

ThinkPad P52 20M9002SGE

Product
ThinkPad P52

Region
WE

Country
Germany

Machine Type
20M9

TopSeller
TopSeller

Processor
Core i9-8950HK (6C / 12T, 2.9 / 4.8GHz, 12MB)

Graphics
NVIDIA Quadro P3200 6GB GDDR5

Chipset
Intel CM246

Memory
2x 16GB DIMM DDR4-2400 non-ECC

Display
15.6" FHD (1920x1080) IPS

Multi-touch
None

Storage
1TB SSD M.2 2280 PCIe NVMe Opal2

Optane Memory
None

RAID
No

Optical
None

WLAN + Bluetooth
Intel 9560 ac, 2x2 + BT5.0

WWAN
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

TPM
Discrete TPM 2.0

Battery
Swappable 90Wh

Power Adapter
170W Slim Tip

System Management
None

Operating System
Windows 10 Pro 64

Bundled Software
None

Warranty
3-year, Onsite

End of Support
2025-04-19

Announce Date
2019-03-19

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.

<https://www.lenovo.com/hk/en/battery-info>



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ThinkPad P52 Platform Specifications

Product Specifications Reference (PSREF)

Processor	8th Generation Intel® Core™ i7 Processor or Intel Xeon® E Processor								Dimensions	WxDxH: 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	Weight	WxDxH(Touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm	
	i7-8750H	6	12	2.2 GHz	4.1 GHz	9MB	DDR4-2400	Intel UHD Graphics 630	Case color	Black	
	i7-8850H			2.6 GHz	4.3 GHz	9MB			Case material	Display cover: PPS;	
	i9-8950HK			2.9 GHz	4.8 GHz	12MB			Bottom: Magnesium/Aluminum		
E-2176M	2.7 GHz			4.4 GHz	12MB	Intel UHD Graphics P630		Smart card reader	Optional: Smart card reader		
Graphics	Intel UHD Graphics 630 or P630 in processor and NVIDIA Quadro® P1000 (4GB memory), P2000 (4GB memory), or P3200 (6GB memory, VR ready); supports external digital monitor via HDMI, Mini DisplayPort, or Thunderbolt™; supports four independent displays; Max resolution: 3840X2160 @60Hz (DisplayPort via Mini DisplayPort cable); 5120X2880 @30Hz (Thunderbolt); 4096x2160 @60Hz (HDMI)								ExpressCard	None	
Chipset	Mobile Intel CM246 Chipset								Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card	
Memory	128GB non-ECC or 64GB ECC max / 2400MHz DDR4 (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets * Installed DIMMs are actually 2666MHz but run at 2400MHz due to Intel limitation * 128GB non-ECC memory for special bid only								Ports	Three USB 3.1 Gen 1 (one Always On), two USB Type-C / Thunderbolt 3 (with the function of Power Delivery and DP), Mini DisplayPort 1.4, 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 * Depending on many factors, actual data transfer speed may be lower than theoretical speed	
Display	Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 160° viewing angle Some: 15.6" (396mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 400 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 100% gamut, 170° viewing angle, multi-touch								Camera (optional)	One of the following, configurable by model: • HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera, fixed focus	
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture (4K only)								Audio support	HD Audio, Realtek® ALC3286 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo jack, Dolby Atmos® headphone	
Pen	Supports pen accessory, please see the accessory compatibility for details								Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, LED backlight	
Storage	Up to 3 drives (two M.2 SSD and one HDD) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: 16GB Intel Optane™ memory, PCIe NVMe, PCIe 3.0 x 2, 16Gb/s								UltraNav™	3-button TrackPoint® pointing device and 3-button Mylar surface multi-touch touchpad	
RAID (optional)	RAID 0/1 support								Security	Power-on password, hard disk password, supervisor password, security keyhole	
Optical	None								Security chip	Discrete TPM 2.0, TCG Certified	
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)								vPro (optional)	Intel vPro Technology	
WLAN	Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card								Fingerprint reader	Touch style match on chip fingerprint reader on the palm rest	
Bluetooth™	Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Color calibration	None	
WWAN (optional)	Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card								NFC (optional)	Near Field Communication	
SIM card (opt)	Nano-SIM card slot, optional Verizon LTE (US) SIM card								Battery	Li-ion 90Wh battery	
									Max battery life	Discrete mode: 6.1 hr; Hybrid mode: 8.9 hr	
									(MobileMark® 2014)	* Battery life varies significantly with settings, usage, & other factors	
									AC adapter	170W slim tip AC adapter	
									Preload	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 certification	
									Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant	

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

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