ThinkPad P17 Gen 1 20SN002CMB

Product
ThinkPad P17 Gen 1

Region
WE

Country/Region
Belgium

Machine Type
20SN

TopSeller
TopSeller

Processor
Intel Core i7-10850H (6C / 12T, 2.7 / 5.1GHz, 12MB)

Graphics
NVIDIA Quadro T1000 4GB GDDR6

Chipset
Intel WM490

Memory
2x 8GB SO-DIMM DDR4-3200 Non-ECC

Storage
512GB SSD M.2 2280 PCIe NVMe Opal2

Display
17.3" FHD (1920x1080) WVA 300nits Anti-glare, 72% Gamut

Touchscreen
None

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
Top: GFRP 50% (PPS695 + GF 50%) Bottom: PPS + GF

Bundled Accessories
None

Camera
720p + IR with ThinkShutter

Microphone
2x, Array

Color
Black

Keyboard
Backlit, Belgian

Fingerprint Reader
Touch Style, Match-on-Chip

NFC
None

TPM
Discrete TPM 2.0

Battery
Integrated 94Wh

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
None

EAN / UPC / JAN
0195235063729

End of Support
2027-02-28

Announce Date
2020-07-28

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 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: • 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
Display	

Size	Resolution	Type	Surface	Touch	Brightness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle
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: • No WWAN card and non upgradable • Integrated Mobile Broadband Upgradable, No WWAN Card, WWAN Antenna Only • Integrated Mobile Broadband 4G LTE-A, Fibocom L860-GL, 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. ** Battery life varies significantly with hardware configurations, settings, usage, & other factors*
Power Adapter	One of the following: • 230W 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 • 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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