

ThinkPad P17 Gen 1 Platform Specifications

Product Specifications Reference (PSREF)

| | | | | | | | | | | | | | |
|-------------------|---|---------------------------------------|--------------|----------------|---------------------|------------|--------------|--------------------|-----------------|--|--------------------|--|--|
| Processor | Supports one 10th Xeon W, Core i9, i7, or i5 processor as following: | | | | | | | | | | Dimensions | Width: 415.44 mm (16.36 in). Depth: 280.81 mm (11.06 in). Thickness: 25.11~ 33.25 mm (0.99 ~ 1.31 in) | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Weight | Starting at 3.5 kg (7.7 lb, FHD) | | | |
| | Xeon W-10885M | 8 | 16 | 2.4GHz | 5.3GHz | 16MB | DDR4-2933 | Intel UHD Graphics | Case color | Black | | | |
| | Xeon W-10855M | 6 | 12 | 2.8GHz | 5.1GHz | 12MB | DDR4-2933 | Intel UHD Graphics | Case material | Display cover: GFRP 50% (PPS695 + GF 50%). Bottom: PPS + GF | | | |
| | Core i9-10980HK | 8 | 16 | 2.4GHz | 5.3GHz | 16MB | DDR4-2933 | Intel UHD Graphics | Media reader | SD card reader | | | |
| | Core i9-10885H | 8 | 16 | 2.4GHz | 5.3GHz | 16MB | DDR4-2933 | Intel UHD Graphics | Standard Ports | 1x USB-C (USB 3.2 Gen 1, PD, DP), 2x Thunderbolt (USB-C form, Thunderbolt 3, USB 3.2 Gen 2, PD, DP), 3x 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, 1x RJ-45 | | | |
| | Core i7-10875H | 8 | 16 | 2.3GHz | 5.1GHz | 16MB | DDR4-2933 | Intel UHD Graphics | Optional Ports | One optional smart card reader on right, one optional Nano-SIM card slot on left | | | |
| | Core i7-10850H | 6 | 12 | 2.7GHz | 5.1GHz | 12MB | DDR4-2933 | Intel UHD Graphics | Monitor support | Up to 5 displays with 4 external monitors plus system LCD screen. External monitors supported via 1x USB-C, 2x Thunderbolt, and 1x HDMI. USB-C and HDMI support up to 4K@60Hz. With Thunderbolt, one supports up to 5K@60Hz and one supports up to 4K@60Hz | | | |
| | Core i7-10750H | 6 | 12 | 2.6GHz | 5.0GHz | 12MB | DDR4-2933 | Intel UHD Graphics | Monitor cable | Optional HDMI to VGA, USB-C to DP, or USB-C to VGA adapters | | | |
| | Core i5-10400H | 4 | 8 | 2.6GHz | 4.6GHz | 8MB | DDR4-2933 | Intel UHD Graphics | Bundled Accy | None | | | |
| Chipset | Intel WM490 Chipset | | | | | | | | | | Camera | Optional Hybrid IR camera with ThinkShutter camera privacy, fixed focus | |
| Memory Type | SO-DIMM. DDR4-3200 for non-ECC, DDR4-2933 for ECC. ECC and non-ECC operate at DDR4-2933. 8GB/16GB/32GB available for both ECC and non-ECC | | | | | | | | | | Audio chip | Realtek ALC3286 codec | |
| Memory Sockets | 4 DIMM sockets | | | | | | | | | | Speaker | Stereo speakers, Dolby Atmos sound system | |
| Memory Protection | ECC on models with ECC DIMMs and Xeon processor | | | | | | | | | | Microphone | Optional dual array far-field microphone | |
| Max Memory | 128GB | | | | | | | | | | Keyboard | 6-row, spill-resistant, LED backlight, numeric keypad, multimedia Fn keys with Unified Communications controls | |
| Graphics | Support one of the following discrete graphics: <ul style="list-style-type: none">• NVIDIA Quadro T1000, 4GB GDDR6 memory• NVIDIA Quadro T2000, 4GB GDDR6 memory• NVIDIA Quadro RTX 3000, 6GB GDDR6 memory• NVIDIA Quadro RTX 4000 with Max-Q Design, 8GB GDDR6 memory• NVIDIA Quadro RTX 5000 with Max-Q Design, 16GB GDDR6 memory | | | | | | | | | | UltraNav | 3-button TrackPoint pointing device and 2-button Mylar surface multi-touch touchpad | |
| | | | | | | | | | | | Password | Power-on password, hard disk password, supervisor password | |
| | | | | | | | | | | | Security chip | Discrete TPM 2.0, TCG Certified, may be disabled in some regions | |
| | | | | | | | | | | | System mgmt | Optional Intel vPro Technology supported on vPro enable models | |
| | | | | | | | | | | | Security locks | Security keyhole for optional Kensington lock | |
| Display | Size | Resolution | Type | Surface | Touch | Brightness | Aspect Ratio | Contrast Ratio | Color Gamut | Viewing Angle | Smart card reader | Optional | |
| | 17.3" | FHD (1920x1080) | WVA | Anti-glare | - | 300 nits | 16:9 | 700:1 | 72% NTSC | 160° | Fingerprint reader | Touch style match on chip fingerprint reader on the palm rest | |
| | 17.3" | UHD (3840x2160) Dolby Vision, HDR 400 | WVA | Anti-glare | - | 500 nits | 16:9 | 1500:1 | 100% Adobe | 178° | Battery | Integrated Li-Polymer 94Wh battery. Supports Rapid Charge (charge up to 80% in 1hr) with 230W AC adapter | |
| | | | | | | | | | | | Max battery life | MobileMark 2014: 14.6 hr. MobileMark 2018: 9.75 hr. <i>* Battery life varies significantly with hardware configurations, settings, usage, & other factors</i> | |
| | | | | | | | | | | | Power Adapter | One of the following: <ul style="list-style-type: none">• 230W slim AC adapter• 170W slim AC adapter | |
| Color Calibration | Factory Color Calibration on UHD panels | | | | | | | | | | Operating system | Supports one optional preloaded operating system as following: <ul style="list-style-type: none">• Windows 10 Home 64• Windows 10 Pro 64• Windows 10 Pro 64 for Workstations• Ubuntu Linux LTS | |
| Touchscreen | None | | | | | | | | | | | | |
| Pen | None | | | | | | | | | | | | |
| Storage | Up to two M.2 2280 SSD, PCIe NVMe, 256GB / 512GB / 1TB / 2TB each | | | | | | | | | | | | |
| RAID | RAID 0 / 1 support | | | | | | | | | | | | |
| Optical | None | | | | | | | | | | Base Warranty | Optional warranty plans as following: <ul style="list-style-type: none">• 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 | |
| Ethernet | One onboard GbE port via integrated gigabit ethernet, Intel i219LM for vPro models or i219V for non-vPro models | | | | | | | | | | | | |
| NFC | None | | | | | | | | | | | | |
| WLAN + Bluetooth | Optional 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: <ul style="list-style-type: none">• No WWAN card and non upgradable• Integrated Mobile Broadband Upgradable, No WWAN Card, WWAN Antenna Only• Integrated Mobile Broadband 4G LTE-A, Fibocom L860-GL, MIMO 4x4, M.2 card | | | | | | | | | | | | |
| SIM card | Optional Nano-SIM card slot | | | | | | | | | | Mil-Spec test | MIL-STD-810G military testing | |
| | | | | | | | | | | | Environment | EPEAT Silver. ENERGY STAR 8.0. RoHS-compliant | |
| | | | | | | | | | | | ISV certifications | Please visit www.thinkworkstations.com/isv-certifications/ | |