ThinkPad P1 20MD000R++

Region

EMEA

Machine Type

20MD

TopSeller

TopSeller

Processor

Core i7-8850H (6C, 2.6 / 4.3GHz, 9MB)

vPro

vPro

Graphics

NVIDIA Quadro P2000 4GB

Chipset

Intel CM246

Memory

16GBx1 non-ECC

Display

15.6" 4K (3840x2160) IPS AR

Multi-touch

10-point Multi-touch

Pen

None

Storage

512GB 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

IR &720p

Keyboard

Backlit

Fingerprint Reader

Fingerprint Reader

NFC

None

 TPM

dTPM 2.0

Battery

80Wh

Power Adapter

135W Slim Tip

Operating System

Windows 10 Pro 64

Warranty

3-year, Onsite

End of Support

Sep 28, 2024

Ann Date (mm/yy)

08/18

Note:

Country Code "US" is for United States, "++" is for EMEA countries (e.g. AD - Saudi, Arabia, AT - Austria, BM - Bulgaria, etc.), "xx" is for EAST countries (e.g. BM - Bulgaria, CX - Hungary, CY - Cyprus, etc.), and "**" is for MEA countries (e.g. AD - Saudi, Arabia, ED - Egypt, EQ - Sweden, etc.). Please be aware that the EMEA/ EAST/MEA models listed above might not be available in all countries



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ThinkPad P1 Platform Specifications

Processor	8th Generation Intel® Core™ i5 / i7 Processor or Intel Xeon® E Processor	Smart card reader Optional: Smart card reader
	Processor # of # of Base Max Turbo Cache Threads Frequency Frequency Cache Types Graphics	ExpressCard None Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card Ports 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 Monitor cable (optional) Monitor Adapter USB-C to DP: Lenovo USB-C to DisplayPort Adapter
Graphics	Intel UHD Graphics 630 in processor and 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)	Camera (optional) One of the following, configurable by model: • HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera, fixed focus Audio support HD Audio, Realtek® ALC3286 codec, stereo speakers, 2W x 2, Dolby® Audio™ Premium, headphone / microphone
Chipset Memory	Mobile Intel CM246 Chipset 64GB non-ECC or 32GB ECC max / 2400MHz DDR4 (ECC function supported only on Xeon processor), dual-channel capable, two DDR4 SO-DIMM sockets * Installed DIMMs are actually 2666MHz but run at 2400MHz due to Intel limitation	combo jack, Dolby Atmos® headphone, dual array microphone Keyboard UltraNav™ 6-row, spill-resistant, multimedia Fn keys, LED backlight TrackPoint® pointing device and buttonless glass surface multi-touch touchpad
Display	Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 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)	Security Power-on password, hard disk password, supervisor password, security keyhole Security chip VPro (optional) Intel VPro Technology Fingerprint reader Touch style match on chip fingerprint reader on the keyboard bezel Color calibration None
Multi-touch (opt) Pen	Capacitive-type multi-touch, supports 10-finger gesture (4K only) Supports pen accessory, please see the accessory compatibility for details	Battery Integrated Li-Ion 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr) Max battery life Discrete mode: 7.36 hr; Hybrid mode: 13.87 hr (MobileMark® 2014) * Battery life varies significantly with settings, usage, & other factors
Storage RAID (optional)	Up to 2 drives (two M.2 SSD) M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s RAID 0/1 support	AC adapter 135W slim tip AC adapter Preload One of the following, configurable by model:
Optical Ethernet	None Native Intel Ethernet Connection I219-V (<i>Non-vPro</i>) or I219-LM (<i>vPro</i>)) via optional ThinkPad Ethernet Extension Cable	 Windows® 10 Home 64 Windows 10 Pro 64 Windows 10 Pro 64 for Workstations
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	Limited warranty One of the following, configurable by model: 1-year depot repair service 3-year/1-yr battery depot repair service
WWAN SIM card	None None	3-year/1-yr battery limited onsite service
Dimensions	WxDxH (non-touch): 14.24" x 9.67" x 0.72"; 361.8mm x 245.7mm x 18.4mm	Mil-Spec test MIL-STD-810G military certification Environment EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant
Weight	WxDxH (multi-ouch): 14.24" x 9.67" x 0.74"; 361.8mm x 245.7mm x 18.7mm Non-touch model: starting at 3.76 lb (1.7 kg); Multi-touch model: starting at 4.06 lb (1.8 kg)	Environment EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant
Case color Case material	Black Display cover: CFRP/GFRP hybrid; Bottom: Aluminum alloy	
Motor The enecifie	ations above may not be available in all regions	Lenovo

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