ThinkPad P15v Gen 1 20TQ003MGB

Product
ThinkPad P15v Gen 1

Region
WE

Country/Region
Germany

Machine Type
20TQ

TopSeller
TopSeller

Processor
Intel Core i7-10750H (6C / 12T, 2.6 / 5.0GHz, 12MB)

Graphics
Integrated Intel UHD Graphics

Chipset
Intel WM490

Memory
1x 32GB SO-DIMM DDR4-3200 Non-ECC

Storage
512GB SSD M.2 2280 PCIe NVMe Opal2

Display
15.6" FHD (1920x1080) IPS 300nits Anti-glare, 45% Gamut

Touchscreen
10-point Multi-touch

Media Reader
SD Reader

Ethernet
100/1000M

Optical
None

WLAN + Bluetooth
Intel AX201 11ax, 2x2 + BT5.1

WWAN
WWAN Upgradable

SIM Card
None

Smart Card Reader
Smart Card Reader

Monitor Cable
None

Case Material
Display cover: PC / ABS Bottom: PC / ABS

Bundled Accessories
None

Camera
720p + IR with ThinkShutter

Microphone
2x, Array

Color
Black

Keyboard
Backlit, German

Fingerprint Reader
Touch Style, Match-on-Chip

NFC
None

TPM
Discrete TPM 2.0

Battery
Integrated 68Wh

Power Adapter
135W Slim Tip

System Management
None

Operating System
Windows 10 Pro 64, English

Bundled Software
None

Base Warranty
3-year, Depot

Bundled Service
None

EAN / UPC / JAN
0195235164761

End of Support
2027-03-04

Announce Date
2020-08-04

Notes:

Battery life is an estimated maximum. Actual battery life may vary based on many factors, including screen brightness, active applications, features, power management settings, battery age and conditioning, and other customer preferences.

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ThinkPad P15v Gen 1 Platform Specifications

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 sockets
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 / micro-phone 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 Com-munications 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: 7.2 hr ** Battery life varies significantly with hardware configurations, settings, usage, & other factors*
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 www.thinkworkstations.com/isv-certifications/

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