### ThinkPad T470s Platform Specifications

**Product Specifications Reference (PSREF)**

**ThinkPad T470s**

#### Processor

**6th Generation Intel® Core™ i5 / i7 Processor**

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>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 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>
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<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i5-7200U</td>
<td>2</td>
<td>4</td>
<td>2.5 GHz</td>
<td>3.1 GHz</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 520</td>
</tr>
<tr>
<td>i5-7300U</td>
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<td>4</td>
<td>2.6 GHz</td>
<td>3.5 GHz</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 520</td>
</tr>
<tr>
<td>7-7500U</td>
<td>2</td>
<td>4</td>
<td>2.7 GHz</td>
<td>3.5 GHz</td>
<td>4MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>7-7600U</td>
<td>2</td>
<td>4</td>
<td>2.6 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;
- supports external digital monitor via HDMI or USB Type-C;
- supports three independent displays;
- Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@24Hz (HDMI)

#### Chipset

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

- 20GB or 24GB max RAM / 2400MHz DDR4, dual-channel capable, 4GB or 8GB memory soldered to system board, one DDR4 SO-DIMM socket
- System clocks down for processors with lower memory controller

**Memory**

- 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, 701:1 contrast ratio, 160° viewing angle

**Some:** 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 701:1 contrast ratio, 160° viewing angle

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

#### Multi-touch (opt)

#### 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 3.0 x 4, 32GB/s (e.g. xxxGB 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:**

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

#### WWAN (opt)

**One of the following, configurable by model:**

- Wireless WAN upgradeable
- Integrated Mobile Broadband 4G LTE-A, Qualcomm™ Snapdragon™ X7 LTE-A (Sierra Wireless EM7455), M.2 card
- Micro-SIM card slot, opt Verizon LTE (US) or Lenovo™ Connect (EMEA) SIM card

#### SIM card (opt)

#### Ports

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

#### Power and Battery

**Operating system:**

- One of the following, configurable by model:
  - Windows 7 Professional 64 preinstalled
  - through downgrade rights in Windows 10 Pro 64
  - 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® 6.1; RoHS-compliant

**Dimensions:**

- WxDxH: 13.03" x 9.33" x 0.67-0.74"
- 331mm x 226.8mm x 16.9-18.8mm

**Weight:**

- Starting at 2.9 lb / 1.32 kg

**Case color:**

- Black or Silver

**Case material:**

- Magnesium

**Security:**

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

**Audio support:**

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

**Security chip:**

- Discrete TPM 2.0, TCG Certified
- Discrete TPM 2.0, TCG Certified

**Camera:**

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

**Camera (optional):**

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

**Fingerprint reader:**

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

**Fingerprint reader:**

- Near Field Communication

**AC adapter:**

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

**Battery life:**

- MobileMark 2014: up to 10.5 hr
- MobileMark 2014: up to 10.5 hr

**Max battery life:**

- MobileMark 2014: up to 10.5 hr
- MobileMark 2014: up to 10.5 hr

**Internal battery:**

- Front Li-Polymer 3-cell (23Wh) and rear Li-ion 3-cell (26Wh), both Integrated

**Near Field Communication:**

- Mi-Spec test
- MIL-STD-810G military testing

**Lenovo:**

- April 2019