

# ThinkPad P15v Gen 1 Platform Specifications

Product Specifications Reference (PSREF)

Processor	Supports one 10th Xeon W, Core i7, or i5 processor as following:									
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics		
	Xeon W-10855M	6	12	2.8GHz	5.1GHz	12MB	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 i5-10300H	4	8	2.5GHz	4.5GHz	8MB	DDR4-2933	Intel UHD Graphics			
Chipset	Intel WM490 Chipset									
Memory Type	SO-DIMM, DDR4-3200 non-ECC or DDR4-2933 ECC. Operates at DDR4-2933. 8GB/16GB/32GB available for both ECC and non-ECC									
Memory Sockets	2 DIMM socket									
Memory Protection	ECC on models with ECC DIMMs and Xeon processor									
Max Memory	64GB									
Graphics	Intel UHD Graphics in processor plus optional NVIDIA Quadro P620, 4GB GDDR5 memory									
Display	Size	Resolution	Type	Surface	Touch	Brightness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle
	15.6"	FHD (1920x1080)	WVA	Anti-glare	-	250 nits	16:9	700:1	45% NTSC	170°
	15.6"	FHD (1920x1080)	WVA	Anti-glare	multi-touch	300 nits	16:9	800:1	45% NTSC	170°
	15.6"	UHD (3840x2160) Dolby Vision, HDR 400	WVA	Anti-glare	-	600 nits	16:9	1400:1	100% Adobe	178°
Color Calibration	Factory Color Calibration on UHD panels									
Touchscreen	Touch enable on selected FHD models, supports 10-finger gesture									
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: • No WWAN card and non upgradable • Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, MIMO 2x2, M.2 card									
SIM card	Optional Nano-SIM card slot									
Dimensions	Width: 366.5 mm (14.43 in). Depth: 250 mm (9.84 in). Thickness: 24.2 mm (0.95 in)									
Weight	Starting at 2.07 kg (4.57 lb, UHD)									
Case color	Black									
Case material	Display cover: PC / ABS Bottom: PC / ABS									
Media reader	SD card reader									
Standard Ports	1x 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, 1x RJ-45									
Optional Ports	One optional smart card reader on left, one optional Nano-SIM card slot on rear									
Monitor support	Up to 3 displays with 2 external monitors plus system LCD screen. External monitors supported via Thunderbolt and HDMI. HDMI supports up to 4K@60Hz. Thunderbolt supports up to 5K@60Hz									
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 ALC3287 codec									
Speaker	Stereo speakers with Dolby Audio support									
Microphone	Optional dual array near-field microphone									
Keyboard	6-row, spill-resistant, numeric keypad, multimedia Fn keys with Unified Communications controls, optional LED backlight									
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 68Wh battery. Supports Rapid Charge (charge up to 80% in 1hr) with 135W AC adapter									
Max battery life	MobileMark 2014: 10 hr. MobileMark 2018: 6.63 hr <i>* Battery life varies significantly with hardware configurations, settings, usage, &amp; other factors</i>									
Power Adapter	135W 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 • Ubuntu Linux LTS									
Base Warranty	Optional warranty plans as following: • 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 <a href="http://www.thinkworkstations.com/isv-certifications/">www.thinkworkstations.com/isv-certifications/</a>									