ThinkPad P53 20QN0009UK

Product
ThinkPad P53

Region
WE

Country/Region
UK

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 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

Processor 9th Generation Intel® Core™ i5 / i7 / i9 Processor or Intel Xeon® E Processor

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		
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

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

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°

Multi-touch *(opt)* Capacitive-type multi-touch, supports 10-finger gesture (UHD only), anti-reflection (AR), anti-smudge (AS) coating

Pen Supports pen accessory, please see the accessory compatibility for details

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*

Optane™ memory *Optional:* Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2

RAID *(optional)* RAID 0/1/5 support

Optical None

Ethernet *Non-vPro model:* Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN *(optional)* Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.0

Bluetooth™ *(opt)* Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

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*

SIM card *(opt)* Nano-SIM card slot, optional Verizon LTE (US) SIM card

Dimensions *WxDxH (non-touch):* 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm
WxDxH (multi-touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm

Weight *Non-touch model:* starting at 5.51 lb / 2.5 kg;
Multi-touch model: starting at 6.4 lb / 2.9 kg

Case color Black

Case material *Display cover:* Glass-Fiber Reinforced Plastic;
Bottom: Magnesium/Aluminum

Smart card reader *Optional:* 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
** Power Delivery only supports power-out for charging peripherals*
** USB-C Dock is not supported in right-side USB-C port*
** Depending on many factors, actual data transfer speed may be lower than theoretical speed*

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

Bundled Accy None

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

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

Keyboard 6-row, spill-resistant, multimedia Fn keys, numeric keypad, LED backlight

UltraNav™ 3-button TrackPoint® pointing device and 3-button Mylar surface multi-touch touchpad

Security Power-on password, hard disk password, supervisor password, security keyhole

Security chip Discrete TPM 2.0, TCG Certified

vPro *(optional)* Intel vPro Technology

Fingerprint reader Touch style match on chip fingerprint reader on the palm rest

Color calibration *Optional:* X-Rite Pantone factory color calibration (UHD model only)

NFC *(optional)* Near Field Communication

Battery Integrated Li-ion 90Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

Max battery life (*MobileMark® 2014*) *Discrete mode:* 8 hr; *Hybrid mode:* 13 hr
** 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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