### ThinkPad P1 Platform Specifications

**Processor**  
8th Generation Intel® Core™ i5 / i7 Processor or Intel Xeon® E 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>i5-8400H</td>
<td>4</td>
<td>8</td>
<td>2.5 GHz</td>
<td>4.2 GHz</td>
<td>8MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>i7-8750H</td>
<td>4</td>
<td>8</td>
<td>2.2 GHz</td>
<td>4.1 GHz</td>
<td>9MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>i7-8850H</td>
<td>6</td>
<td>12</td>
<td>2.6 GHz</td>
<td>4.3 GHz</td>
<td>9MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>E-2176M</td>
<td>4</td>
<td>8</td>
<td>2.7 GHz</td>
<td>4.4 GHz</td>
<td>12MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics P630</td>
</tr>
</tbody>
</table>

**Graphics**  
Intel UHD Graphics 630 or P630 in processor and NVIDIA® Quadro® P1000 or P2000, 4GB GDDR5 memory; supports external digital monitor via HDMI or Thunderbolt®;

Up to 4 displays with 3 external monitors plus system LCD screen.

Max resolution: 5K@60Hz (Thunderbolt); 4K@60Hz (HDMI)

**Chipset**  
Mobile Intel CM246 Chipset

**Memory**  
4GB max / 2666MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, two DDR4 SO-DIMM sockets

**Display**  
Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, WVA, 300 nits, 16:9 aspect ratio, 72% gamut, 170° viewing angle

Some: 15.6" (396mm) UHD (3840x2160), anti-reflection, LED backlight, WVA, 400 nits, 16:9 aspect ratio, 1200:1 contrast ratio, 100% gamut, 170° viewing angle, multi-touch

**Multi-touch (opt) Pen (optional)**  
Capacitive-type multi-touch, supports 10-finger gesture (4K only)

**Storage**  
Up to two M.2 SSD; supports single sided M.2 2280 drives only

**RAID (optional)**  
RAID 0/1 support None

**Ethernet**  
Native Intel Ethernet Connection i219-V (Non-vPro) or i219-LM (vPro) via bundled or optional ThinkPad Ethernet Extension Cable

**WLAN Bluetooth™**  
Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card

Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

**WWAN**  
None

**Dimensions**  
WxDxH (non-touch): 14.24" x 9.67" x 0.72"; 361.8mm x 245.7mm x 18.4mm

WxDxH (multi-touch): 14.24" x 9.67" x 0.74"; 361.8mm x 245.7mm x 18.7mm

**Weight**  
Non-touch model: starting at 3.76 lb / 1.7 kg

Multi-touch model: starting at 4.06 lb / 1.8 kg

**Case color** Black

**Case material** Display cover: CFRP/GFIRP hybrid; Bottom: Aluminum alloy

**Battery**  
Integrated Li-ion 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

**Max battery life**  
Discrete mode: 7.36 hr; Hybrid mode: 13.87 hr

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

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

- Windows 10 Home 64
- Windows 10 Pro 64
- Windows 10 Pro 64 for Workstations

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

- 1-year depot repair service
- 1-year depot repair service with 2-year system board 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 testing

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

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