**ThinkPad T480 Platform Specifications**

**Processor**

<table>
<thead>
<tr>
<th>Number</th>
<th>Cores</th>
<th>Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<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>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Number</th>
<th>Cores</th>
<th>Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>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>6MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>5-8350U</td>
<td>4</td>
<td>8</td>
<td>1.7 GHz</td>
<td>3.6 GHz</td>
<td>6MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>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>7-8650U</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 (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: 4096x2160@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
* System clocks down for processors with lower memory controller

**Display**

- 14.0" (355mn) HD (1366x768), anti-glare, LED backlight, 720p camera with ThinkShutter camera privacy, fixed focus
- 15.6" FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle
- 14.0" (355mn) QWXD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle

**Multi-touch (opt)**

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

**Storage**

- System has one HDD slot or one M.2 2280 slot exclusively for storage
- 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. x86 SSD)
- Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4
- Some: 128GB M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, in WWAN slot as 3rd Storage, mutually exclusive with WWAN

**Optane™ memory**

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

**Ethernet**

- 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

**WLAN (optional)**

- One of the following, configurable by model (mutually exclusive with Intel Optane memory):
  - Wireless WAN upgradable
  - Integrated Mobile Broadband 4G LTE, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card
- For non-WWAN model, it means the model is NOT Upgradable

**SIM card (opt)**

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

**Dimensions & Weight**

<table>
<thead>
<tr>
<th>Processor</th>
<th>WxDxH:</th>
<th>Weight:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discrete model</td>
<td>13.25&quot; x 9.15&quot; x 0.79&quot;; 336.6mm x 232.5mm x 19.95mm</td>
<td>3.68 lb / 1.67 kg</td>
</tr>
<tr>
<td>Integrated model</td>
<td>13.25&quot; x 9.15&quot; x 0.79&quot;; 336.6mm x 232.5mm x 19.95mm</td>
<td>3.49 lb / 1.58 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Processor</th>
<th>Models</th>
<th>Weight:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discrete model</td>
<td>24Wh or 24Wh + 48Wh</td>
<td>3.68 lb / 1.67 kg</td>
</tr>
<tr>
<td>Integrated model</td>
<td>48Wh, 72Wh, or 24Wh + 48Wh / 72Wh</td>
<td>3.92 lb / 1.78 kg</td>
</tr>
</tbody>
</table>

**Smart card reader**

- Optional: Smart card reader

**Media reader**

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

**Ports**

- Two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort), one USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of PD and DP), HDMI 1.4b, Ethernet (RJ-45), nano-SIM card slot (WWAN models), headphone / microphone combo jack, optional smart card reader, 4-in-1 media reader (MMC, SD, SDHC, SDXC), side docking connector, security keyhole
* Depending on many factors, actual data transfer speed may be lower than theoretical speed

**Monitor cable (optional)**

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

**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® ALC2397 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone (optional for special bid model), headphone / microphone combo jack

**Audio support**

- HD Audio, Realtek® ALC2397 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone (optional for special bid model), headphone / microphone combo 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 (may be disabled in some region)

**Security chip**

- Intel vPro Technology

**Fingerprint reader**

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

**NFRC (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)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Battery Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>24Wh</td>
<td>7.2 hr</td>
</tr>
<tr>
<td>48Wh</td>
<td>14.4 hr</td>
</tr>
<tr>
<td>72Wh</td>
<td>21.8 hr</td>
</tr>
<tr>
<td>24Wh+</td>
<td>14.4 hr</td>
</tr>
<tr>
<td>48Wh+</td>
<td>21.8 hr</td>
</tr>
<tr>
<td>72Wh+</td>
<td>29.0 hr</td>
</tr>
</tbody>
</table>

**Operating system**

- Optional: Windows® 10 Home 64 or Windows 10 Pro 64

**Limited warranty**

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

**Mil-Spec test**

- MIL-STD-810G military testing

**Environmental**

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

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

Lenovo
March 2020