

ThinkPad P53 20QN000FGE

Product

ThinkPad P53

Region

WE

Country/Region

Germany

Machine Type

20QN

TopSeller

TopSeller

Processor

Intel Core i7-9750H (6C / 12T, 2.6 / 4.5GHz, 12MB)

Graphics

NVIDIA Quadro T1000 4GB GDDR5

Chipset

Intel CM246

Memory

2x 8GB DIMM DDR4-2666 non-ECC

Storage

512GB SSD M.2 2280 PCIe NVMe Opal2

Optane Memory

None

RAID

No

Display

15.6" FHD (1920x1080) IPS 300nits Anti-glare, 72% Gamut

Multi-touch

None

Pen

None

Media Reader

4-in-1

Ethernet

100/1000M

Optical

None

WLAN + Bluetooth

Intel AX200 11ax, 2x2 + BT5.0

WWAN

None

SIM Card

None

Smart Card Reader

Smart Card Reader

Monitor Cable

None

Case Material

GFRP (Top), Magnesium / Aluminum (Bottom)

Bundled Accessories

None

Camera

720p with ThinkShutter

Microphone

2x, Array

Color

Black

Keyboard

Backlit, German

Fingerprint Reader

Touch Style, Match-on-Chip

NFC

None

Color Calibrator

None

TPM

Discrete TPM 2.0

Battery

Integrated 90Wh

Power Adapter

170W Slim Tip

System Management

None

Operating System

Windows 10 Pro 64, German

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.

L WWW.LENOVO.COM

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 fitness for a particular purpose.

PSREF <https://psref.lenovo.com>
Visit psref website for the latest version of Product Specifications Reference.
© Lenovo, 2019. All rights reserved.



Lenovo™

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; <i>Multi-touch model:</i> starting at 6.4 lb / 2.9 kg	
	i7-9750H	6	12	2.6 GHz	4.5 GHz	12MB								
	i7-9850H	6	12	2.6 GHz	4.6 GHz	12MB								
	i9-9880H	8	16	2.3 GHz	4.8 GHz	16MB								
E-2276M	6	12	2.8 GHz	4.7 GHz	12MB	Intel UHD Graphics P630			Case color	Black				
Case material		<i>Display cover:</i> Glass-Fiber Reinforced Plastic; <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 (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	<i>Optional:</i> Smart card reader		
											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), 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 <i>* Power Delivery only supports power-out for charging peripherals</i> <i>* USB-C Dock is not supported in right-side USB-C port</i> <i>* Depending on many factors, actual data transfer speed may be lower than theoretical speed</i>		
Chipset	Mobile Intel CM246 Chipset										Monitor cable	<i>(optional)</i> HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter		
Memory	128GB max / 2666MHz DDR4 (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets										USB-C to VGA: Lenovo USB-C to VGA Adapter			
Display	Size	Resolution	Type	Surface	Brightness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	USB-C to DP: Lenovo USB-C to DisplayPort Adapter				
	15.6"	FHD (1920x1080)	IPS	Anti-glare	300 nits	16:9	700:1	72%	160°	Bundled Accy				
	15.6"	FHD (1920x1080) Dolby Vision™ HDR	IPS	Anti-glare	500 nits	16:9	1200:1	72%	160°	Camera <i>(optional)</i>				
	15.6"	UHD (3840x2160) Dolby Vision HDR	IPS	Anti-glare	500 nits	16:9	1200:1	100%	170°	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				
	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°	Audio support				
Multi-touch <i>(opt)</i>	Capacitive-type multi-touch, supports 10-finger gesture (UHD only), anti-reflection (AR), anti-smudge (AS) coating										HD Audio, Synaptic® CX11880 codec / stereo speakers, 2W x 2 / optional dual array far-field microphone, headphone / microphone combo jack, Dolby Atmos® sound system			
Pen <i>(optional)</i>	Lenovo Pen Pro (special bid only)										Keyboard UltraNav™			
Storage	Up to 3 drives (3x M.2 SSD or 1x HDD + 2x M.2 SSD), supports single sided M.2 2280 drives only • HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ • M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4 <i>* HDD is only available for T1000 and T2000 graphics model</i>										6-row, spill-resistant, multimedia Fn keys, numeric keypad, LED backlight			
Optane™ memory	Optional: Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2										3-button TrackPoint® pointing device and 3-button Mylar surface multi-touch touchpad			
RAID <i>(optional)</i>	RAID 0/1/5 support										Security			
Optical	None										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			
WLAN <i>(optional)</i>	Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.0										Discrete TPM 2.0, TCG Certified			
Bluetooth™ <i>(opt)</i>	Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter										vPro <i>(optional)</i>			
WWAN <i>(optional)</i>	One of the following, configurable by model: • Wireless WAN upgradable (special bid only in EMEA) • 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>										Intel vPro Technology			
SIM card <i>(opt)</i>	Nano-SIM card slot, optional Verizon LTE (US) SIM card										Fingerprint reader			
											Color calibration	Touch style match on chip fingerprint reader on the palm rest		
											NFC <i>(optional)</i>	Optional: X-Rite Pantone factory color calibration (UHD model only)		
											Battery	Integrated Li-ion 90Wh battery, supports Rapid Charge (charge up to 80% in 1hr)		
											Max battery life	<i>Discrete mode:</i> 8 hr; <i>Hybrid mode:</i> 13 hr <i>(MobileMark® 2014)</i> <i>* Battery life varies significantly with settings, usage, & other factors</i>		
											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.

Lenovo
November 2019

Lenovo

ThinkPad P53

