



## Lenovo ThinkPad W540 Intel® Core™ i7 i7-4700MQ Estación de trabajo móvil 39.6 cm (15.6") Full HD 8 GB DDR3L-SDRAM 500 GB Unidad de disco duro NVIDIA® Quadro® K1100M Windows 7 Professional Negro



Marca : Lenovo

Familia de productos:  
ThinkPad

Código del producto:  
20BGA03BLM

Nombre del producto : W540

Intel Core i7-4700MQ (2.4 GHz), 8GB DDR3L SDRAM, 500GB HDD, 15.6" FHD (1920x1080), NVIDIA Quadro K1100M 2GB, Gigabit Ethernet, WLAN 802.11 ac/a/b/g/n, Bluetooth 4.0, DVD±RW, 4-in-1 CR, Windows 7 Professional 64-bit/Windows 8.1 Pro  
Lenovo ThinkPad W540. Tipo de producto: Estación de trabajo móvil, Factor de forma: Concha. Familia de procesador: Intel® Core™ i7, Modelo del procesador: i7-4700MQ, Frecuencia del procesador: 2.4 GHz. Diagonal de la pantalla: 39.6 cm (15.6"), Tipo HD: Full HD, Resolución de la pantalla: 1920 x 1080 Píxeles. Memoria interna: 8 GB, Tipo de memoria interna: DDR3L-SDRAM. Capacidad total de almacenaje: 500 GB, Unidad de almacenamiento: Unidad de disco duro, Tipo de unidad óptica: DVD±RW. Sistema operativo instalado: Windows 7 Professional. Color del producto: Negro



Design		Keyboard	
Product type *	Mobile workstation	Pointing device	ThinkPad UltraNav
Product colour *	Black	Numeric keypad *	✓
Form factor *	Clamshell	Keyboard backlit	✓
Market positioning	High performance	Spill-resistant keyboard	✓
Display		Full-size keyboard	✓
Display diagonal *	39.6 cm (15.6")	Windows keys	✓
Display resolution *	1920 x 1080 pixels	Software	
Touchscreen *	✗	Operating system architecture	64-bit
HD type	Full HD	Recovery operating system	Windows 8.1 Pro
LED backlight	✓	Operating system installed *	Windows 7 Professional
Native aspect ratio	16:9	Processor special features	
Display brightness	220 cd/m²	Intel® Wireless Display (Intel® WiDi)	✓
Processor		Intel® My WiFi Technology (Intel® MWT)	✓
Processor manufacturer *	Intel	Intel Smart Connect Technology	✗
Processor family *	Intel® Core™ i7	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor generation	4th gen Intel® Core™ i7	Intel® Rapid Start Technology	✗
Processor model *	i7-4700MQ	Intel® Smart Response Technology	✗
Processor cores	4	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor threads	8	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor boost frequency	3.4 GHz	Intel® Turbo Boost Technology	2.0
Processor frequency *	2.4 GHz	Intel® Matrix Storage Technology (Intel® MST)	✗
Processor cache	6 MB	Intel® High Definition Audio (Intel® HD Audio)	✗
Processor cache type	Smart Cache	Intel® Active Management Technology (Intel® AMT)	✗
Processor socket	PGA946	Enhanced Intel SpeedStep Technology	✓
Processor lithography	22 nm	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor operating modes	64-bit		
Processor series	Intel Core i7-4700 Mobile series		
Processor codename	Haswell		
Bus type	DMI2		
FSB Parity	✗		
Stepping	C0		
Thermal Design Power (TDP)	47 W		
Tjunction	100 °C		

Processor		Processor special features	
Maximum number of PCI Express lanes	16	Intel Clear Video Technology	✗
PCI Express slots version	3.0	Intel® InTru™ 3D Technology	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® Insider™	✓
ECC supported by processor	✗	Intel® Quick Sync Video Technology	✓
Memory		Intel Flex Memory Access	✗
Internal memory *	8 GB	Intel® Smart Cache	✓
Internal memory type	DDR3L-SDRAM	Intel® AES New Instructions (Intel® AES-NI)	✓
Memory clock speed	1600 MHz	Intel Trusted Execution Technology	✗
Memory slots	4x SO-DIMM	Intel Enhanced Halt State	✓
Maximum internal memory *	32 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Storage		Intel Demand Based Switching	✗
Total storage capacity *	500 GB	Intel® Secure Key	✓
Storage media *	HDD	Intel TSX-NI	✗
Number of HDDs installed	1	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
HDD capacity	500 GB	Intel 64	✓
HDD interface	SATA	Execute Disable Bit	✓
HDD speed	7200 RPM	Idle States	✓
HDD size	2.5"	Thermal Monitoring Technologies	✓
Optical drive type *	DVD±RW	Processor package size	37.5 x 32 x 1.6 mm
Card reader integrated	✓	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Compatible memory cards	MMC, SD, SDHC, SDXC	Processor code	SR15H
Graphics		CPU configuration (max)	1
Discrete graphics card model *	NVIDIA® Quadro® K1100M	Embedded options available	✗
Discrete graphics card memory	2 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Discrete graphics memory type	GDDR5	Intel Identity Protection Technology version	1.00
On-board graphics card *	✓	Intel Secure Key Technology version	1.00
Discrete graphics card *	✓	Intel TSX-NI version	0.00
On-board graphics card family	Intel® HD Graphics	Intel Virtualization Technology (VT-x)	✓
On-board graphics card model *	Intel® HD Graphics 4600	Intel Dual Display Capable Technology	✗
On-board graphics card base frequency	400 MHz	Intel FDI Technology	✓
On-board graphics card dynamic frequency (max)	1150 MHz	Intel Rapid Storage Technology	✗
Maximum on-board graphics card memory	1.74 GB	Intel Fast Memory Access	✗
On-board graphics card DirectX version	11.1	Processor ARK ID	75117
On-board graphics card ID	0x416	Conflict-Free processor	✓
Number of discrete graphics cards supported	1	Battery	
Number of discrete graphics cards installed	1	Battery technology	Lithium-Ion (Li-Ion)
Audio		Number of battery cells	9
Audio system	Dolby Home Theater v4	Battery life (max)	6 h
Number of built-in speakers	2	Power	
Built-in microphone	✓	DC-in jack	✓
Camera		Security	
Front camera	✓	Cable lock slot	✓
Front camera resolution	1280 x 720 pixels	Cable lock slot type	Kensington
Network		Fingerprint reader	✓
Wi-Fi	✓	Weight & dimensions	
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Width	376 mm
Ethernet LAN	✓	Depth	249 mm
Ethernet LAN data rates	10,100,1000 Mbit/s	Height	28 mm
Bluetooth	✓	Weight *	2.47 kg
Bluetooth version	4.0		

Ports & interfaces		Packaging content	
USB 2.0 ports quantity *	2	AC adapter included *	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Manual	✓
Ethernet LAN (RJ-45) ports	1	Power cord included	✓
DVI port	✗	Other features	
VGA (D-Sub) ports quantity	1	Maximum internal memory (64-bit)	32 GB
Thunderbolt ports quantity	1	Intel segment tagging	Professional
S/PDIF out port	✗		
Microphone in	✗		
Combo headphone/mic port	✓		
Docking connector	✗		
ExpressCard slot	✓		
CardBus PCMCIA slot type	✗		
SmartCard slot	✗		

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