ThinkPad P1 Gen 3 20TH0012IX

Product
ThinkPad P1 Gen 3

Region
WE

Country/Region
Italy

Machine Type
20TH

TopSeller
TopSeller

Processor
Intel Core i9-10885H (8C / 16T, 2.4 / 5.3GHz, 16MB)

Graphics
NVIDIA Quadro T2000 Max-Q 4GB GDDR6

Chipset
Intel WM490

Memory
1x 16GB SO-DIMM DDR4-3200 Non-ECC

Storage
1TB SSD M.2 2280 PCIe NVMe

Display
15.6" FHD (1920x1080) IPS 500nits Anti-glare, 72% Gamut, Dolby Vision, HDR

Touchscreen
None

Media Reader
SD Reader

Ethernet
100/1000M

Optical
None

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

WWAN
Fibocom L860-GL

SIM Card
None

Smart Card Reader
None

Monitor Cable
None

Case Material
PPS / 50% GF (Top), PA / 50% GF (Bottom)

Bundled Accessories
None

Camera
720p + IR with ThinkShutter

Microphone
2x, Array

Color
Black

Keyboard
Backlit, Italian

Fingerprint Reader
Touch Style, Match-on-Chip

NFC
None

TPM
Discrete TPM 2.0

Battery
Integrated 80Wh

Power Adapter
170W Slim Tip

System Management
Intel vPro

Operating System
Windows 10 Pro 64, WE (EN/FR/DE/NL/IT)

Bundled Software
None

Base Warranty
3-year, Depot

Bundled Service
3Y Premier TP WS WHB (CPN) (5WS1B09494)

EAN / UPC / JAN
0195042995534

End of Support
2027-02-21

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 P1 Gen 3 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-10855M	6	12	2.8GHz	5.1GHz	12MB	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

Chipset	Intel WM490 Chipset
Memory Type	SO-DIMM. DDR4-3200 for non-ECC, DDR4-2933 for ECC. Both ECC and non-ECC memory operate 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, also supports one of the following optional discrete graphics: • NVIDIA Quadro T1000 with Max-Q Design, 4GB GDDR6 memory • NVIDIA Quadro T2000 with Max-Q Design, 4GB GDDR6 memory

Display

Size	Resolution	Type	Surface	Touch	Brightness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle
15.6"	FHD (1920x1080)	WVA	Anti-glare	-	300 nits	16:9	700:1	72% NTSC	170°
15.6"	FHD (1920x1080) Dolby Vision HDR	WVA	Anti-glare	-	500 nits	16:9	800:1	72% NTSC	170°
15.6"	UHD (3840x2160) Dolby Vision HDR	WVA	Anti-glare	-	600 nits	16:9	1400:1	100% Adobe	178°
15.6"	UHD (3840x2160) Dolby Vision, HDR 500 True Black	OLED	Anti-reflection / Anti-smudge	multi-touch	400 nits, 540 nits (peak)	16:9	100000:1	100% DCI-P3	170°

Color Calibration	Factory Color Calibration on UHD panels
Touchscreen	Touch enable on selected UHD OLED models, supports 10-finger gesture
Pen	Optional Lenovo Pen Pro
Storage	Up to two M.2 2280 SSD, PCIe NVMe, 256GB / 512GB / 1TB / 2TB each
RAID	RAID 0 / 1 support
Optical	None
Ethernet	Lenovo USB-C to Ethernet Adapter
NFC	None
WLAN + Bluetooth	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 L860-GL, MIMO 2x2, M.2 card
SIM card	Optional Nano-SIM card slot
Dimensions	Width: 361.8 mm (14.24 in). Depth: 245.7 mm (9.67 in). Thickness for non-touch models: 18.4 mm (0.72 in) Thickness for touch models: 18.7 mm (0.74 in)
Weight	Starting at 1.7 kg (3.75 lb, FHD non-touch) / 1.8 kg (3.97 lb, OLED touch)

Case color	Woven Carbon Fiber Finish (standard on OLED models, optional on UHD WVA models) or black
Case material	*Display cover:* Carbon Fiber (Black or woven pattern) + PC + PPS Hybrid *Bottom:* Aluminum + PC / ABS
Media reader	SD card reader
Standard Ports	2x 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
Optional Ports	One optional Nano-SIM card slot on right
Monitor support	Up to 4 displays with 3 external monitors plus system LCD screen. External monitors supported via 2x Thunderbolt and 1x HDMI. HDMI supports up to 4K@60Hz. Two Thunderbolt support up to 5K@60Hz each
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 ALC3286 codec
Speaker	Stereo speakers, Dolby ATMOS Speaker System
Microphone	Optional dual far-field microphone
Keyboard	6-row, spill-resistant, LED backlight, multimedia Fn keys with Unified Communi-cations controls.
UltraNav	3-button TrackPoint pointing device and 2-button glass 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	None
Fingerprint reader	Touch style match on chip fingerprint reader on the palm rest
Battery	Integrated Li-Polymer 80Wh battery. Supports Rapid Charge (charge up to 80% in 1hr) with 135W AC adapter
Max battery life	MobileMark 2014: 15.9 hr. MobileMark 2018: 12 hr ** Battery life varies significantly with hardware configurations, settings, usage, & other factors*
Power Adapter	One of the following: • 135W slim AC adapter • 170W 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 • Windows 10 Government Edition 64 • Ubuntu Linux LTS (available later) • Fedora Linux (available later)
Base Warranty	Optional warranty plans as following: • Non-warranty (special bids only) • 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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