



## Lenovo ThinkPad P53 Intel® Core™ i7 i7-9850H Mobile workstation 39,6 cm (15.6") Full HD 32 GB DDR4-SDRAM 512 GB SSD NVIDIA Quadro RTX 3000 Wi-Fi 6 (802.11ax) Windows 10 Pro Black



**Brand :** Lenovo

**Product family:** ThinkPad

**Product code:** 20QNS01B00

**Product name :** P53

- Windows 10 Pro 64-bit  
- Intel Core i7-9750H (12MB Cache, 2.6GHz)  
- 39.6 cm (15.6") Full HD 1920 x 1080 IPS, NVIDIA Quadro T1000 (4GB GDDR6)  
- 16GB (2666MHz) DDR4-SDRAM (2 x 8) & 512GB SSD  
Intel Core i7-9850H (12MB Cache, 2.6GHz), 32GB DDR4-SDRAM, 512GB SSD, 39.6 cm (15.6") Full HD 1920 x 1080 IPS, Intel UHD Graphics 630, NVIDIA Quadro RTX 3000 (6GB GDDR6), LAN, WLAN, Webcam, Windows 10 Pro 64-bit  
Lenovo ThinkPad P53. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-9850H, Processor frequency: 2,6 GHz. Display diagonal: 39,6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 32 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics 630. Operating system installed: Windows 10 Pro. Product colour: Black



Design		Ports & interfaces	
Product type *	Mobile workstation	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Product colour *	Black	USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Form factor *	Clamshell	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2
Housing material	Aluminium, Glass Fibre Reinforced Plastic (GFRP), Magnesium	Ethernet LAN (RJ-45) ports	1
Display		HDMI ports quantity *	1
Display diagonal *	39,6 cm (15.6")	HDMI version	2.0
Display resolution *	1920 x 1080 pixels	Combo headphone/mic port	✓
Touchscreen *	✗	USB Type-C DisplayPort Alternate Mode	✓
HD type	Full HD	USB Sleep-and-Charge	✓
Panel type	IPS	USB Sleep-and-Charge ports	1
LED backlight	✓	Performance	
Native aspect ratio	16:9	Motherboard chipset	Intel® CM246
Display brightness	500 cd/m²	Keyboard	
Dual-screen	✗	Pointing device	ThinkPad UltraNav
Processor		Numeric keypad *	✓
Processor manufacturer *	Intel	Keyboard backlight	✓
Processor family *	Intel® Core™ i7	Spill-resistant keyboard	✓
Processor generation	9th gen Intel® Core™ i7	Windows keys	✓
Processor model *	i7-9850H	Software	
Processor cores	6	Operating system architecture	64-bit
Processor threads	12	Operating system installed *	Windows 10 Pro
Processor boost frequency	4,6 GHz	Processor special features	
Processor frequency *	2,6 GHz	Intel® My WiFi Technology (Intel® MWT)	✓
System bus rate	8 GT/s	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor cache	12 MB	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cache type	Smart Cache	Intel® Turbo Boost Technology	2.0
Processor socket	BGA 1440	Enhanced Intel SpeedStep Technology	✓
Processor lithography	14 nm		
Processor operating modes	64-bit		
Processor codename	Coffee Lake		
Thermal Design Power (TDP)	45 W		
Configurable TDP-down	35 W		
Tjunction	100 °C		

Processor		Processor special features	
Maximum number of PCI Express lanes	16	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
PCI Express slots version	3.0	Intel Clear Video Technology	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® InTru™ 3D Technology	✓
Memory		Intel® Quick Sync Video Technology	✓
Internal memory *	32 GB	Intel Flex Memory Access	✓
Internal memory type	DDR4-SDRAM	Intel® AES New Instructions (Intel® AES-NI)	✓
Memory clock speed	2666 MHz	Intel Trusted Execution Technology	✓
Memory form factor	SO-DIMM	Intel VT-x with Extended Page Tables (EPT)	✓
Memory layout (slots x size)	2 x 16 GB	Intel® Secure Key	✓
Memory slots	4x SO-DIMM	Intel TSX-NI	✓
Maximum internal memory *	128 GB	Intel Stable Image Platform Program (SIPP)	✓
ECC	✗	Intel® OS Guard	✓
Storage		Intel Software Guard Extensions (Intel SGX)	✓
Total storage capacity *	512 GB	Intel 64	✓
Storage media *	SSD	Execute Disable Bit	✓
Total SSDs capacity	512 GB	Idle States	✓
Number of SSDs installed	1	Thermal Monitoring Technologies	✓
SSD capacity	512 GB	Processor package size	42 x 28 mm
SSD interface	NVMe, PCI Express	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
NVMe	✓	CPU configuration (max)	1
SSD form factor	M.2	Embedded options available	✗
Optical drive type *	✗	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Card reader integrated	✓	Intel Virtualization Technology (VT-x)	✓
Compatible memory cards	MMC, SD, SDHC, SDXC	Processor ARK ID	191047
Graphics		Battery	
Discrete graphics card model *	NVIDIA Quadro RTX 3000	Battery technology	Lithium-Ion (Li-Ion)
Discrete graphics card memory	6 GB	Battery capacity *	90 Wh
Discrete graphics memory type	GDDR6	Fast charging	✓
On-board graphics card *	✓	Power	
Discrete graphics card *	✓	AC adapter frequency	50 - 60 Hz
On-board graphics card model *	Intel® UHD Graphics 630	AC adapter input voltage	100 - 240 V
On-board graphics card base frequency	350 MHz	DC-in jack	✓
On-board graphics card dynamic frequency (max)	1150 MHz	USB Power Delivery	✓
Maximum on-board graphics card memory	64 GB	Security	
On-board graphics card DirectX version	12.0	Cable lock slot	✓
On-board graphics card OpenGL version	4.5	Fingerprint reader	✓
On-board graphics card ID	0x3E9B	Smart card reader	✓
Audio		Trusted Platform Module (TPM)	✓
Audio chip	Conexant CX11880	Password protection	✓
Number of built-in speakers	2	Password protection type	HDD, Power on, Supervisor
Speaker power	2 W	Certificates	
Built-in microphone	✓	Compliance certificates	RoHS
Camera		Certification	MIL-STD-810G
Front camera	✓	Sustainability	
Front camera signal format	720p	Sustainability certificates	ENERGY STAR
Front camera HD type	HD	Weight & dimensions	
Infrared (IR) camera	✓	Width	377,4 mm
Privacy camera	✓	Depth	252,3 mm
Privacy type	Privacy shutter	Height (front)	2,45 cm
Auto focus	✗		

Network		Weight & dimensions	
Wi-Fi	✓	Height (rear)	2,94 cm
Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)	Weight *	2,5 kg
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax)	Packaging content	
Mobile network connection *	✗	AC adapter included *	✓
Antenna type	2x2	Other features	
WLAN controller model	Intel Wi-Fi 6 AX200	3D	✗
Ethernet LAN	✓	Maximum internal memory (64-bit)	128 GB
Ethernet LAN data rates	10,100,1000 Mbit/s		
Bluetooth	✓		
Bluetooth version	5.1		

## Catalog Object Cloud



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