ThinkPad T470p Platform Specifications

Product Specifications Reference (PSREF)

Lenovo
March 2018

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 Memory Types</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i5-7300HQ</td>
<td>4</td>
<td>4</td>
<td>2.5 GHz</td>
<td>3.5 GHz</td>
<td>6MB</td>
<td>DDR4-2400</td>
<td>Intel HD Graphics 630</td>
</tr>
<tr>
<td>i5-7440HQ</td>
<td>4</td>
<td>4</td>
<td>2.8 GHz</td>
<td>3.8 GHz</td>
<td>6MB</td>
<td>DDR4-2400</td>
<td>Intel HD Graphics 630</td>
</tr>
<tr>
<td>i7-7700HQ</td>
<td>4</td>
<td>4</td>
<td>2.9 GHz</td>
<td>3.9 GHz</td>
<td>8MB</td>
<td>DDR4-2400</td>
<td>Intel HD Graphics 630</td>
</tr>
<tr>
<td>i7-7820HQ</td>
<td>8</td>
<td>8</td>
<td>2.8 GHz</td>
<td>3.8 GHz</td>
<td>6MB</td>
<td>DDR4-2400</td>
<td>Intel HD Graphics 630</td>
</tr>
</tbody>
</table>

Graphics

- Intel HD Graphics 630 in processor only, or
- NVIDIA GeForce® 940MX, 2GB 2.5GHz GDDR5 memory;
- supports external digital monitor via HDMI or Mini DisplayPort;
- supports three independent displays;

Max resolution: 4096x2160@24Hz (HDMI)

Chipset

Mobile Intel QM175 Chipset

Memory

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

Display

- 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: 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

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

 muttered with WWAN

WLAN

- One of the following, configurable by model:
  - Realtek® RTL8822BE, 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

- Bluetooth® 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter
  - * Intel 8265ac card support BT4.2 but is limited to BT4.1 by Windows OS

WWAN (optional)

- 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

Sim card (opt)

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

Dimensions

<table>
<thead>
<tr>
<th>WxDxH (FHD):</th>
<th>13.35” x 9.25” x 0.94”</th>
<th>339mm x 235mm x 24mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>WxDxH (WQHD):</td>
<td>13.35” x 9.25” x 0.96”</td>
<td>339mm x 235mm x 24mm</td>
</tr>
</tbody>
</table>

Weight

<table>
<thead>
<tr>
<th>Models</th>
<th>3-cell</th>
<th>6-cell</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.83 lb / 1.74 kg</td>
<td>4.16 lb / 1.89 kg</td>
</tr>
<tr>
<td></td>
<td>4.01 lb / 1.82 kg</td>
<td>4.33 lb / 1.96 kg</td>
</tr>
</tbody>
</table>

Case color

- Black
- Display cover: PC/ABS plastic;
- Bottom: Magnesium alloy

Smart card reader

- Optional

Media reader

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

Ports

- Three USB 3.1 Gen 1 (USB 3.0, one Always On), HDMI 1.4b, Mini DisplayPort 1.2a, Ethernet (RJ-45), Dock connector

Monitor cable (optional)

- MiniDP to DP:
  - Lenovo Mini-DisplayPort to DisplayPort Monitor Cable

Camera

- HD720p resolution, fixed focus
- HD Audio, Realtek ALC3268 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

- 6-row, spill-resistant, multimedia Fn keys, 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
- Intel vPro Technology

Fingerprint reader

- Touch style match on chip fingerprint reader on the keyboard bezel
- None

NFC

- None

Battery

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

MobileMark® 2014: 12.85 hr

AC adapter

- MobileMark® 2014:
  - 90W or 135W slim tip AC adapter

Preload

- Some: Windows® 10 Home 64
- Some: Windows 10 Pro 64
- 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® 6.1; RoHS-compliant

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