (W x H)
23.49" x 13.21" (596.74mm x 335.66mm)

### Optimum resolution
3840x2160

### Max pixel rate
600MHz

### Aspect ratio
16:9

### Pixel pitch (mm)
0.1554 x 0.1554mm

### Brightness
163 dpi

### Contrast ratio
350 nits or cd/m² (typical)

### Pixel response time
1000:1 (typical)

### Viewing angle at 10:1 CR
6ms (typical)

### Color gamut
1.457 sRGB

### Viewing angle at 10:1 CR
178° horizontal, 178° vertical

### Stand
Tilt, swivel, pivot, and height adjustable stand

### Bezel width
Sides: 0.08" (2mm)

### Dimensions
(hxWxD, including stand) 513.3mm H x 611.6mm W x 269.8mm D

### Power supply
50 watts typical, 160 watts maximum (with USB), <0.5 watts sleep/off, <0.3 watts switch off integrated (no external brick-like power supply)

### Weight
15.32 lb; 6.95kg (including stand)

### Limited warranty
3 year

### Available date
August 2017

### VESA-compliant
VESADDC2B/CI

### Power management
ENERGY STAR® 7.0

### Ergonomics
ISO 9241-307

### Emission standards
TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating, ULE Gold

### Preset resolutions
- VGA: 640x480, 720x400, 720x480, 720x576
- SVGA: 800x600
- XGA: 1024x768
- SXGA: 1280x720, 1280x800, 1280x1024
- WXGA+: 1440x900, 1600x900
- WSXGA+: 1680x1050
- Full HD: 1920x1080, 1920x1200
- QHD: 2560x1440
- UHD: 3840x2160

### Presets / user settings
Standard presets: 27; user settings: 20

### Viewing adjustments
Tilt: 30° back, -5° forward; lift: 4.33" (110mm); swivel: +/-45°

### Rotating screen
Screen pivots 90 degrees from landscape to portrait

### Control features
Direct access (buttons on front) for power, menu, input source select and brightness

### USB hub
USB Hub: one USB 3.1 Type-C port, four USB 3.0 Type-A downstream ports

### Multimedia
Audio-out, optional sound bar supported

### Camera
None

### Multiple input
Support HDMI, DisplayPort, USB 3.1 Type-C

### Monitor connectors
- (1) 2*HDMI (2.0), digital, HDCP-compliant
- (2) DisplayPort (1.2), digital, HDCP-compliant
- (3) USB 3.1 Type-C

### Signal cables
(1) detachable, DisplayPort to DisplayPort, digital, 1.8 meter

### Mounting features
Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)

### Security
Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

### Ship group
Monitor, detachable stand, Quick start and safety poster, 1.8 meter USB Type-C to USB Type-C cable, 1.8 meter DP to DP cable, 1.8 meter HDMI to HDMI cable (NA only), 1.8 meter black power cord, 1.8 meter USB Type-C to USB Type-A cable

### Limited Warranty

### Accessories
Kensington MicroSaver Cable Lock 73P2582
Kensington Twin Head Cable Lock 45K1620
Lenovo Security Cable Lock 57Y4303

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
## SPECIFICATIONS

### DISPLAY

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Size</td>
<td>32&quot;</td>
</tr>
<tr>
<td>Panel Type</td>
<td>In-Plane Switching</td>
</tr>
<tr>
<td>Backlight</td>
<td>WLED</td>
</tr>
<tr>
<td>Resolution</td>
<td>3840 x 2160</td>
</tr>
<tr>
<td>Aspect Ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Arms</td>
<td>Yes</td>
</tr>
<tr>
<td>Screen Dimensions (W x H) (mm)</td>
<td>708.48 (H) x 398.52 (V)</td>
</tr>
<tr>
<td>Maximum Brightness (Typical)</td>
<td>300 cd/m²</td>
</tr>
<tr>
<td>Viewing Angle (H/V at CR 10:1)</td>
<td>178°/178°</td>
</tr>
<tr>
<td>Contrast Ratio (Typical)</td>
<td>1000:1</td>
</tr>
<tr>
<td>Dynamic Contrast Ratio</td>
<td>3M:1</td>
</tr>
<tr>
<td>Pixel Pitch (W x H) (mm)</td>
<td>0.1845 (H) x 0.1845 (V)</td>
</tr>
<tr>
<td>Dot/Pixel Per Inch (DP/PPi)</td>
<td>137</td>
</tr>
<tr>
<td>Color Gamut (1931)</td>
<td>99.5% AdobeRGB</td>
</tr>
<tr>
<td>Response Time (Typical)</td>
<td>6 ms</td>
</tr>
</tbody>
</table>

### ENVIRONMENTAL

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Operating</td>
<td>0°C - 40°C</td>
</tr>
<tr>
<td>Non-Operating</td>
<td>-20°C - 60°C</td>
</tr>
<tr>
<td>Humidity Operating</td>
<td>8% - 80%</td>
</tr>
<tr>
<td>Non-Operating</td>
<td>5% - 95%</td>
</tr>
<tr>
<td>Altitude Operating</td>
<td>0 ft - 5000 ft</td>
</tr>
<tr>
<td>Non-Operating</td>
<td>0 ft - 40,000 ft</td>
</tr>
<tr>
<td>Arsenic-Free Glass</td>
<td>Yes</td>
</tr>
<tr>
<td>PVC-Free</td>
<td>Yes</td>
</tr>
<tr>
<td>Mercury-Free</td>
<td>Yes</td>
</tr>
<tr>
<td>PCC % of Plastic Resins</td>
<td>85% with &gt;25 g Plastic Plastics</td>
</tr>
</tbody>
</table>

### POWER CONSUMPTION

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical</td>
<td>70 W</td>
</tr>
<tr>
<td>Maximum</td>
<td>200 W</td>
</tr>
<tr>
<td>Sleep-Mode</td>
<td>≤0.5 W</td>
</tr>
<tr>
<td>Switch Off-Mode</td>
<td>≤0.5 W</td>
</tr>
<tr>
<td>Power Supply</td>
<td>External</td>
</tr>
<tr>
<td>Power Voltage</td>
<td>90 VAC – 264 VAC</td>
</tr>
<tr>
<td>Voltage Dynamic Frequency</td>
<td>47 Hz – 63 Hz</td>
</tr>
</tbody>
</table>

### SIGNAL INPUT

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video Input Signals</td>
<td>2 x HDMI™ 2.0 + DisplayPort™, 1.2 x Thunderbolt™ 3.0-In + Thunderbolt™ 3.0-Out</td>
</tr>
<tr>
<td>Video Cables Supplied</td>
<td>HDMI™, DisplayPort™, Thunderbolt™ 3.0</td>
</tr>
<tr>
<td>Video Cable Length</td>
<td>2 m for Thunderbolt™, 1.8 m for HDMI™ and DisplayPort™</td>
</tr>
<tr>
<td>USB Hub</td>
<td>Yes (4 x Downstream, 1 x BC)</td>
</tr>
<tr>
<td>USB Cable Supplied</td>
<td>Yes (USB Type-A to Type-B)</td>
</tr>
<tr>
<td>Audio-Out</td>
<td>Yes (3.5 mm)</td>
</tr>
</tbody>
</table>

### SIGNAL INTERFACE / PERFORMANCE

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal Frequency</td>
<td>30 kHz – 160 kHz</td>
</tr>
<tr>
<td>Vertical Frequency</td>
<td>23 Hz – 80 Hz</td>
</tr>
<tr>
<td>Native Resolution</td>
<td>3840 x 2160</td>
</tr>
<tr>
<td>Maximum Pixel Clock Speed /</td>
<td>HDMI™ 600 MHz</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>Thunderbolt™ 10 Gbps</td>
</tr>
<tr>
<td>Preset / User</td>
<td>28 / 20</td>
</tr>
<tr>
<td>OSD Buttons</td>
<td>5 Buttons</td>
</tr>
<tr>
<td>OSD Languages</td>
<td>English, French, German, Spanish, Italian, Japanese, Simplified Chinese, Russian</td>
</tr>
</tbody>
</table>

### MECHANICAL

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tilt Angle (Front / Back)</td>
<td>-5° / 22°</td>
</tr>
<tr>
<td>Swivel Angle (Left / Right)</td>
<td>45° / 45°</td>
</tr>
<tr>
<td>Lift (mm)</td>
<td>110</td>
</tr>
<tr>
<td>(CW / CCW)</td>
<td>90° / 90°</td>
</tr>
<tr>
<td>VESA® Mount (mm)</td>
<td>100 x 100</td>
</tr>
<tr>
<td>Kensington® Lock Slot</td>
<td>Yes</td>
</tr>
<tr>
<td>Cable Management</td>
<td>Yes</td>
</tr>
<tr>
<td>Bezel Color</td>
<td>Raven Black</td>
</tr>
<tr>
<td>Bezel Width</td>
<td>2 / 0.08&quot;</td>
</tr>
<tr>
<td>Top (mm / inches)</td>
<td>23.8 / 0.94&quot;</td>
</tr>
<tr>
<td>Sides (mm / inches)</td>
<td>2 / 0.08&quot;</td>
</tr>
</tbody>
</table>

### DIMENSIONS (W x D x H)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size Packed</td>
<td>844 x 228 x 528</td>
</tr>
<tr>
<td>Size Unpacked with Stand</td>
<td>33.23&quot; x 8.98&quot; x 20.79&quot;</td>
</tr>
<tr>
<td>Size Unpacked without Stand</td>
<td>(Monitor Head Only) 726.7 x 350 x 497.8</td>
</tr>
<tr>
<td>Weight</td>
<td>Starting at 29.32 lbs (13.3 kg)</td>
</tr>
<tr>
<td>Weight Unpacked</td>
<td>Starting at 22.05 lbs (10 kg)</td>
</tr>
</tbody>
</table>

### SIGNAL INTERFACE / PERFORMANCE

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
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<td>5 Buttons</td>
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### MECHANICAL

<table>
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<th>Value</th>
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</tr>
<tr>
<td>Swivel Angle (Left / Right)</td>
<td>45° / 45°</td>
</tr>
<tr>
<td>Lift (mm)</td>
<td>110</td>
</tr>
<tr>
<td>(CW / CCW)</td>
<td>90° / 90°</td>
</tr>
<tr>
<td>VESA® Mount (mm)</td>
<td>100 x 100</td>
</tr>
<tr>
<td>Kensington® Lock Slot</td>
<td>Yes</td>
</tr>
<tr>
<td>Cable Management</td>
<td>Yes</td>
</tr>
<tr>
<td>Bezel Color</td>
<td>Raven Black</td>
</tr>
<tr>
<td>Bezel Width</td>
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<tr>
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<td>23.8 / 0.94&quot;</td>
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<tr>
<td>Sides (mm / inches)</td>
<td>2 / 0.08&quot;</td>
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</tbody>
</table>

### COMPLIANCE

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPEAT™</td>
<td>Gold</td>
</tr>
<tr>
<td>ENERGY STAR® Rating</td>
<td>7.0</td>
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<tr>
<td>TCO</td>
<td>TCO 7.0 / TCO Edge 2.0</td>
</tr>
<tr>
<td>Windows Certification</td>
<td>Windows 7 / Windows 10</td>
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<tr>
<td>China Energy Efficiency Standard</td>
<td>Tier 2</td>
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</table>

### WARRANTY AND AVAILABILITY

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Warranty</td>
<td>3 Years</td>
</tr>
<tr>
<td>Geography Availability</td>
<td>WW</td>
</tr>
</tbody>
</table>
# Lenovo ThinkVision Pro2820 Wide

**Name**
Pro2820 Wide Flat Panel Monitor

**Case color**
Black

**Type-model**
60FCR6US / 60FCR6EU

**Panel**
TFT-LCD, with wide viewing angle (WVA) technology, White LED backlight

**Viewable image size**
28” (711mm) diagonal

**Max view area (W x H)**
24.44” x 13.44” (620.9mm x 341.3mm)

**Optimum resolution**
1920x1080

**Max pixel rate**
205MHz (VGA); 165MHz(DP/ HDMI); 149MHz (MHL)

**Frequency**
Supports 1920 x 1080 @ 60Hz

**Aspect ratio**
16:9

**Pixel pitch (mm)**
0.32 x 0.32mm

**Brightness**
300 nits or cd/m² (typical)

**Contrast ratio**
3000:1 (typical)

**Pixel response time**
6.5ms

**Color gamut**
72%

**Viewing angle at 10:1 CR**
178° horizontal, 178° vertical

**Stand**
Tilt, swivel, and height adjustable stand

**Bezel width**
Sides: 0.86” (21.85mm)

**Dimensions**

- (hxWxD, excluding stand) 443.3mm H x 665.9mm W x 58.2mm D
- (hxWxD, including stand) 443.3mm H x 665.9mm W x 289.9mm D

**Power supply**
60 watts typical, 90 watts maximum (with USB), 66 watts maximum, 95 watts maximum (with USB), <1.2 watts sleep/off, <0.5 watts switch off

**Weight**
17.84 lb; 8.11kg (including stand)

**Limited warranty**
3 year (includes backlight)

**Available date**
September 2014

**VESA-compliant**
VESAC DDC2B/C1

**Power management**
ENERGY STAR 6.0

**Ergonomics**
ISO 9241-307

**Emission standards**
FCC Class B

**Environmental**
TCO Displays 6.0, TCO Certified Edge 1.2, RoHS, ENERGY STAR, EPEAT® Gold rating, ULE Gold

**Presets / user settings**
Standard presets: 17; user settings: 17

**Viewing adjustments**
Tilt: 25° back, -5° forward; lift: 4.3” (110mm); swivel: ±/45°

**Rotating screen**
Screen pivots 90 degrees from landscape to portrait

**On screen display**
Support VGA, HDMI, DisplayPort, MHL connections (Mobile High-definition Link)

**Control features**
Direct access (touch buttons on front) for automatic image setup, input switch, and brightness

**USB hub**
USB Hub: one USB 3.0 upstream port, four USB 3.0 downstream ports

**Multimedia**
None

**Camera**
None

**Multiple input**
Support VGA, HDMI, DisplayPort, MHL connections (Mobile High-definition Link)

**Monitor connectors**
(1) VGA 15-pin D-shell, analog
(2) HDMI (1.4), digital, HDCP-compliant
(3) DisplayPort (1.2), digital, HDCP-compliant

**Signal cables**
(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter
(2) detachable, DisplayPort at each end, digital, 1.8 meter

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

**Security**
Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**
Monitor, detachable stand, Quick start and safety poster, 1.8 meter DisplayPort cable, 1.8 meter VGA cable, 1.8 meter USB 3.0 cable, 1.8 meter black power cord

### Limited Warranty


### Accessories

- Kensington MicroSaver Cable Lock
- Kensington Twin Head Cable Lock
- Lenovo Security Cable Lock

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

**Lenovo**
August 2014
### ThinkVision® T27i-10

#### DISPLAY
- **Panel Size**: 27 inch
- **Screen Dimensions (H x V) (mm)**: 597.89 (H) × 336.31 (V)
- **Panel Type**: In-Plane Switching
- **Backlight**: WLED
- **Aspect Ratio**: 16:9
- **Resolution**: 1920 x 1080
- **Pixel Pitch (H x V) (mm)**: 0.3110 × 0.3110
- **Viewing angle (H x V)**: 178°/178°
- **Response Time (gray to gray)**: 4 ms (extreme mode), 6 ms (normal mode)
- **Contrast Ratio (typical)**: 1000:1
- **Dynamic Contrast Ratio (typical)**: 3M:1
- **Color Gamut NTSC (CIE 1931)**: 72%
- **Color Support**: 16.7M

#### USB Hub
- **Yes**
- **1 x USB 3.0 (Upstream)**
- **4 x USB 3.0 (Downstream, incl. 1BC)**

#### Cable Length
- **1.8 m**

#### Audio Out
- **Yes (3.5 mm)**

#### Power Consumption
- **22W (Typical)** / **58W (max) at On mode**;
- **<0.5W at Sleep mode**;
- **<0.3W at Switch off mode**

#### SPECIAL FEATURES
- **Anti-Glare**: Yes
- **Thin Client Support (Tiny)**
- **Yes**
- **(by Tiny Clamp Bracket Kit+VESA mount PN:4XF0N82412+ PN:4XF0N03161)**

#### MECHANICAL
- **Tilt Angle (front/back)**: -5°/+30°
- **Swivel Angle (left/right)**: -45°/+45°
- **Lift (Max range)**: 110 mm
- **Pivot**: -90°/+90°
- **VESA Mount**: Yes (100 mm)
- **Kensington™ Lock Slot**: Yes
- **Cable Management**: Yes
- **Bezel Color**: Raven Black
- **Bezel Width (Side)**: 2.0 mm

#### DIMENSIONS
- **Size Packed (D x H x W) (mm/inch)**: 187 x 455 x 715 mm / 7.362 x 17.913 x 28.15 inch
- **Size Unpacked w/stand (D x H x W) (mm/inch)**
  - **(Lowest Position)**: 269.8 x 403.3 x 611.9 mm / 10.62 x 15.88 x 24.09 inch
  - **(Highest Position)**: 269.8 x 513.3 x 611.9 mm / 10.62 x 20.21 x 24.09 inch
- **Size Unpacked w/o stand (D x H x W) (mm/inch)**
  - **(Head Only)**: 49.9 x 366.5 x 611.9 mm / 1.96 x 14.43 x 24.09 inch
- **Weight Packed (kg/lbs.)**: 9.32kg / 20.55 lbs.
- **Weight Unpacked (kg/lbs.)**: 6.55kg / 14.44 lbs.
- **Weight (Monitor Head Only) (kg/lbs.)**: 4.60kg / 10.14 lbs.

#### WHAT’S IN THE BOX
- Monitor with stand
- 1 x Power cable
- 1 x DP-DP cable
- 1 x HDMI cable (NA only)
- 1 x USB 3.0 cable
- Quick setup guide

#### CERTIFICATIONS
- **ENERGY STAR Rating**: 7.0
- **CCC**: Yes
- **TCO**: 7.0
- **EPEAT™**: Gold
- **ULE**: Gold
- **Windows Certification**: Windows 7, Windows 10
- **China Energy Efficiency Standard**: Tier 2
- **Ambient Operating Temperature**: 0°C to 40°C
- **Eye Comfort Certification**: Yes

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**Lenovo ThinkVision X1**

**Features**
- 27-inch IPS LED backlit monitor with speaker
- Supports 3840x2160 resolution
- 5-Ports USB hub, support USB Type-C
- 3watts x 2 stereo speakers
- Microsoft Windows 7 certified
- Microsoft Windows 10 certified

**Product Specifications Reference (PSREF)**

<table>
<thead>
<tr>
<th>Name</th>
<th>X1 Wide Flat Panel Monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case color</td>
<td>Black</td>
</tr>
<tr>
<td>Type-model</td>
<td>60E2GAR1US / 60E2GAT1US / 60E2GAT1EU</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, IPS (In-Plane Switching), White LED backlight</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>27&quot; (684.7mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>23.49&quot; x 13.21&quot; (596.7mm x 335.7mm)</td>
</tr>
<tr>
<td>Optimum resolution</td>
<td>3840x2160</td>
</tr>
<tr>
<td>Max pixel rate</td>
<td>600MHz</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.16 x 0.16mm</td>
</tr>
<tr>
<td>Dot/Pixel per inch</td>
<td>163 dpi</td>
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<tr>
<td>Brightness</td>
<td>300 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1300:1 (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>6ms</td>
</tr>
<tr>
<td>Color gamut</td>
<td>99%</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>178° horizontal, 178° vertical</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt stand</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Sides: 0.088&quot; (2.23mm)</td>
</tr>
<tr>
<td>Dimensions (HxWxD, including stand)</td>
<td>491.4mm H x 614.5mm W x 270.0mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>40 watts typical, 130 watts maximum (with USB), &lt;0.5 watts sleep/offset, &lt;0.5 watts switch off</td>
</tr>
<tr>
<td>Weight</td>
<td>14.11 lb; 6.60kg (including stand)</td>
</tr>
<tr>
<td>Limited warranty*</td>
<td>3 year</td>
</tr>
<tr>
<td>Available date</td>
<td>March 2016</td>
</tr>
</tbody>
</table>

**VESA-compliant**
- VESA DDC2B/Ci

**Power management**
- ENERGY STAR 7.0

**Ergonomics**
- ISO 9241-307

**Emission standards**
- FCC Class B
- TCO Displays 7.0, RoHS, EPEAT™ Silver rating, ULE Gold

**Presets / user settings**
- Standard presets: 20; user settings: 20

**Viewing adjustments**
- Tilt: 22° back, -5° forward;
- None

**On screen display**
- On screen display with digital user controls (8 languages)
- Direct access (touch buttons on front) for menu, mute, volume up/down, and brightness

**USB hub**
- USB Hub: one USB 3.1 Type-C upstream port, four USB 3.0 Type-A downstream ports

**Multimedia**
- Integrated stereo speakers (3 watts x 2), built-in microphone
- Full HD camera with LED light

**Camera**
- Support HDMI, DisplayPort
- (1) HDMI (1.4), digital, HDCP-compliant
- (2) DisplayPort (1.2), digital, HDCP-compliant

**Multiple input**
- (1) detachable, HDMI at each end, digital, 1.8 meter
- (2) detachable, DisplayPort at each end, digital, 1.8 meter

**Mounting features**
- Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)
- Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**
- Monitor, detachable stand, Quick start and safety poster, 1.8 meter DisplayPort cable, 1.8 meter HDMI cable, 1.8 meter USB Type-C cable, 1.8 meter USB Type-C to Type-A cable, 1.8 meter black power cord, mini DP to DP adapter, power adapter (135W)

**Limited Warranty**

**Accessories**
- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620
- Lenovo Security Cable Lock 57Y4303
- See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)
- See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

See footnotes for important warranty information © Lenovo (X1) March 2016
## SPECIFICATIONS

### DISPLAY

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Size</td>
<td>27”</td>
</tr>
<tr>
<td>Panel Type</td>
<td>In-Plane Switching</td>
</tr>
<tr>
<td>Backlight</td>
<td>Yes</td>
</tr>
<tr>
<td>Resolution</td>
<td>3840 (H) x 2160 (V)</td>
</tr>
<tr>
<td>Aspect Ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Anti-Glare</td>
<td>Yes</td>
</tr>
<tr>
<td>Screen Dimensions (W x H) (mm)</td>
<td>596.7 (H) x 335.7 (V)</td>
</tr>
<tr>
<td>Maximum Brightness (Typical)</td>
<td>350 cd/m²</td>
</tr>
<tr>
<td>Viewing Angle (H/V at CR 10:1)</td>
<td>178°* / 178°*</td>
</tr>
<tr>
<td>Contrast Ratio (Typical)</td>
<td>1000:1</td>
</tr>
<tr>
<td>Dynamic Contrast Ratio</td>
<td>3:1</td>
</tr>
<tr>
<td>Pixel Pitch (W x H) (mm)</td>
<td>0.1554 x 0.1554</td>
</tr>
<tr>
<td>Dot/Pixel Per Inch (DP/PPI)</td>
<td>163</td>
</tr>
<tr>
<td>Color Gamut (CIE 1931)</td>
<td>99% sRGB</td>
</tr>
<tr>
<td>Response Time (Extreme/Typical/Off)</td>
<td>4/6/14 ms (G-to-G)</td>
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</table>

### POWER CONSUMPTION

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<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical</td>
<td>65 W</td>
</tr>
<tr>
<td>Maximum</td>
<td>135 W</td>
</tr>
<tr>
<td>Sleep-Mode</td>
<td>0.5 W</td>
</tr>
<tr>
<td>Switch Off-Mode</td>
<td>0.5 W</td>
</tr>
<tr>
<td>Power Supply</td>
<td>External</td>
</tr>
<tr>
<td>Power Voltage</td>
<td>90 VAC – 264 VAC</td>
</tr>
<tr>
<td>Voltage Dynamic Frequency</td>
<td>47 Hz – 63 Hz</td>
</tr>
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### SIGNAL INPUT

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video Input Signals</td>
<td>DisplayPort™ 1.2 + HDMI™ 2.0 + Thunderbolt™ 3</td>
</tr>
<tr>
<td>Video Cables Supplied</td>
<td>HDMI™ + USB Type-C™</td>
</tr>
<tr>
<td>Video Cable Length</td>
<td>1.8 m</td>
</tr>
<tr>
<td>USB Hub</td>
<td>Yes (4 x USB 3.0)</td>
</tr>
<tr>
<td>USB Cable Supplied</td>
<td>USB Type-A to C</td>
</tr>
<tr>
<td>Audio-Out</td>
<td>Yes (3.5 mm)</td>
</tr>
</tbody>
</table>

### SIGNAL INTERFACE / PERFORMANCE

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal Frequency</td>
<td>30 kHz – 60 kHz</td>
</tr>
<tr>
<td>Vertical Frequency</td>
<td>23 Hz – 80 Hz</td>
</tr>
<tr>
<td>Native Resolution</td>
<td>3840 x 2160</td>
</tr>
<tr>
<td>Maximum Pixel Clock Speed/ Bandwidth</td>
<td>20 Gbps</td>
</tr>
<tr>
<td>Default Color Temperature</td>
<td>65000K</td>
</tr>
<tr>
<td>Preset Modes</td>
<td>2 Button</td>
</tr>
<tr>
<td>OSD Buttons</td>
<td>2 Buttons + Tracking Point English, French, Italian, German, Spanish, Japanese, Chinese, Russian</td>
</tr>
<tr>
<td>OSD Languages</td>
<td>24</td>
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### MECHANICAL

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Tilt Angle (Front / Back)</td>
<td>-5° / 30°</td>
</tr>
<tr>
<td>Swivel Angle (Left / Right)</td>
<td>N/A</td>
</tr>
<tr>
<td>Lift (mm)</td>
<td>N/A</td>
</tr>
<tr>
<td>Pivot</td>
<td>N/A</td>
</tr>
<tr>
<td>VESA® Mount (mm)</td>
<td>N/A</td>
</tr>
<tr>
<td>Kensington® Lock Slot</td>
<td>Yes</td>
</tr>
<tr>
<td>Cable Management</td>
<td>Yes</td>
</tr>
<tr>
<td>Bezel Color</td>
<td>N/A</td>
</tr>
<tr>
<td>Bezel Width</td>
<td>N/A</td>
</tr>
<tr>
<td>Top (mm / inches)</td>
<td>N/A</td>
</tr>
<tr>
<td>Bottom (mm / inches)</td>
<td>1.85 / 0.07”</td>
</tr>
<tr>
<td>Sides (mm / inches)</td>
<td>N/A</td>
</tr>
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### ENVIRONMENTAL

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>Operating: 0°C – 45°C Non-Operating: -20°C – 60°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>Operating: 8% – 80% Non-Operating: 5% – 95%</td>
</tr>
<tr>
<td>Altitude</td>
<td>Operating: 16,000 ft Non-Operating: 40,000 ft</td>
</tr>
<tr>
<td>Arsenic-Free Glass</td>
<td>Yes</td>
</tr>
<tr>
<td>PVC-Free</td>
<td>N/A</td>
</tr>
<tr>
<td>Mercury-Free</td>
<td>Yes</td>
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<tr>
<td>PCC % of Plastic Resins</td>
<td>25%</td>
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### DIMENSIONS (W x D x H)

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size Packed</td>
<td>718 x 140 x 470 (mm)</td>
</tr>
<tr>
<td>Size Unpacked with Stand</td>
<td>28.27” x 5.51” x 18.5” (inches)</td>
</tr>
<tr>
<td>Size Unpacked without Stand</td>
<td>609.74 x 234.81 x 123.05 (mm)</td>
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<tr>
<td>Size Head Only</td>
<td>24” x 9.24” x 4.84” (inches)</td>
</tr>
<tr>
<td>Distance from Table to Panel</td>
<td>24” x 12.9” x 13.85” (inches)</td>
</tr>
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### SIGNAL OUTPUT

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio-Out</td>
<td>Yes (3.5 mm)</td>
</tr>
</tbody>
</table>

### MECHANICAL

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tilt Angle (Front / Back)</td>
<td>-5° / 30°</td>
</tr>
<tr>
<td>Swivel Angle (Left / Right)</td>
<td>N/A</td>
</tr>
<tr>
<td>Lift (mm)</td>
<td>N/A</td>
</tr>
<tr>
<td>Pivot</td>
<td>N/A</td>
</tr>
<tr>
<td>VESA® Mount (mm)</td>
<td>N/A</td>
</tr>
<tr>
<td>Kensington® Lock Slot</td>
<td>Yes</td>
</tr>
<tr>
<td>Cable Management</td>
<td>Yes</td>
</tr>
<tr>
<td>Bezel Color</td>
<td>N/A</td>
</tr>
<tr>
<td>Bezel Width</td>
<td>N/A</td>
</tr>
<tr>
<td>Top (mm / inches)</td>
<td>N/A</td>
</tr>
<tr>
<td>Bottom (mm / inches)</td>
<td>1.85 / 0.07”</td>
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<tr>
<td>Sides (mm / inches)</td>
<td>N/A</td>
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### COMPLIANCE

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<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPEAT™</td>
<td>Silver</td>
</tr>
<tr>
<td>ENERGY STAR® Rating</td>
<td>7.0</td>
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<tr>
<td>ULE</td>
<td>Silver</td>
</tr>
<tr>
<td>TCO®</td>
<td>7.0</td>
</tr>
<tr>
<td>RoHS (EU 2002/95/EC)</td>
<td>Yes</td>
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<tr>
<td>Windows Certification</td>
<td>Windows 7 / Windows 10</td>
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<tr>
<td>China Energy Efficiency Standard</td>
<td>Tier 2</td>
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### WARRANTY AND AVAILABILITY

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Warranty</td>
<td>3 Years</td>
</tr>
<tr>
<td>Geographical Availability</td>
<td>WW</td>
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</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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