

ThinkPad P1 (2nd Gen) 20QT000HGE

Product
ThinkPad P1 (2nd Gen)

Region
WE

Country
Germany

Machine Type
20QT

TopSeller
TopSeller

Processor
Core i7-9850H (6C / 12T, 2.6 / 4.6GHz, 12MB)

Graphics
NVIDIA Quadro T2000 Max-Q 4GB GDDR5

Chipset
Intel CM246

Memory
1x 16GB DIMM DDR4-2666 non-ECC

Display
15.6" HDR 400 FHD (1920x1080) IPS 500nits Anti-glare

Multi-touch
None

Storage
512GB SSD M.2 2280 PCIe NVMe Opal2

RAID
No

Optical
None

WLAN + Bluetooth
Intel AX200 11ax, 2x2 + BT5.1

WWAN
None

SIM Card
None

Smart Card Reader
Smart Card Reader

Monitor Cable
None

Bundled Accessories
ThinkPad Ethernet Extension Cable

Color
Black Paint

Camera
720p + IR

Keyboard
Backlit

Pen
None

Fingerprint Reader
Fingerprint Reader

NFC
None

Color Calibrator
None

TPM
Discrete TPM 2.0

Battery
Integrated 80Wh

Power Adapter
135W Slim Tip

System Management
Intel vPro

Operating System
Windows 10 Pro 64

Bundled Software
None

Warranty
3-year, Depot

Upsell Service Bundles
None

End of Support
2025-08-02

Announce Date
2019-07-02

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 (2nd Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor	9th Generation Intel® Core™ i5 / i7 / i9 Processor or Intel Xeon® E Processor										Dimensions	<i>WxDxH (non-touch):</i> 14.24" x 9.67" x 0.72"; 361.8mm x 245.7mm x 18.4mm <i>WxDxH (multi-touch):</i> 14.24" x 9.67" x 0.74"; 361.8mm x 245.7mm x 18.7mm <i>Non-touch model:</i> starting at 3.75 lb (1.7 kg); <i>Multi-touch model:</i> starting at 4.0 lb (1.81 kg) Black paint (FHD model) or black weave (UHD model) <i>Display cover:</i> CFRP/GFRP hybrid; <i>Bottom:</i> Aluminum alloy	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics			Weight		
	i5-9400H	4	8	2.5 GHz	4.3 GHz	8MB	DDR4-2666	Intel UHD Graphics 630			Case color		
	i7-9750H	6	12	2.6 GHz	4.5 GHz	12MB					Case material		
	i7-9850H	6	12	2.6 GHz	4.6 GHz	12MB					Smart card reader	Optional: Smart card reader	
	i9-9880H	8	16	2.3 GHz	4.8 GHz	16MB					Media reader	SD Card reader (SD, SDHC, SDXC), supports UHS-II SD card	
	E-2276M	6	12	2.8 GHz	4.7 GHz	12MB		Intel UHD Graphics P630			Ports	Two USB 3.1 Gen 1 (one Always On), two USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of Power Delivery and DisplayPort), HDMI 2.0, Ethernet extension connector, headphone / microphone combo jack, optional smart card reader, SD card reader, security keyhole <i>* Power Delivery only supports power-out for charging peripherals</i> <i>* Depending on many factors, actual data transfer speed may be lower than theoretical speed</i>	
Graphics	Intel UHD Graphics 630 in processor only or Intel UHD Graphics 630 or P630 in processor and NVIDIA® Quadro® T1000 or T2000 Max-Q, 4GB GDDR5 memory; supports external digital monitor via HDMI or Thunderbolt™; supports four independent displays; Max resolution: 4096x2160@60Hz (Thunderbolt); 4096x2160@60Hz (HDMI)										Monitor cable (optional)	HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter USB-C to VGA: Lenovo USB-C to VGA Adapter USB-C to DP: Lenovo USB-C to DisplayPort Adapter Optional: ThinkPad Ethernet Extension Cable	
Chipset	Mobile Intel CM246 Chipset										Bundled Accy	Optional: ThinkPad Ethernet Extension Cable	
Memory	64GB max / 2666MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, two DDR4 SO-DIMM sockets										Camera (optional)	One of the following, configurable by model: • HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus	
Display	Size	Resolution		Type	Surface	Brightness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Audio support		
	15.6"	FHD (1920x1080)		IPS	Anti-glare	300 nits	16:9	700:1	72% NTSC	170°			
	15.6"	FHD (1920x1080) HDR 400, Dolby Vision™		IPS	Anti-glare	500 nits	16:9	1200:1	72% NTSC	170°			
	15.6"	UHD (3840x2160) HDR 400, Dolby Vision		IPS	Anti-glare	500 nits	16:9	1200:1	100% Adobe	170°			
	15.6"	UHD (3840x2160) HDR 500 True Black, Dolby Vision, Multi-touch		OLED	AR, AS	SDR 400nit HDR 500nit (Peak)	16:9	100000:1	100% DCI-P3	170°			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture (UHD OLED only), anti-reflection (AR), anti-smudge (AS) coating Supports pen accessory, please see the accessory compatibility for details										Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight	
Pen											UltraNav™	TrackPoint® pointing device and buttonless glass surface multi-touch touchpad	
Storage	Up to two M.2 SSD M.2 2280 SSD / PCIe NVMe 3.0 x 4										Security	Power-on password, hard disk password, supervisor password, security keyhole	
RAID (optional)	RAID 0/1 support										Security chip	Discrete TPM 2.0, TCG Certified	
Optical	None										System Mgt (opt)	Intel vPro Technology	
Ethernet	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via bundled or optional ThinkPad Ethernet Extension Cable										Fingerprint reader	Touch style match on chip fingerprint reader on the keyboard bezel	
WLAN	Intel Wireless-AX 22260, Wi-Fi 2x2 802.11ax + Bluetooth 5.1										Color calibration	Optional: X-Rite Pantone factory color calibration (UHD model only)	
Bluetooth™	Bluetooth 5.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter										NFC	None	
WWAN	None										Battery	Integrated Li-ion 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr)	
SIM card	None										Max battery life	MobileMark® 2014: 13.8 hr <i>* Battery life varies significantly with settings, usage, & other factors</i>	
											AC adapter	135W slim tip AC adapter	
											Preload	One of the following, configurable by model: • Windows® 10 Home 64 • Windows 10 Pro 64 • Windows 10 Pro 64 for Workstations	
											Limited warranty	One of the following, configurable by model: • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service	
											Mil-Spec test	MIL-STD-810G military testing	
											Environment	EPEAT™ Silver; ENERGY STAR® 7.1; RoHS-compliant	

Note: The specifications above may not be available in all regions.

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