ThinkPad T470 Platform Specifications

Product Specifications Reference (PSREF)

**Processor**

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

**Graphics**

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

**Chipset Memory**

Intel SoC (System on Chip) platform

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

* 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

**Multi-touch (opt)**

On-cell touch, supports 10-finger gesture (FHD IPS panel with PPS cover 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 2192-V (Jacksonville)

vPro model: Intel Ethernet Connection 2192-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 4.1, wireless, integrated in Wi-Fi + Bluetooth combo adapter

* Intel 8265ac / 18265acc 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, Intel XMM™ 7160 (Fibocom L831-EAU), M.2 card (EMEA only)
- Micro-SIM card slot, opt Verizon LTE (US) or Lenovo™ Connect (EMEA) SIM card

**Volume**

### Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Width</th>
<th>Depth</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-cell</td>
<td>336.6mm</td>
<td>232.5mm</td>
<td>19.95mm</td>
</tr>
<tr>
<td>3 + 3-cell</td>
<td>336.6mm</td>
<td>232.5mm</td>
<td>19.95mm</td>
</tr>
<tr>
<td>6-cell</td>
<td>336.6mm</td>
<td>232.5mm</td>
<td>19.95mm</td>
</tr>
<tr>
<td>3 + 6-cell</td>
<td>336.6mm</td>
<td>232.5mm</td>
<td>19.95mm</td>
</tr>
</tbody>
</table>

**Weight**

<table>
<thead>
<tr>
<th>Model</th>
<th>Li-Polymer 3-cell (24Wh)</th>
<th>Li-Polymer 3-cell (24Wh)</th>
<th>Li-Ion 6-cell (48Wh or 72Wh)</th>
<th>Li-Ion 6-cell (48Wh or 72Wh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-cell</td>
<td>3.49 lb / 1.65 kg</td>
<td>4.35 lb / 1.85 kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 + 3-cell</td>
<td>3.63 lb / 1.65 kg</td>
<td>4.35 lb / 1.85 kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6-cell</td>
<td>3.92 lb / 1.78 kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 + 6-cell</td>
<td>3.92 lb / 1.78 kg</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Smart card reader**

Optional: Smart card reader

**Media reader**

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

**Ports**

USB 3.1 Type-C Gen 2 / Thunderbolt 3 (w/ the function of Power Delivery and DP), HDMI 1.4b, Ethernet (RJ-45), Dock connector

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

**WiGig dock (opt)**

ThinkPad WiGig dock

**Monitor cable**

Optional: Lenovo USB-C to VGA Adapter

**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

Discrete TPM 2.0, TCG Certified

**Security chip**

Intel vPro Technology

**Fingerprint reader**

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

**Near Field Communication**

Optional: NFC (optional)

**Internal battery**

Integrated Li-Polymer 3-cell (24Wh)

**External battery**

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

**AC adapter**

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

**Windows® 7 Professional 64 preinstalled**

Some: Windows 10 Home 64

Some: Windows 10 Pro 64

Some: Lenovo Solution Center

Some: Lenovo PowerEngage

Some: ThinkVantage Product Recovery

Some: ThinkVantage System Update

Some: Adobe Reader

Some: Microsoft Office preloaded;

Some: Lenovo Companion

Some: Lenovo LiveSafe (30-day trial)

Some: 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

**Environment**

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

**April 2019**

Lenovo