

# ThinkPad P1 (2nd Gen) 20QT005YUS

**Product**

ThinkPad P1 (2nd Gen)

**Region**

NA

**Country/Region**

USA

**Machine Type**

20QT

**TopSeller**

TopSeller

**Processor**

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

**Graphics**

NVIDIA Quadro T2000 4GB GDDR5

**Chipset**

Intel CM246

**Memory**

1x 16GB SO-DIMM DDR4-2666 ECC

**Storage**

512GB SSD M.2 2280 PCIe NVMe Opal2

**RAID**

No

**Display**

15.6" UHD (3840x2160) OLED 400nits AR (anti-reflection) / AS (anti-smudge), 100% DCI-P3 Gamut, Dolby Vision HDR

**Touchscreen**

10-point Multi-touch

**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**

None

**Monitor Cable**

None

**Case Material**

CFRP/GFRP (Top), Aluminum (Bottom)

**Bundled Accessories**

None

**Camera**

720p + IR with ThinkShutter

**Microphone**

2x, Array

**Color**

Black, Weave

**Keyboard**

Backlit, English

**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, English

**Bundled Software**

None

**Base Warranty**

3-year, Depot

**Bundled Service**

None

**EAN / UPC / JAN**

194552376499

**End of Support**

2025-10-17

**Announce Date**

2019-09-17

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**Recommended Services****Best**

3Y Lenovo Protect (Premier Support + Keep Your Drive + Accidental Damage Protection + Sealed Battery) (5PS0N73216)

**Better**

3Y Lenovo Support (Premier Support + Keep Your Drive + Sealed Battery) (5PS0N73159)

**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						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, 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	Camera (optional)	<i>One of the following, configurable by model:</i>																					
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	Keyboard	UltraNav™	Security	Security chip	System Mgt (opt)	Fingerprint reader	Color calibration	NFC	Battery	Max battery life	AC adapter	Operating system	Limited warranty	Mil-Spec test	Environment								
Display	Size	Resolution		Type	Surface	Brightness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle																	6-row, spill-resistant, multimedia Fn keys, LED backlight TrackPoint® pointing device and buttonless glass surface multi-touch touchpad	Power-on password, hard disk password, supervisor password, security keyhole Discrete TPM 2.0, TCG Certified Intel vPro Technology Touch style match on chip fingerprint reader on the keyboard bezel <i>Optional:</i> X-Rite Pantone factory color calibration (UHD model only) None	Integrated Li-ion 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr) <i>MobileMark® 2014:</i> 13.8 hr <i>* Battery life varies significantly with settings, usage, &amp; other factors</i>	135W slim tip AC adapter	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"><li>Windows® 10 Home 64</li><li>Windows 10 Pro 64</li><li>Windows 10 Pro 64 for Workstations</li></ul>	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"><li>1-year depot repair service</li><li>1-year depot with 2-year system board repair service</li><li>3-year/1-yr battery depot repair service</li><li>3-year/1-yr battery limited onsite service</li></ul>	MIL-STD-810G military testing	EPEAT™ Silver; ENERGY STAR® 7.1; RoHS-compliant
	15.6"	FHD (1920x1080)	IPS	Anti-glare	300 nits	16:9	700:1	72% NTSC	170°																									
	15.6"	FHD (1920x1080) Dolby Vision™ HDR	IPS	Anti-glare	500 nits	16:9	1200:1	72% NTSC	170°																									
	15.6"	UHD (3840x2160) Dolby Vision HDR	IPS	Anti-glare	500 nits	16:9	1200:1	100% Adobe	170°																									
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°																										
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture (UHD OLED only), AR (anti-reflection) / AS (anti-smudge) coating										Pen (optional)	Storage	RAID (optional)	Optical	Ethernet	WLAN (optional)	Bluetooth™ (opt)	WWAN	SIM card															
Lenovo Pen Pro (special bid only)																																		
Up to two M.2 SSD, supports single sided M.2 2280 drives only M.2 2280 SSD / PCIe NVMe 3.0 x 4																																		
RAID 0/1 support																																		
None																																		
Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via bundled or optional ThinkPad Ethernet Extension Cable																																		
Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.1																																		
Bluetooth 5.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter																																		
None																																		
None																																		

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

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