



Lenovo ThinkPad P52 i7-8850H Mobile workstation 39.6 cm (15.6") Full HD Intel® Core™ i7 16 GB DDR4-SDRAM 512 GB SSD NVIDIA® Quadro® P2000 Wi-Fi 5 (802.11ac) Windows 10 Pro Black



Brand : Lenovo

Product family: ThinkPad

Product code: 20M90017UK

Product name : P52

Intel Core i7-8850H (2.6GHz, Cache 9MB, 6 Cores), 15.6" Full HD (1920 x 1080), 16GB DDR4, 512GB SSD, Intel UHD Graphics 630 + NVIDIA Quadro P2000 (4GB), Gigabit LAN, WLAN 802.11ac, Bluetooth 4.1, Windows 10 Pro 64-bit

Lenovo ThinkPad P52. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-8850H, Processor frequency: 2.6 GHz. Display diagonal: 39.6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 16 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-C ports quantity *	2
Product colour *	Black	Ethernet LAN (RJ-45) ports	1
Form factor *	Clamshell	HDMI ports quantity *	1
Housing material	Aluminium, Magnesium	HDMI version	2.0
Display		Mini DisplayPorts quantity	1
Display diagonal *	39.6 cm (15.6")	Headphone outputs	1
Display resolution *	1920 x 1080 pixels	Microphone in	✗
Touchscreen *	✗	Combo headphone/mic port	✓
HD type	Full HD	Docking connector	✓
Panel type	IPS	Charging port type	DC-in jack
LED backlight	✓	USB Sleep-and-Charge	✓
Native aspect ratio	16:9	USB Sleep-and-Charge ports	1
Display surface	Matt	Keyboard	
Display brightness	300 cd/m²	Pointing device	ThinkPad UltraNav
Contrast ratio (typical)	700:1	Numeric keypad *	✓
Processor		Keyboard backlit	✓
Processor manufacturer *	Intel	Spill-resistant keyboard	✓
Processor generation	8th gen Intel® Core™ i7	Windows keys	✓
Processor model *	i7-8850H	Software	
Processor family *	Intel® Core™ i7	Operating system architecture	64-bit
Processor frequency *	2.6 GHz	Operating system installed *	Windows 10 Pro
Processor boost frequency	4.3 GHz	Processor special features	
Processor cores	6	Intel® My WiFi Technology (Intel® MWT)	✓
Processor threads	12	Intel® Identity Protection Technology (Intel® IPT)	✓
System bus rate	8 GT/s	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cache	9 MB	Intel® Turbo Boost Technology	2.0
Processor cache type	Smart Cache	Enhanced Intel SpeedStep Technology	✓
Processor socket	BGA1440	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor lithography	14 nm	Intel Clear Video Technology	✓
Processor operating modes	64-bit	Intel® InTru™ 3D Technology	✓
Processor codename	Coffee Lake	Intel® Quick Sync Video Technology	✓
Bus type	DMI	Intel Flex Memory Access	✓
Motherboard chipset	Intel® CM246	Intel® AES New Instructions (Intel® AES-NI)	✓
Thermal Design Power (TDP)	45 W		
Configurable TDP-down	35 W		
Configurable TDP-down frequency	2.1 GHz		
Tjunction	100 °C		
Maximum number of PCI Express lanes	16		

Processor		Processor special features	
PCI Express slots version	3.0	Intel Trusted Execution Technology	✗
PCI Express configurations	1x16, 1x8+2x4, 2x8	Intel Enhanced Halt State	✓
ECC supported by processor	✗	Intel VT-x with Extended Page Tables (EPT)	✓
Memory		Intel® Secure Key	✓
Internal memory *	16 GB	Intel TSX-NI	✓
Internal memory type	DDR4-SDRAM	Intel Stable Image Platform Program (SIPP)	✓
Memory clock speed	2400 MHz	Intel® OS Guard	✓
Memory form factor	SO-DIMM	Intel Software Guard Extensions (Intel SGX)	✓
Memory layout (slots x size)	2 x 8 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Memory slots	4x SO-DIMM	Intel 64	✓
ECC	✗	Execute Disable Bit	✓
Storage		Idle States	✓
Total storage capacity *	512 GB	Thermal Monitoring Technologies	✓
Storage media *	SSD	Processor package size	42 x 28 mm
Number of SSDs installed	1	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
SSD capacity	512 GB	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 Identity Protection Technology version	1.00
Compatible memory cards	MMC, SD, SDHC, SDXC	Intel Stable Image Platform Program (SIPP) version	1.00
Graphics		Intel Secure Key Technology version	1.00
Discrete graphics card model *	NVIDIA® Quadro® P2000	Intel TSX-NI version	1.00
On-board graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card *	✓	Processor ARK ID	134899
On-board graphics card family	Intel® UHD Graphics	Battery	
On-board graphics card model *	Intel® UHD Graphics 630	Battery technology	Lithium-Ion (Li-Ion)
On-board graphics card base frequency	350 MHz	Number of battery cells	6
On-board graphics card dynamic frequency (max)	1150 MHz	Battery capacity *	90 Wh
Maximum on-board graphics card memory	64 GB	Power	
On-board graphics card DirectX version	12.0	AC adapter power	170 W
On-board graphics card OpenGL version	4.5	AC adapter frequency	50 - 60 Hz
On-board graphics card ID	0x3E9B	AC adapter input voltage	100 - 240 V
Discrete graphics card memory	4 GB	Security	
Audio		Cable lock slot	✓
Audio chip	Realtek ALC3286	Fingerprint reader	✓
Audio system	Dolby Audio Premium	Trusted Platform Module (TPM)	✓
Number of built-in speakers	2	Password protection	✓
Speaker power	2 W	Password protection type	HDD, Power on, Supervisor
Built-in microphone	✓	Sustainability	
Number of microphones	2	Sustainability certificates	RoHS, EPEAT Gold, ENERGY STAR
Camera		Weight & dimensions	
Front camera	✓	Width	377.4 mm
Front camera resolution	1280 x 720 pixels	Depth	252.3 mm
Front camera signal format	720p	Height (front)	2.45 cm
Front camera HD type	HD	Height (rear)	2.94 cm
Auto focus	✗	Weight *	2.45 kg
Network		Packaging content	
Wi-Fi	✓	Manual	✓
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)	Power cord included	✓
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)		
Ethernet LAN	✓		
Ethernet LAN data rates	10,100,1000 Mbit/s		
Bluetooth	✓		

Network		Other features	
Bluetooth version	5.0	AC adapter included	✓
Near Field Communication (NFC)	✗	3D	✗
WWAN	Not installed		
Ports & interfaces			
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3		



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