

ThinkPad P53 20QN000UUK

Product

ThinkPad P53

Region

WE

Country/Region

UK

Machine Type

20QN

TopSeller

TopSeller

Processor

Intel Core i9-9880H (8C / 16T, 2.3 / 4.8GHz, 16MB)

Graphics

NVIDIA Quadro RTX 4000 8GB GDDR6

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

512GB 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 with ThinkShutter

Keyboard

Backlit, English (UK)

Pen

None

Fingerprint Reader

Touch Style, Match-on-Chip

NFC

None

Color Calibrator

None

TPM

Discrete TPM 2.0

Battery

Integrated 90Wh

Power Adapter

230W Slim Tip

System Management

Intel vPro

Operating System

Windows 10 Pro 64, English

Bundled Software

None

Base Warranty

3-year, Depot

Bundled Service

None

End of Support

2025-08-23

Announce Date

2019-07-23

Recommended Services**Best**

5Y Premier Support Upgrade from 3Y Depot/CCI (5WS0V07061)

Better

4Y Premier Support Upgrade from 3Y Depot/CCI (5WS0V07067)

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.

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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	WxDxH (non-touch): 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	WxDxH (multi-touch): 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				
	i7-9750H	6	12	2.6 GHz	4.5 GHz	12MB			Non-touch model: starting at 5.51 lb / 2.5 kg; Multi-touch model: starting at 6.4 lb / 2.9 kg				
	i7-9850H	6	12	2.6 GHz	4.6 GHz	12MB			Case color				
	i9-9880H	8	16	2.3 GHz	4.8 GHz	16MB			Case material				
E-2276M	6	12	2.8 GHz	4.7 GHz	12MB		Intel UHD Graphics P630	Display cover: Glass-Fiber Reinforced Plastic; Bottom: 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 (8GB GDDR6, VR ready), or RTX 5000 (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	Optional: 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°	* Power Delivery only supports power-out for charging peripherals			
	15.6"	FHD (1920x1080) Dolby Vision™ HDR	IPS	Anti-glare	500 nits	16:9	1200:1	72%	160°	* USB-C Dock is not supported in right-side USB-C port			
	15.6"	UHD (3840x2160) Dolby Vision HDR	IPS	Anti-glare	500 nits	16:9	1200:1	100%	170°	* Depending on many factors, actual data transfer speed may be lower than theoretical speed			
	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°	Monitor cable (optional)	HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter USB-C to VGA: Lenovo USB-C to VGA Adapter USB-C to DP: 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)	One of the following, configurable by model: • HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus	
Storage	Up to 3 drives (3x M.2 SSD or 1x HDD + 2x M.2 SSD) • HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ • M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4 * HDD is only available for T1000 and T2000 graphics model										Audio support	HD Audio, Synaptic® CX11880 codec / stereo speakers, 2W x 2 / dual array far-field microphone, headphone / microphone combo jack, Dolby Atmos® sound system	
Optane™ memory	Optional: Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2										Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, LED backlight	
RAID (optional)	RAID 0/1/5 support										UltraNav™	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	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)										Security chip	Discrete TPM 2.0, TCG Certified	
WLAN (optional)	Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.0										vPro (optional)	Intel vPro Technology	
Bluetooth™ (opt)	Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter										Fingerprint reader	Touch style match on chip fingerprint reader on the palm rest	
WWAN (optional)	One of the following, configurable by model: • Wireless WAN upgradable • Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card * For non-WWAN model, it means the model is NOT WWAN upgradable										Color calibration	Optional: X-Rite Pantone factory color calibration (UHD model only)	
SIM card (opt)	Nano-SIM card slot, optional Verizon LTE (US) SIM card										NFC (optional)	Near Field Communication	
											Battery	Integrated Li-ion 90Wh battery, supports Rapid Charge (charge up to 80% in 1hr)	
											Max battery life	Discrete mode: 8 hr; Hybrid mode: 13 hr	
											(MobileMark® 2014)	* Battery life varies significantly with settings, usage, & other factors	
											AC adapter	170W or 230W slim tip AC adapter	
											Operating system	One of the following, configurable by model: • Windows® 10 Home 64 • Windows 10 Pro 64 • Windows 10 Pro 64 for Workstations	
											Limited warranty	One of the following, configurable by model: • 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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