

# ThinkPad P15s Gen 1 Platform Specifications

Product Specifications Reference (PSREF)

Processor	Supports one 10th Core i7 and i5 -U suffix processor as following:									
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics		
	i7-10610U	4	8	1.8GHz	4.9GHz	8MB	DDR4-2666	Intel UHD Graphics		
	i7-10510U	4	8	1.8GHz	4.9GHz	8MB	DDR4-2666	Intel UHD Graphics		
	i5-10310U	4	8	1.7GHz	4.4GHz	6MB	DDR4-2666	Intel UHD Graphics		
	i5-10210U	4	8	1.6GHz	4.2GHz	6MB	DDR4-2666	Intel UHD Graphics		
Chipset	Intel SoC (System on Chip) platform									
Memory Type	DDR4-3200, operates at DDR4-2666. 8GB/16GB/32GB DDR4-3200 SO-DIMM non-ECC for DIMM sockets, 8GB/16GB DDR4-3200 non-ECC for soldered DIMM									
Memory Sockets	1 DIMM socket plus 1 soldered DIMM, dual-channel capable									
Memory Protection	None									
Max Memory	48GB with one 32GB SO-DIMM plus one 16GB soldered DIMM									
Graphics	Intel UHD Graphics in processor and NVIDIA Quadro P520, 2GB 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	800:1	45%	170°
	15.6"	FHD (1920x1080)	WVA	Anti-glare	multi-touch	300 nits	16:9	800:1	45%	170°
	15.6"	UHD (3840x2160) Dolby Vision, HDR 400	WVA	Anti-glare	-	600 nits	16:9	1400:1	100% Adobe	170°
Color Calibration	Factory Color Calibration on UHD models									
Touchscreen	Optional on-cell touch on selected FHD models, supports 10-finger gesture									
Pen	None									
Storage	Up to one M.2 SSD as following, 2TB max: • M.2 2280 PCIe NVMe, PCIe 3.0 x 4, 256GB / 512GB / 1TB / 2TB • M.2 2242 PCIe NVMe, PCIe 3.0 x 2, 128GB, for special bids • M.2 2280 512GB SSD + 32 GB Optane, PCIe NVMe 3.0 x 4, for special bids									
Optical	None									
Ethernet	One onboard GbE port via integrated gigabit ethernet, Intel i219LM for vPro models or i219V for non-vPro models									
NFC	Optional									
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 Upgradable, No WWAN Card, WWAN Antenna Only • Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card • Integrated Mobile Broadband 4G LTE-A, Fibocom L860-GL, MIMO 4x4, M.2 card									
SIM card	Optional Nano-SIM card slot									
Dimensions	Width: 365.8 mm (14.4 in). Depth: 248 mm (9.76 in). Thickness: 19.1 mm (0.75 inches)									
Weight	Starting at 3.86 lb (1.75kg)									
Case color	Black									
Case material	Display cover: PPS / 50% GF; Bottom: PA / 50% GF									
Media reader	MicroSD card reader									
Standard Ports	On left: 1x USB-C (USB 3.2 Gen 1, PD, DP), 1x Thunderbolt (USB-C form, Thunderbolt 3, USB 3.2 Gen 2, PD, DP), 1x side docking connector, 1x USB-A 3.2 Gen 1, 1x HDMI 1.4b, 1x headphone / microphone combo jack, 1x microSD card reader On right: 1x security keyhole, 1x RJ-45, 1x USB-A 3.2 Gen 1 (Always On)									
Optional Ports	One optional smart card reader on right, one optional nano-SIM card slot on rear									
Monitor support	Up to 3 displays with 2 external monitors plus system LCD screen. Two external monitors supported via USB-C, Thunderbolt, and HDMI. 4096x2304 @60Hz on USB-C and Thunderbolt, 4096x2160 @24Hz on HDMI									
Monitor cable	Optional HDMI to VGA, USB-C to DP, or USB-C to VGA adapters, up to two									
Bundled Accy	None									
Camera	Supports one optional camera as following: • HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus									
Audio chip	Realtek ALC3287 codec									
Speaker	Stereo speakers, 2W x 2, Dolby Audio Speaker System									
Microphone	Optional dual array near-field microphone									
Keyboard	6-row, spill-resistant, multimedia Fn keys with Unified Communications controls, numeric keypad. LED backlight on most models, non LED backlight is for special bids									
UltraNav	TrackPoint pointing device and 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	Optional									
Battery	Integrated Li-Polymer 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter									
Max battery life	MobileMark 2014: 16.5 hr. MobileMark 2018: 10.48 hr. <i>* Battery life varies significantly with hardware configurations, settings, usage, &amp; other factors</i>									
Power Adapter	65W or 65W slim USB-C AC adapter									
Operating system	Supports one optional preloaded operating system as following: • Windows 10 Home 64 • Windows 10 Pro 64 • Windows 10 Government Edition 64 for special bids • 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>									