



Lenovo ThinkPad P52 Intel Core i7 i7-8750H Mobile workstation 39,6 sentimetro (15.6") Buong HD 16 GB DDR4-SDRAM 512 GB SSD NVIDIA Quadro P1000 Wi-Fi 5 (802.11ac) Windows 10 Pro Itim



Brand : Lenovo

Product family: ThinkPad

Product code: 20M9001GMX

Product name : ThinkPad P52

Lenovo ThinkPad P52. Uri ng produkto: Mobile workstation, Salik ng form: kabibi. Pamilya ng processor: Intel Core i7, Modelo ng processor: i7-8750H, Prikwensiya ng processor: 2,2 GHz. Ipakita ang dayagonal: 39,6 sentimetro (15.6"), Uri ng HD: Buong HD, Resolusyon ng display: 1920 x 1080 (mga) pixel. Panloob na memory: 16 GB, Uri ng panloob na memory: DDR4-SDRAM. Kabuuang kapasidad ng storage: 512 GB, Storage media: SSD. On-board na modelo ng graphics card: Intel UHD Graphics 630. Naka-install ang operating system: Windows 10 Pro. Kulay ng produkto: Itim



Disenyo		Mga port at interface	
Uri ng produkto *	Mobile workstation	Bersyon ng HDMI	2.0
Kulay ng produkto *	Itim	Dami ng Mini DisplayPorts	1
Salik ng form *	kabibi	Mga output ng headphone	1
Materyal sa pabahay	Aluminyo, Magnesium	Nakapasok ang mikropono	✗
Display		Combo headphone/mic port	✓
Ipakita ang dayagonal *	39,6 sentimetro (15.6")	Connector ng pag-dock	✓
Resolusyon ng display *	1920 x 1080 (mga) pixel	SmartCard slot	✓
Touchscreen *	✗	USB Sleep-and-Charge	✓
Uri ng HD	Buong HD	Mga port ng USB Sleep-and-Charge port	1
Uri ng panel	IPS	Pagganap	
LED backlight	✓	Chipset ng motherboard	Intel CM246
Native na aspect ratio	16:9	Keyboard	
Panlabas na display	Matt	Aparato sa pagturo	ThinkPad UltraNav
Processor		Numeric na keypad *	✓
Gumagawa ng processor *	Intel	Backlit ng keyboard	✓
Pamilya ng processor *	Intel Core i7	Keyboard na hindi tinatablan ng pagbuhos	✓
Henerasyon ng processor	Intel Core i7-8xxx	Mga key sa Windows	✓
Modelo ng processor *	i7-8750H	Software	
Mga core ng processor	6	Arkitektura ng operating system	64-bit
Mga thread ng processor	12	Naka-install ang operating system *	Windows 10 Pro
Prikwensiya ng pagpapalakas ng processor	4,1 GHz	Mga espesyal na feature ng processor	
Prikwensiya ng processor *	2,2 GHz	Intel® My WiFi Technology (Intel® MWT)	✓
Rate ng bus ng system	8 GT/s	Intel® Identity Protection Technology (Intel® IPT)	✓
Cache ng processor	9 MB	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Uri ng cache ng processor	Smart Cache	Intel® Turbo Boost Technology	2.0
Socket ng processor	BGA 1440	Pinahusay na Intel SpeedStep Technology	✓
Lithography ng processor	14 nm	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Mga mode ng pagpapatakbo ng processor	64-bit	Intel Clear Video Technology	✓
Codename ng processor	Coffee Lake	Intel® InTru™ 3D Technology	✓
Uri ng bus	DMI	Intel® Quick Sync Video Technology	✓
Paghakbang	U0		
Thermal Design Power (TDP)	45 W		
Nako-configure na TDP-down	35 W		
Nako-configure na prikwensiya ng TDP-down	1,7 GHz		
Tjunction	100 °C		

Processor		Mga espesyal na feature ng processor	
Maximum na bilang ng mga linya ng PCI Express	16	Intel Flex Memory Access	✓
Bersyon ng mga slot ng PCI Express	3.0	Intel® AES Bagong Mga Tagubilin (Intel® AES-NI)	✓
Mga pagsasaayos ng PCI Express	1x16, 1x8+2x4, 2x8	Intel Trusted Execution Technology	✗
Suportado ng processor ng ECC	✗	Intel Enhanced Halt State	✓
Memory		Intel VT-x na may Extended Page Tables (EPT)	✓
Panloob na memory *	16 GB	Intel® Secure Key	✓
Uri ng panloob na memory	DDR4-SDRAM	Intel TSX-NI	✗
Bilis ng orasan ng memory	2400 MHz	Intel Stable Image Platform Program (SIPP)	✗
Salik ng anyo ng memory	SO-DIMM	Intel® OS Guard	✓
Mga puwang ng memory	4x SO-DIMM	Mga Extension ng Intel Software Guard (Intel SGX)	✓
Maximum na panloob na memory *	64 GB	Intel® Clear Video Technology para sa Mga Mobile Internet Device (Intel CVT para sa MID)	✓
Storage		Intel 64	✓
Kabuuang kapasidad ng storage *	512 GB	Ipatupad ang Disable Bit	✓
Storage media *	SSD	Idle States	✓
Bilang ng mga SSD na naka-install	1	Thermal Monitoring Technologies	✓
Kapasidad ng SSD	512 GB	Laki ng package ng processor	42 x 28 milimetro
Form factor ng SSD	M.2	Mga suportadong set ng pagtuturo	AVX 2.0, SSE4.1, SSE4.2
Uri ng optical drive *	✗	Code ng processor	SR3YY
Isinama ang card reader	✓	Configuration ng CPU (max)	1
Mga katugmang memory card	MMC, SD, SDHC, SDXC	Available ang mga naka-embed na opsyon	✗
Mga graphic		Intel Virtualization Technology para sa Nakadirektang I/O (VT-d)	✓
Discrete na modelo ng graphics card *	NVIDIA Quadro P1000	Bersyon ng Intel Identity Protection Technology	1,00
Discrete memory ng graphics card	4 GB	Bersyon ng Intel Stable Image Platform Program (SIPP)	0,00
On-board na graphics card *	✓	Bersyon ng Intel Secure Key Technology	1,00
Discrete na graphics card *	✓	Bersyon ng Intel TSX-NI	0,00
Pamilya ng on-board ng graphics card	Intel UHD Graphics	Intel Virtualization Technology (VT-x)	✓
On-board na modelo ng graphics card *	Intel UHD Graphics 630	Processor ARK ID	134906
On-board na prikwensiya ng graphics card base	350 MHz	Baterya	
On-board na prikwensiya ng graphics card dynamic (max)	1100 MHz	Teknolohiya ng baterya	Lithium-Ion (Li-Ion)
Maximum na memory ng on-board graphics card	64 GB	Bilang ng mga cell ng baterya	6
Bersyon ng DirectX sa on-board na graphics card	12.0	Kapasidad ng baterya *	90 Wh
Bersyon ng OpenGL ng on-board na graphics card	4.5	Kuryente	
On-board na graphics card ID	0x3E9B	Kuryente ng AC adapter	170 W
Audio		Dalas ng AC adapter	50 - 60 Hz
Audio chip	Realtek ALC3286	Boltahe ng input ng AC adapter	100 - 240 V
Sistema ng audio	Dolby Audio Premium	DC-in jack	✓
Bilang ng mga built-in na speaker	2	Seguridad	
Lakas ng speaker	2 W	Puwang ng lock ng cable	✓
Built-in na mikropono	✓	Reader ng fingerprint	✓
Bilang ng mga mikropono	2	Trusted Platform Module (TPM)	✓
Camera		Proteksyon ng password	✓
Camera sa harap	✓	Uri ng proteksyon ng password	HDD, Power on, Superbisor
Resolusyon ng camera sa harap	1280 x 720 (mga) pixel	Mga sertipiko	
Front camera signal format	720p	Compliance certificates	RoHS
HD na uri ng camera sa harap	HD	Pagpapanatili	
Awtomatikong focus	✗	Mga sertipiko ng pagpapanatili	EPEAT Ginto, ENERGY STAR
Network			
Wi-Fi	✓		
Nangungunang pamantayan ng Wi-Fi *	Wi-Fi 5 (802.11ac)		

Network		Timbang at sukat	
Mga pamantayan ng Wi-Fi	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Lapad	377,4 milimetro
Uri ng antena	2x2	Lalim	252,3 milimetro
LAN ng ethernet	✓	Taas (harap)	2,45 sentimetro
Mga rate ng data ng Ethernet LAN	10,100,1000 Mbit/s	Taas (likod)	2,94 sentimetro
Bluetooth	✓	Timbang *	2,45 kilo
Bersyon ng bluetooth	5.0	Nilalaman ng packaging	
Mga port at interface		May kasamang AC adapter *	✓
Dami ng Type-A port na USB 3.2 Gen 1 (3.1 Gen 1) *	3	Manwal	✓
Dami ng mga Type-C port na USB 3.2 Gen 1 (3.1 Gen 1) *	2	May kasamang kurdon ng kuryente	✓
Mga port ng Ethernet LAN (RJ-45).	1	Iba pang mga feature	
Dami ng mga HDMI port *	1	3D	✗
		Maximum internal memory (64-bit)	64 GB



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