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>
</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>
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<td>3MB</td>
<td>DDR4-2133</td>
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</table>

**Graphics**

Intel HD Graphics 620 or Intel UHD Graphics 620 in processor only or Intel HD Graphics 620 in processor and NVIDIA® GeForce® MX150, 2GB GDDR5 memory

**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, 1000:1 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

* System clocks down for processors with lower memory controller

**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, High 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**

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

Optical

None

**Ethernet**

Non-vPro model: Intel Ethernet Connection 212-V (Jacksonville)

vPro model: Intel Ethernet Connection 212-LM (Jacksonville)

**WLAN + Bluetooth**

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

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

**WWAN (optional)**

One of the following, configurable by model:

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

**SIM card (optional)**

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

**Weight**

Integrated model: starting at 4.29 lb / 1.95 kg

Discrete model: starting at 4.39 lb / 1.99 kg

**Display cover**

Glass-Fiber Reinforced Plastic (PPS);

Bottom: Glass-Fiber Reinforced Plastic

**Smart card reader**

Optional: Smart card reader

**Media reader**

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

**Ports**

2 USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort), one USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of PD and DP), HDMI 1.4b, Ethernet (RJ-45), nano-SIM card slot (WWAN models), headphone / microphone combo jack, optional smart card reader, 4-in-1 reader (MMC, SD, SDHC, SDXC), side docking connector, security keyhole

**Audio support**

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

**Camera**

One of the following, configurable by model:

* HD720p camera with ThinkShutter camera privacy, 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**

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

**Security**

Discrete TPM 2.0, TCG Certified

Intel vPro Technology

**Fingerprint reader**

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

**Battery**

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

**Max battery life (MobileMark® 2014)**

Models

<table>
<thead>
<tr>
<th>24Wh</th>
<th>48Wh</th>
<th>72Wh</th>
<th>32Wh + 24Wh</th>
<th>32Wh + 48Wh</th>
<th>32Wh + 72Wh</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.8</td>
<td>12.5</td>
<td>18.1</td>
<td>20.3</td>
<td>26.1</td>
<td></td>
</tr>
</tbody>
</table>

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

**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 testing

**Environment**

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

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

Lenovo

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