## ThinkPad P1 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>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>6</td>
<td>12</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>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 630</td>
</tr>
</tbody>
</table>

### Graphics

- Intel UHD Graphics 630 or P630 in processor and NVIDIA Quadro P1000 or P2000 Max-Q, 4GB GDDR5 memory; supports external digital monitor via HDMI or Thunderbolt; supports four independent displays: Max resolution: 5120x2880 @ 30Hz (Thunderbolt); 4096x2160 @ 60Hz (HDMI)

### Chipset

- Mobile Intel CM246 Chipset
- Up to 2 drives (two M.2 SSD)
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
- RAID 0/1 support

### Memory

- 64GB 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, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle
- Some: 15.6" (396mm) UHD (3840x2160), anti-glare, LED backlight, IPS, 400 nits, 16:9 aspect ratio, 1200:1 contrast ratio, 100% gamut, 170° viewing angle, multi-touch, multi-touch, anti-reflection (AR)

### Multi-touch (opt) Pen

- Capacitive-type multi-touch, supports 10-finger gesture (4K only)
- Supports pen accessory, please see the accessory compatibility for details

### Storage

- Up to 2 drives (two M.2 SSD)
- M.2 SSD / PCie NVMe, PCIe 3.0 x 4, 32Gb/s

### Optane™ memory

- None

### RAID (optional)

- RAID 0/1 support

### Ethernet

- Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via bundled or optional ThinkPad Ethernet Extension Cable

### WLAN

- 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

### SIM card

- None

### Dimensions

- WXxDXH (non-touch): 14.24" x 9.67" x 0.72"
- WXxDXH (multi-touch): 14.24" x 9.67" x 0.74"
- 361.8mm x 245.7mm x 18.4mm

### 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/GFRP hybrid;
- Bottom: Aluminum alloy

### Media reader

- None

### ExpressCard

- None

### Ports

- Two USB 3.1 Gen 1 (one Always On), two USB Type-C / Thunderbolt 3 (with the function of Power Delivery and DP), HDMI 2.0, Ethernet extension connector, headphone / microphone combo jack, optional smart card reader, SD card reader, security keyhole

### Monitor cable

- Optional: ThinkPad Ethernet Extension Cable

### Security

- Intel vPro Technology
- Discrete TPM 2.0, TCG Certified

### Security chip

- vPro (optional)

### Audio support

- HD Audio, Realtek ALC3286 codec / stereo speakers, 2W x 2, Dolby Audio Premium / dual array microphone, headphone / microphone combo jack, Dolby Atmos headphone

### Battery

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

### Preload

- 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
  - 3-year/1-yr battery depot repair service
  - 3-year/1-yr battery limited onsite service

### Security chip

- None

### Printers

- None

### Network interface

- None

### Computer environment

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

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

Lenovo

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