

ThinkPad P17 Gen 1 Platform Specifications

Processor	Supports one 10th Xeon W, Core i9, i7, or i5 processor as following:											
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics				
	Xeon W-10885M	8	16	2.4GHz	5.3GHz	16MB	DDR4-2933	Intel UHD Graphics				
	Xeon W-10855M	6	12	2.8GHz	5.1GHz	12MB	DDR4-2933	Intel UHD Graphics				
	Core i9-10980HK	8	16	2.4GHz	5.3GHz	16MB	DDR4-2933	Intel UHD Graphics				
	Core i9-10885H	8	16	2.4GHz	5.3GHz	16MB	DDR4-2933	Intel UHD Graphics				
	Core i7-10875H	8	16	2.3GHz	5.1GHz	16MB	DDR4-2933	Intel UHD Graphics				
	Core i7-10850H	6	12	2.7GHz	5.1GHz	12MB	DDR4-2933	Intel UHD Graphics				
	Core i7-10750H	6	12	2.6GHz	5.0GHz	12MB	DDR4-2933	Intel UHD Graphics				
Core i5-10400H	4	8	2.6GHz	4.6GHz	8MB	DDR4-2933	Intel UHD Graphics					
Chipset	Intel WM490 Chipset											
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											
Memory Sockets	4 DIMM sockets											
Memory Protection	ECC on models with ECC DIMMs and Xeon processor											
Max Memory	128GB											
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 											
	Size	Resolution	Type	Surface	Touch	Brightness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle		
Display	17.3"	FHD (1920x1080)	WVA	Anti-glare	-	300 nits	16:9	700:1	72% NTSC	160°		
	17.3"	UHD (3840x2160) Dolby Vision, HDR 400	WVA	Anti-glare	-	500 nits	16:9	1500:1	100% Adobe	178°		
Color Calibration	Factory Color Calibration on UHD panels											
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											
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-G/L, MIMO 4x4, M.2 card 											
SIM card	Optional Nano-SIM card slot											
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)											
Weight	Starting at 3.5 kg (7.7 lb, FHD)											
Case color	Black											
Case material	Display cover: GFRP 50% (PPS695 + GF 50%). Bottom: PPS + GF											
Media reader	SD card reader											
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											
Optional Ports	One optional smart card reader on right, one optional Nano-SIM card slot on left											
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											
Monitor cable	Optional HDMI to VGA, USB-C to DP, or USB-C to VGA adapters											
Bundled Accy	None											
Camera	Optional Hybrid IR camera with ThinkShutter camera privacy, fixed focus											
Audio chip	Realtek ALC3286 codec											
Speaker	Stereo speakers, Dolby Atmos sound system											
Microphone	Optional dual array far-field microphone											
Keyboard	6-row, spill-resistant, LED backlight, numeric keypad, multimedia Fn keys with Unified Communications controls											
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											
Smart card reader	Optional											
Fingerprint reader	Touch style match on chip fingerprint reader on the palm rest											
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 											
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 											
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 											
Mil-Spec test	MIL-STD-810G military testing											
Environment	EPEAT Gold. ENERGY STAR 8.0. RoHS-compliant											
ISV certifications	Please visit www.thinkworkstations.com/isv-certifications/											