## ThinkPad P1 Gen 3 Platform Specifications

### Processor
<table>
<thead>
<tr>
<th>Model</th>
<th>Cores</th>
<th>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>Xeon W-10855M</td>
<td>6</td>
<td>12</td>
<td>2.8GHz</td>
<td>5.1GHz</td>
<td>12MB</td>
<td>DDR4-2933</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i9-10885H</td>
<td>8</td>
<td>16</td>
<td>2.4GHz</td>
<td>5.3GHz</td>
<td>16MB</td>
<td>DDR4-2933</td>
<td>Intel UHD Graphics</td>
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<tr>
<td>Core i7-10875H</td>
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<td>Core i7-10850H</td>
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### Chipset
- Intel WM490 Chipset

### Memory Type
- SO-DIMM, DDR4-3200 for non-ECC, DDR4-2933 for ECC
- Both ECC and non-ECC memory operate at DDR4-2933.
- 8GB/16GB/32GB available for both ECC and non-ECC

### Memory Sockets
- 2 DIMM sockets

### Max Memory
- 64GB

### Graphics
- Intel UHD Graphics in processor, also supports one of the following optional discrete graphics:
  - NVIDIA Quadro T1000 with Max-Q Design, 4GB GDDR6 memory
  - NVIDIA Quadro T2000 with Max-Q Design, 4GB GDDR6 memory

### Display

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>Type</th>
<th>Brightness</th>
<th>Aspect Ratio</th>
<th>Contrast Ratio</th>
<th>Color Gamut</th>
<th>Viewing Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.6&quot;</td>
<td>FHD (1920x1080)</td>
<td>WVA Anti-glare</td>
<td>300 nits</td>
<td>16:9</td>
<td>700:1</td>
<td>72% NTSC</td>
<td>170°</td>
</tr>
<tr>
<td>15.6&quot;</td>
<td>FHD (1920x1080)</td>
<td>Dolby Vision HDR</td>
<td>500 nits</td>
<td>16:9</td>
<td>800:1</td>
<td>72% NTSC</td>
<td>170°</td>
</tr>
<tr>
<td>15.6&quot;</td>
<td>UHD (3840x2160)</td>
<td>Dolby Vision HDR</td>
<td>600 nits</td>
<td>16:9</td>
<td>1400:1</td>
<td>100% Adobe</td>
<td>178°</td>
</tr>
<tr>
<td>15.6&quot;</td>
<td>UHD (3840x2160)</td>
<td>OLED Anti-reflection / Anti-smudge</td>
<td>400 nits, 540 nits (peak)</td>
<td>16:9</td>
<td>100000:1</td>
<td>100% DCI-P3</td>
<td>170°</td>
</tr>
</tbody>
</table>

### Color Calibration
- Factory Color Calibration on UHD panels

### Touchscreen
- Touch enabled on selected UHD OLED models, supports 10-finger gesture

### Pen
- Optional Lenovo Pen Pro

### Storage
- Up to two M.2 2280 SSD, PCIe NVMe, 256GB / 512GB / 1TB / 2TB each

### RAID
- RAID 0 / 1 support

### Optical
- None

### Ethernet
- Optional Lenovo USB-C to Ethernet Adapter

### NFC
- None

### WLAN + Bluetooth
- Intel Wi-Fi 6 AX201 on most models, Wi-Fi 2x2 802.11ax + Bluetooth 5.1
- Bluetooth 5.1 requires the latest version of Windows 10 (version 2004 or above)

### WWAN
- One of the following, configurable by model:
  - No WWAN card and non upgradable
  - Integrated Mobile Broadband 4G LTE-A, Fibocom L860-GL, MIMO 2x2, M.2 card

### SIM card
- Optional Nano-SIM card slot

### Dimensions
- Width: 361.8 mm (14.24 in)
- Depth: 245.7 mm (9.67 in)
- Thickness for non-touch models: 18.4 mm (0.72 in)
- Thickness for touch models: 18.7 mm (0.74 in)

### Weight
- Starting at 1.7 kg (3.75 lb, FHD non-touch) / 1.8 kg (3.97 lb, OLED touch)

### Case color
- Woven Carbon Fiber Finish (standard on OLED models, optional on UHD WVA models) or black

### Case material
- Display cover: Carbon Fiber (Black or woven pattern) + PC + PPS Hybrid Bottom: Aluminum + PC / ABS

### Media reader
- SD card reader

### Standard Ports
- 2x Thunderbolt (USB-C form, Thunderbolt 3, USB 3.2 Gen 2, PD, DP), 2x USB-A 3.2 Gen 1 (one Always-on), 1x HDMI 2.0, 1x headphone / microphone combo jack, 1x SD card reader, 1x security keyhole

### Optional Ports
- One optional Nano-SIM card slot on right

### Monitor support
- Up to 4 displays with 3 external monitors plus system LCD screen. External monitors supported via 2x Thunderbolt and 1x HDMI. HDMI supports up to 4K@60Hz.
- Two Thunderbolt support up to 5K@60Hz each

### Monitor cable
- Optional HDMI to VGA, USB-C to DP, or USB-C to VGA adapters

### Bundled Accy
- None

### Camera
- Supports one optional camera as following:
  - HD720p camera with ThinkShutter camera privacy, fixed focus
  - Hybrid IR camera with ThinkShutter camera privacy, fixed focus

### Audio chip
- Realtek ALC3286 codec

### Speaker
- Stereo speakers, Dolby ATMOS Speaker System

### Microphone
- Optional dual far-field microphone

### Keyboard
- 6-row, spill-resistant, LED backlight, multimedia Fn keys with Unified Communications controls

### UltraNav
- 3-button TrackPoint pointing device and 2-button glass surface multi-touch touchpad

### Battery
- Integrated Li-Polymer 80Wh battery. Supports Rapid Charge (charge up to 80% in 1hr) with 135W AC adapter

### Max battery life
- MobileMark 2014: 15.9 hr. MobileMark 2018: 12 hr
- Battery life varies significantly with hardware configurations, settings, usage, & other factors

### Power Adapter
- One of the following:
  - 135W slim AC adapter
  - 170W slim AC adapter

### Operating system
- Supports one optional preloaded operating system as following:
  - Windows 10 Home 64
  - Windows 10 Pro 64
  - Windows 10 Pro 64 for Workstations
  - Windows 10 Government Edition 64
  - Ubuntu Linux LTS
  - Fedora Linux

### Base Warranty
- Optional warranty plans as following:
  - Non-warranty (special bids only)
  - 1-year depot repair service
  - 3-year depot repair service
  - 1-year + 2-year depot repair service
  - 1-year limited onsite service
  - 3-year limited onsite service
  - 1-year + 2-year limited onsite service
  - 1-year depot with 2-year system board repair service

### Mil-Spec test
- MIL-STD-810G military testing

### Environment
- EPEAT Gold. ENERGY STAR 8.0. RoHS-compliant

### Certifications
- Please visit [www.thinkworkstations.com/iv-certiifications/](http://www.thinkworkstations.com/iv-certiifications/)