

ThinkPad P1 (2nd Gen) 20QT0021US

Product

ThinkPad P1 (2nd Gen)

Region

NA

Country/Region

USA

Machine Type

20QT

TopSeller

TopSeller

Processor

Core i7-9750H (6C / 12T, 2.6 / 4.5GHz, 12MB)

Graphics

NVIDIA Quadro T2000 4GB GDDR5

Chipset

Intel CM246

Memory

2x 8GB DIMM DDR4-2666 non-ECC

Display

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

Multi-touch

None

Storage

1TB SSD M.2 2280 PCIe NVMe Opal2

RAID

No

Optical

None

WLAN + Bluetooth

Intel AX200 11ax, 2x2 + BT5.0

WWAN

None

SIM Card

None

Smart Card Reader

None

Monitor Cable

None

Bundled Accessories

None

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

None

Operating System

Windows 10 Pro 64

Bundled Software

None

Base Warranty

3-year, Depot

Upsell Service Bundles

None

End of Support

2025-08-02

Announce Date

2019-07-02

Recommended Services**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.

California Electronic Waste Recycling Fee

In California, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product. For more information, go to:

<https://www.calrecycle.ca.gov/Electronics/Consumer>

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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					Smart card reader	<i>Optional:</i> Smart card reader
	i9-9880H	8	16	2.3 GHz	4.8 GHz	16MB		Intel UHD Graphics P630			Media reader	SD Card reader (SD, SDHC, SDXC), supports UHS-II SD card
E-2276M	6	12	2.8 GHz	4.7 GHz	12MB					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, 4GB GDDR5 memory; supports external digital monitor via HDMI or Thunderbolt™; supports four independent displays; Max resolution: 5K@60Hz (Thunderbolt); 4K@60Hz (HDMI)										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 <i>Optional:</i> ThinkPad Ethernet Extension Cable
Chipset	Mobile Intel CM246 Chipset										Bundled Accy	<i>Camera (optional)</i> One of the following, configurable by model:
Memory	64GB max / 2666MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, two DDR4 SO-DIMM sockets										Audio support	• HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus HD Audio, Synaptic® CX11880 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array far-field microphone, headphone / microphone combo jack, Dolby Atmos® sound system
Display	Size	Resolution		Type	Surface	Brightness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight
	15.6"	FHD (1920x1080)		IPS	Anti-glare	300 nits	16:9	700:1	72% NTSC	170°	UltraNav™	TrackPoint® pointing device and buttonless glass surface multi-touch touchpad
	15.6"	FHD (1920x1080) HDR 400, Dolby Vision™		IPS	Anti-glare	500 nits	16:9	1200:1	72% NTSC	170°	Security	Power-on password, hard disk password, supervisor password, security keyhole
	15.6"	UHD (3840x2160) HDR 400, Dolby Vision		IPS	Anti-glare	500 nits	16:9	1200:1	100% Adobe	170°	Security chip	Discrete TPM 2.0, TCG Certified
	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°	System Mgt (opt)	Intel vPro Technology
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture (UHD OLED only), anti-reflection (AR), anti-smudge (AS) coating										Fingerprint reader	Touch style match on chip fingerprint reader on the keyboard bezel
Pen	Supports pen accessory, please see the accessory compatibility for details										Color calibration	<i>Optional:</i> X-Rite Pantone factory color calibration (UHD model only)
Storage	Up to two M.2 SSD M.2 2280 SSD / PCIe NVMe 3.0 x 4										NFC	None
RAID (optional)	RAID 0/1 support										Battery	Integrated Li-ion 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
Optical	None										Max battery life	<i>MobileMark® 2014:</i> 13.8 hr <i>* Battery life varies significantly with settings, usage, & other factors</i>
Ethernet	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via bundled or optional ThinkPad Ethernet Extension Cable										AC adapter	135W slim tip AC adapter
WLAN	Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.0										Operating system	<i>One of the following, configurable by model:</i> • Windows® 10 Home 64 • Windows 10 Pro 64 • Windows 10 Pro 64 for Workstations
Bluetooth™	Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter										Limited warranty	<i>One of the following, configurable by model:</i> • 1-year depot repair service • 1-year depot with 2-year planar repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service
WWAN	None										Mil-Spec test	MIL-STD-810G military testing
SIM card	None										Environment	EPEAT™ Silver; ENERGY STAR® 7.1; RoHS-compliant

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

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