

ThinkPad P53 20QN000LPB

Product
ThinkPad P53

Region
EET

Country/Region
Poland

Machine Type
20QN

TopSeller
TopSeller

Processor
Core i7-9850H (6C / 12T, 2.6 / 4.6GHz, 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

Optane Memory
None

RAID
No

Optical
None

WLAN + Bluetooth
Intel AX200 11ax, 2x2 + BT5.0

WWAN
None

SIM Card
None

Smart Card Reader
Smart Card Reader

Monitor Cable
None

Bundled Accessories
None

Color
Black

Camera
720p + IR

Keyboard
Backlit

Pen
None

Fingerprint Reader
Fingerprint Reader

NFC
None

Color Calibrator
None

TPM
Discrete TPM 2.0

Battery
Integrated 90Wh

Power Adapter
170W Slim Tip

System Management
Intel vPro

Operating System
Windows 10 Pro 64

Bundled Software
None

Base Warranty
3-year, Depot

Upsell Service Bundles
None

End of Support
2025-08-23

Announce Date
2019-07-23

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 P53 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> 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	<i>WxDxH (multi-touch):</i> 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm				
	i5-9400H	4	8	2.5 GHz	4.3 GHz	8MB	DDR4-2666	Intel UHD Graphics 630	Weight	<i>Non-touch model:</i> starting at 5.51 lb / 2.5 kg;			
	i7-9750H	6	12	2.6 GHz	4.5 GHz	12MB				<i>Multi-touch model:</i> starting at 6.4 lb / 2.9 kg			
	i7-9850H	6	12	2.6 GHz	4.6 GHz	12MB				Case color		Black	
	i9-9880H	8	16	2.3 GHz	4.8 GHz	16MB						Case material	<i>Display cover:</i> Glass-Fiber Reinforced Plastic;
E-2276M	6	12	2.8 GHz	4.7 GHz	12MB	Intel UHD Graphics P630	<i>Bottom:</i> Magnesium/Aluminum						
Graphics	Intel UHD Graphics 630 or P630 in processor and NVIDIA® Quadro® T1000 (4GB GDDR5), T2000 (4GB GDDR5), RTX 3000 (6GB GDDR6, VR ready), RTX 4000 Max-Q (8GB GDDR6, VR ready), or RTX 5000 Max-Q (16GB GDDR6, VR ready); supports external digital monitor via HDMI, Mini DisplayPort, or Thunderbolt™; supports five independent displays; Max resolution: 5K@60Hz (Thunderbolt); 4K@60Hz (USB-C or HDMI)										Smart card reader	<i>Optional:</i> Smart card reader	
Chipset	Mobile Intel CM246 Chipset										ExpressCard	None	
Memory	128GB max / 2666MHz DDR4 (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets										Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card	
Display	Size	Resolution	Type	Surface	Brightness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Ports	Two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort), two USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of PD and DP), HDMI 2.0, Ethernet (RJ-45), nano-SIM card slot (WWAN models), headphone / microphone combo jack, optional smart card reader, 4-in-1 reader (MMC, SD, SDHC, SDXC), security keyhole		
	15.6"	FHD (1920x1080)	IPS	Anti-glare	300 nits	16:9	700:1	72%	160°	<i>* Power Delivery only supports power-out for charging peripherals</i>			
	15.6"	FHD (1920x1080) HDR 400, Dolby Vision™	IPS	Anti-glare	500 nits	16:9	1200:1	72%	160°	<i>* USB-C Dock is not supported in right-side USB-C port</i>			
	15.6"	UHD (3840x2160) HDR 400, Dolby Vision	IPS	Anti-glare	500 nits	16:9	1200:1	100%	170°	<i>* Depending on many factors, actual data transfer speed may be lower than theoretical speed</i>			
	15.6"	UHD (3840x2160) HDR 500 True Black, Dolby Vision, Multi-touch	OLED	AR, AS	350 nits (peak 400 nits)	16:9	100000:1	100% DCI-P3	170°	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		
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture (UHD only), anti-reflection (AR), anti-smudge (AS) coating										Bundled Accy	None	
Pen	Supports pen accessory, please see the accessory compatibility for details										Camera (optional)	<i>One of the following, configurable by model:</i>	
Storage	<i>Up to 3 drives</i> • HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ • M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4										Audio support	• HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus	
Optane™ memory	<i>Optional:</i> Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2										Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, LED backlight	
RAID (optional)	RAID 0/1/5 support											3-button TrackPoint® pointing device and 3-button Mylar surface multi-touch touchpad	
Optical	None										Security	Power-on password, hard disk password, supervisor password, security keyhole	
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville)										Security chip vPro (optional)	Discrete TPM 2.0, TCG Certified Intel vPro Technology	
WLAN (optional)	Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.0										Fingerprint reader	Touch style match on chip fingerprint reader on the palm rest	
Bluetooth™ (opt)	Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter										Color calibration	<i>Optional:</i> X-Rite Pantone factory color calibration (UHD model only)	
WWAN (optional)	<i>One of the following, configurable by model:</i> • Wireless WAN upgradable • Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card <i>* For non-WWAN model, it means the model is NOT WWAN upgradable</i>										NFC (optional)	Near Field Communication	
SIM card (opt)	Nano-SIM card slot, optional Verizon LTE (US) SIM card										Battery	Integrated Li-ion 90Wh battery, supports Rapid Charge (charge up to 80% in 1hr)	
											Max battery life (MobileMark® 2014)	<i>Discrete mode:</i> 8 hr; <i>Hybrid mode:</i> 13 hr <i>* Battery life varies significantly with settings, usage, & other factors</i>	
											AC adapter	170W or 230W slim tip AC adapter	
											Preload	<i>One of the following, configurable by model:</i> • Windows® 10 Home 64 • Windows 10 Pro 64 • Windows 10 Pro 64 for Workstations	
											Limited warranty	<i>One of the following, configurable by model:</i> • 1-year depot 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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