ThinkPad P1 20MD0001++

Product

ThinkPad P1

Region

EMEA

Machine Type

20MD

TopSeller

TopSeller

Processor

Core i7-8750H (6C, 2.2 / 4.1GHz, 9MB)

vPro

No

Graphics

NVIDIA Quadro P1000 4GB

Chipset

Intel CM246

Memory

8GBx2 non-ECC

Display

15.6" FHD (1920x1080) IPS

Multi-touch

None

Pen None

Storage

256GB SSD M.2 PCIe NVMe Opal2

RAID

No

Optical

None

WLAN + Bluetooth

Intel 9560 ac, 2x2 + BT5.0

WWAN

None

SIM Card

None

Smart Card Reader

Smart Card Reader

Monitor Cable

None

Adapter

ThinkPad Ethernet Extension Cable

Camera

720p

Kevboard

Backlit

Fingerprint Reader

Fingerprint Reader

NFC

None

TPM

dTPM 2.0

Battery

80Wh

Power Adapter

135W Slim Tip

Operating System Windows 10 Pro 64

Warrantv

3-year, Onsite

End of Support

Sep 28, 2024

Ann Date (mm/yy)

08/18

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. https://www.lenovo.com/hk/en/battery-info



WWW.LENOVO.COM

This publication was developed for products and services offered in the United States and E.M.E.A countries. Lenovo may not offer the products, services or features discussed in this document in other countries. Lenovo may withdraw an offering at any time. Information is subject to change without notice. Consult your local representative for information on offerings available in your area.

Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not responsible for photographic or typographical errors.

Lenovo provides this publication "as is" without warranty of any kind, either express or implied, including the implied warranties of merchantability or ftness for a particular purpose.



https://psref.lenovo.com

Visit psref website for the latest version of Product Specifications Reference.
© Lenovo, 2019. All rights reserved.



ThinkPad P1 Platform Specifications

· · · · · · · · · · · · · · · · · · ·			
Processor	8th Generation Intel® Core™ i5 / i7 Processor or Intel Xeon® E Processor	Smart card reader Optional: Smart card reader	
	Number Cores Tilleaus Frequency Frequency Types Graphics	Media reader	None SD Card reader (SD, SDHC, SDXC), supports UHS-II SD card Two USB 3.1 Gen 1 (one Always On), two USB Type-C / Thunderbolt 3,
	i5-8400H 4 8 2.5 GHz 4.2 GHz 8MB i7-8750H 2.2 GHz 4.1 GHz 9MB i7-8850H 6 12 2.6 GHz 4.3 GHz 9MB E-2176M 2.7 GHz 4.4 GHz 12MB		HDMI 2.0, Ethernet extension connector, headphone / microphone combo jack, optional smart card reader, 4-in-1 reader (MMC, SD, SDHC, SDXC), security keyhole * Depending on many factors, actual data transfer speed may be lower than theoretical speed
Graphics	Intel UHD Graphics 630 in processor and	Monitor cable (optional)	HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter USB-C to DP: Lenovo USB-C to DisplayPort Adapter
	NVIDIA® Quadro® P1000 (4GB memory) or P2000 (4GB memory); supports external digital monitor via HDMI or Thunderbolt™; supports four independent displays; Max resolution: 5120X2880@30Hz (Thunderbolt); 4096x2160@60Hz (HDMI)		I) One of the following, configurable by model: HD720p camera with ThinkShutter camera privacy, fixed focus IR camera and HD720p camera, fixed focus HD Audio, Realtek® ALC3286 codec /
Chipset Memory	Mobile Intel CM246 Chipset 64GB non-ECC or 32GB ECC max / 2666MHz DDR4 (ECC function supported only on Xeon processor), dual-channel capable, two DDR4 SO-DIMM sockets		stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo jack, Dolby Atmos® headphone
Display	Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio,		6-row, spill-resistant, multimedia Fn keys, LED backlight TrackPoint® pointing device and buttonless glass surface multi-touch touchpad
Multi-touch (opt)	300 htts, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle Some: 15.6" (396mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 400 nits, 16:9 aspect ratio, 1200:1 contrast ratio, 100% gamut, 170° viewing angle, multi-touch, anti-reflection (AR) Capacitive-type multi-touch, supports 10-finger gesture (4K only)	Security chip vPro (optional) Fingerprint reader Color calibration	
Pen	Supports pen accessory, please see the accessory compatibility for details		None
Storage RAID (optional) Optical	Up to 2 drives (two M.2 SSD) M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s RAID 0/1 support None	Max battery life (MobileMark 2014) AC adapter	Integrated Li-ion 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr) Discrete mode: 7.36 hr; Hybrid mode: 13.87 hr * Battery life varies significantly with settings, usage, & other factors 135W slim tip AC adapter
Ethernet	Native Intel Ethernet Connection I219-V (<i>Non-vPro</i>) or I219-LM (<i>vPro</i>)) via optional ThinkPad Ethernet Extension Cable		One of the following, configurable by model: Windows® 10 Home 64 Windows 10 Pro 64
WLAN Bluetooth™	Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter		Windows 10 Pro 64 Windows 10 Pro 64 for Workstations One of the following, configurable by model:
WWAN SIM card	None None		 1-year depot repair service 3-year/1-yr battery depot repair service
Dimensions	WxDxH (non-touch): 14.24" x 9.67" x 0.72"; 361.8mm x 245.7mm x 18.4mm WxDxH (multi-touch): 14.24" x 9.67" x 0.74"; 361.8mm x 245.7mm x 18.7mm		3-year/1-yr battery limited onsite service AUL STD 0100 military contifications
Weight	Non-touch model: starting at 3.76 lb (1.7 kg);		MIL-STD-810G military certification EPEAT™ Gold: ENERGY STAR® 6.1: RoHS-compliant
Case color Case material	Multi-touch model: starting at 4.06 lb (1.8 kg) Black Display cover: CFRP/GFRP hybrid; Bottom: Aluminum alloy	Environment	LELAI™ GOIU, ENERGIT STAR° 0.1; HOHS-COMPIIANT
N . TI	2 1 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2		

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





