

ThinkPad P1 (2nd Gen) 20QT008CGE

Product

ThinkPad P1 (2nd Gen)

Region

WE

Country/Region

Germany

Machine Type

20QT

TopSeller

TopSeller

Processor

Intel Xeon E-2276M (6C / 12T, 2.8 / 4.7GHz, 12MB)

Graphics

NVIDIA Quadro T2000 Max-Q 4GB GDDR5

Chipset

Intel CM246

Memory

1x 32GB SO-DIMM DDR4-2666 ECC

Storage

512GB SSD M.2 2280 PCIe NVMe Opal2

RAID

No

Display

15.6" UHD (3840x2160) IPS 500nits Anti-glare, 100% Adobe Gamut, Dolby Vision HDR

Touchscreen

None

Pen

None

Media Reader

SD Card Reader

Ethernet

100/1000M via Optional Adapter

Optical

None

WLAN + Bluetooth

Intel AX200 11ax, 2x2 + BT5.1

WWAN

None

SIM Card

None

Smart Card Reader

Smart Card Reader

Monitor Cable

None

Case Material

CFRP/GFRP (Top), Aluminum (Bottom)

Bundled Accessories

ThinkPad Ethernet Extension Cable

Camera

720p + IR with ThinkShutter

Microphone

2x, Array

Color

Black, Paint

Keyboard

Backlit, German

Fingerprint Reader

Touch Style, Match-on-Chip

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 for Workstations, German

Bundled Software

None

Base Warranty

3-year, Depot

Bundled Service

None

EAN / UPC / JAN

0194778265799

End of Support

2026-02-21

Announce Date

2020-01-21

Recommended Services**Best**

5Y Premier Support Upgrade from 3Y Depot/CCI (5WS0V07061)

Better

4Y Premier Support Upgrade from 3Y Depot/CCI (5WS0V07067)

Good

3Y Premier Support Upgrade from 3Y Depot/CCI (5WS0V07092)

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	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics			Weight	<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	
	i5-9400H	4	8	2.5 GHz	4.3 GHz	8MB	DDR4-2666	Intel UHD Graphics 630			Case color	Black paint (FHD model) or black weave (UHD model)	
	i7-9750H	6	12	2.6 GHz	4.5 GHz	12MB					Case material	<i>Display cover:</i> CFRP/GFRP hybrid; <i>Bottom:</i> Aluminum alloy	
	i7-9850H	6	12	2.6 GHz	4.6 GHz	12MB					Intel UHD Graphics P630		
	i9-9880H	8	16	2.3 GHz	4.8 GHz	16MB							
E-2276M	6	12	2.8 GHz	4.7 GHz	12MB		Smart card reader	<i>Optional:</i> Smart card reader					
Graphics	Intel UHD Graphics 630 in processor only or Intel UHD Graphics 630 or P630 in processor and NVIDIA® Quadro® T1000 or T2000, 4GB GDDR5 memory; supports external digital monitor via HDMI or Thunderbolt™; supports four independent displays; Max resolution: 5K@60Hz (Thunderbolt); 4K@60Hz (HDMI)										Media reader	SD Card reader (SD, SDHC, SDXC), supports UHS-II SD card	
											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>	
Chipset	Mobile Intel CM246 Chipset										Monitor cable (optional)	<i>HDMI to VGA:</i> Lenovo HDMI to VGA Monitor Adapter <i>USB-C to VGA:</i> Lenovo USB-C to VGA Adapter <i>USB-C to DP:</i> Lenovo USB-C to DisplayPort Adapter	
Memory	64GB max / 2666MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, two DDR4 SO-DIMM sockets										Bundled Accy	<i>Optional:</i> ThinkPad Ethernet Extension Cable	
Display	Size	Resolution		Type	Surface	Brightness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Camera (optional)	<i>One of the following, configurable by model:</i>	
	15.6"	FHD (1920x1080)		IPS	Anti-glare	300 nits	16:9	700:1	72% NTSC	170°	Audio support	• HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus	
	15.6"	FHD (1920x1080) Dolby Vision™ HDR		IPS	Anti-glare	500 nits	16:9	1200:1	72% NTSC	170°		HD Audio, Synaptic® CX11880 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / optional dual array far-field microphone, headphone / microphone combo jack, Dolby Atmos® sound system	
	15.6"	UHD (3840x2160) Dolby Vision HDR		IPS	Anti-glare	500 nits	16:9	1200:1	100% Adobe	170°		Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, LED backlight TrackPoint® pointing device and buttonless glass surface multi-touch touchpad
	15.6"	UHD (3840x2160) Dolby Vision HDR, Multi-touch		OLED	Anti-reflection / Anti-smudge	SDR 400nit, HDR 500nit (peak)	16:9	100000:1	100% DCI-P3	170°	Security		Power-on password, hard disk password, supervisor password, security keyhole
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture (UHD OLED only), AR (anti-reflection) / AS (anti-smudge) coating										Security chip	Discrete TPM 2.0, TCG Certified	
Pen (optional)	Lenovo Pen Pro (special bid only)										System Mgt (opt)	Intel vPro Technology	
Storage	Up to two M.2 SSD, supports single sided M.2 2280 drives only										Fingerprint reader	Touch style match on chip fingerprint reader on the keyboard bezel	
RAID (optional)	M.2 2280 SSD / PCIe NVMe 3.0 x 4										Color calibration	<i>Optional:</i> X-Rite Pantone factory color calibration (UHD model only)	
Optical	RAID 0/1 support										NFC	None	
Ethernet	None										Battery	Integrated Li-ion 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr)	
WLAN (optional)	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via bundled or optional ThinkPad Ethernet Extension Cable										Max battery life	<i>MobileMark® 2014:</i> 13.8 hr <i>* Battery life varies significantly with settings, usage, & other factors</i>	
Bluetooth™ (opt)	Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.1										AC adapter	135W slim tip AC adapter	
WWAN	Bluetooth 5.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter										Operating system	<i>One of the following, configurable by model:</i>	
SIM card	None										Limited warranty	• Windows® 10 Home 64 • Windows 10 Pro 64 • Windows 10 Pro 64 for Workstations	
												<i>One of the following, configurable by model:</i>	
												• 1-year depot repair service • 1-year depot with 2-year system board 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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November 2019

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