

ThinkPad P53 20QN0006GE

Product

ThinkPad P53

Region

WE

Country/Region

Germany

Machine Type

20QN

TopSeller

TopSeller

Processor

Intel Core i7-9850H (6C / 12T, 2.6 / 4.6GHz, 12MB)

Graphics

NVIDIA Quadro RTX 3000 6GB GDDR6

Chipset

Intel CM246

Memory

2x 16GB 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 500nits Anti-glare, 72% Gamut, Dolby Vision HDR

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 + IR 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

230W Slim Tip

System Management

Intel vPro

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.

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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								<p>Dimensions <i>WxDxH (non-touch):</i> 14.86" x 9.93" x 0.96-1.16"; <i>WxDxH (multi-touch):</i> 14.86" x 9.93" x 1.02-1.21"; <i>377.4mm x 252.3mm x 24.5-29.4mm</i></p> <p>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</p> <p>Case color Black</p> <p>Case material <i>Display cover:</i> Glass-Fiber Reinforced Plastic; <i>Bottom:</i> Magnesium/Aluminum</p>																																													
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics																																														
	i5-9400H	4	8	2.5 GHz	4.3 GHz	8MB	DDR4-2666	Intel UHD Graphics 630																																														
	i7-9750H	6	12	2.6 GHz	4.5 GHz	12MB		Intel UHD Graphics P630																																														
	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																																																
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)																																																					
Chipset	Mobile Intel CM246 Chipset																																																					
Memory	128GB max / 2666MHz DDR4 (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets																																																					
Display	<table border="1"> <thead> <tr> <th>Size</th><th>Resolution</th><th>Type</th><th>Surface</th><th>Brightness</th><th>Aspect Ratio</th><th>Contrast Ratio</th><th>Color Gamut</th><th>Viewing Angle</th></tr> </thead> <tbody> <tr> <td>15.6" FHD (1920x1080)</td><td>IPS</td><td>Anti-glare</td><td>300 nits</td><td>16:9</td><td>700:1</td><td>72%</td><td>160°</td><td></td></tr> <tr> <td>15.6" FHD (1920x1080) Dolby Vision™ HDR</td><td>IPS</td><td>Anti-glare</td><td>500 nits</td><td>16:9</td><td>1200:1</td><td>72%</td><td>160°</td><td></td></tr> <tr> <td>15.6" UHD (3840x2160) Dolby Vision HDR</td><td>IPS</td><td>Anti-glare</td><td>500 nits</td><td>16:9</td><td>1200:1</td><td>100%</td><td>170°</td><td></td></tr> <tr> <td>15.6" UHD (3840x2160) Dolby Vision HDR, Multi-touch</td><td>OLED</td><td>Anti-reflection / Anti-smudge</td><td>SDR 400nit, HDR 500nit (peak)</td><td>16:9</td><td>100000:1</td><td>100% DCI-P3</td><td>170°</td><td></td></tr> </tbody> </table>	Size	Resolution	Type	Surface	Brightness		Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	15.6" FHD (1920x1080)	IPS	Anti-glare	300 nits	16:9	700:1	72%	160°		15.6" FHD (1920x1080) Dolby Vision™ HDR	IPS	Anti-glare	500 nits	16:9	1200:1	72%	160°		15.6" UHD (3840x2160) Dolby Vision HDR	IPS	Anti-glare	500 nits	16:9	1200:1	100%	170°		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°		<p>Smart card reader <i>Optional:</i> Smart card reader</p> <p>ExpressCard None</p> <p>Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card</p>						
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	<p>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</p> <p>* Power Delivery only supports power-out for charging peripherals</p> <p>* USB-C Dock is not supported in right-side USB-C port</p> <p>* Depending on many factors, actual data transfer speed may be lower than theoretical speed</p>																																																					
	<p>Monitor cable (optional) <i>HDMI to VGA:</i> Lenovo HDMI to VGA Monitor Adapter</p> <p>USB-C to VGA: Lenovo USB-C to VGA Adapter</p> <p>USB-C to DP: Lenovo USB-C to DisplayPort Adapter</p>																																																					
	<p>Bundled Accy None</p> <p>Camera (optional) <i>One of the following, configurable by model:</i></p> <ul style="list-style-type: none"> • HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus <p>Audio support HD Audio, Synaptics® CX11880 codec / stereo speakers, 2W x 2 / optional dual array far-field microphone, headphone / microphone combo jack, Dolby Atmos® sound system</p>																																																					
	<p>Keyboard 6-row, spill-resistant, multimedia Fn keys, numeric keypad, LED backlight</p> <p>UltraNav™ 3-button TrackPoint® pointing device and 3-button Mylar surface multi-touch touchpad</p>																																																					
	<p>Security Power-on password, hard disk password, supervisor password, security keyhole</p> <p>Security chip Discrete TPM 2.0, TCG Certified</p> <p>vPro (optional) Intel vPro Technology</p>																																																					
	<p>Fingerprint reader Touch style match on chip fingerprint reader on the palm rest</p> <p>Color calibration <i>Optional:</i> X-Rite Pantone factory color calibration (UHD model only)</p> <p>NFC (optional) Near Field Communication</p>																																																					
	<p>Battery Integrated Li-ion 90Wh battery, supports Rapid Charge (charge up to 80% in 1hr)</p> <p>Max battery life (MobileMark® 2014) 8 hr; <i>Hybrid mode:</i> 13 hr</p> <p>* Battery life varies significantly with settings, usage, & other factors</p>																																																					
	<p>AC adapter 170W or 230W slim tip AC adapter</p> <p>Operating system <i>One of the following, configurable by model:</i></p> <ul style="list-style-type: none"> • Windows® 10 Home 64 • Windows 10 Pro 64 • Windows 10 Pro 64 for Workstations 																																																					
	<p>Limited warranty <i>One of the following, configurable by model:</i></p> <ul style="list-style-type: none"> • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service 																																																					
	<p>Mil-Spec test MIL-STD-810G military testing</p> <p>Environment EPEAT™ Silver; ENERGY STAR® 7.1; RoHS-compliant</p>																																																					

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

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