Lenovo.

Lenovo ThinkPad W520 Intel® Core™ i7 i7-2720QM Mobile workstation 39,6 cm (15.6") Full HD 4 GB DDR3-SDRAM 500 GB HDD NVIDIA® Quadro® 1000M Windows 7 Professional Black

Brand : Lenovo Product family: ThinkPad Product code: NY54CGE

Product name: W520

ThinkPad W520 - Intel Core i7-2720QM (2.20 GHz), 4GB DDR3 RAM, 500GB SATA HDD, 15.6" FHD (1920x1080), nVidia Quadro 1000M 2GB, Gigabit Ethernet, WLAN 802.11a/g/n, DVD-RW, Windows 7 Professional 64-bit

Lenovo ThinkPad W520. Product type: Mobile workstation, Form factor: Clamshell. Processor type: Intel® Core™ i7, Processor: i7-2720QM, Processor frequency: 2,2 GHz. Display diagonal: 39,6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 4 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 500 GB, Storage media: HDD, Optical drives: DVD-RW. Operating system software: Windows 7 Professional. Product colour: Black



Design		Ports & interfaces	
Product type *	Mobile workstation	TV-out	x
Product colour *	Black	Performance	
Form factor *	Clamshell	Chipset	Intel® QM67 Express
Display		Keyboard	
Display diagonal *	39,6 cm (15.6")	Pointing device	ThinkPad UltraNav
Display resolution *	1920 x 1080 pixels	Numeric keypad *	X
Touchscreen *	×	Spill-resistant keyboard	· •
HD type	Full HD	Windows keys	,
LED backlight	•	,	•
Native aspect ratio	16:9	Software	
Processor		Operating system architecture	64-bit
Processor manufacturer *	Intel	Operating system software *	Windows 7 Professional
Processor type *	Intel® Core™ i7	Processor special features	
Processor generation	2nd gen Intel® Core™ i7	Intel Wireless Display (WiDi)	/
Processor *	i7-2720QM	Technology	•
Processor number of cores	4	Intel My WiFi Technology	✓
Processor threads	8 3.3 GHz	Intel Anti-Theft Technology	✓
Processor boost frequency Processor frequency *	2,2 GHz	Intel® Smart Response Technology	×
Processor cache	6 MB	Intel Identity Protection Technology	✓
Processor cache type	Smart Cache	Intel Hyper-Threading Technology	✓
Processor socket	Socket 1224	Intel Turbo Boost Technology	2.0
Processor system bus	1600 MHz	Intel® Small Business Advantage	×
Processor lithography	32 nm	(Intel® SBA)	
Processor operating modes	64-bit	Enhanced Intel SpeedStep Technology	✓
Processor series	Intel Core i7-2700 Mobile Series	Intel Clear Video HD Technology	/
Processor codename	Sandy Bridge	Intel Clear Video Technology	×
Bus type	DMI	Intel® InTru™ 3D Technology	1
FSB Parity	×	Intel® Insider™	· •
Stepping	D2	Intel® Quick Sync Video Technology	
Thermal Design Power (TDP)	45 W		v
Tjunction Maximum number of PCI Express	100 C	Intel Flex Memory Access	•
lanes	16	Intel AES New Instructions	✓
PCI Express slots version	2.0	Intel Trusted Execution Technology	✓
PCI Express configurations	1x16, 2x8	Intel Enhanced Halt State	/
CPU multiplier (bus/core ratio)	22	Intel VT-x with Extended Page Tables (EPT)	✓
ECC supported by processor	×	Intel Demand Based Switching	×
		,	

Memory		Processor special features	
Internal memory *	4 GB	Intel Clear Video Technology for MID	×
Internal memory type	DDR3-SDRAM	Intel 64	✓
Memory speed	1333 MHz	Execute Disable Bit	✓
Memory slots	4x SO-DIMM	Idle States	1
Maximum memory *	32 GB	Thermal Monitoring Technologies	1
Storage		Thermal Monitoring Technologies	37.5 x 37.5 (rPGA988B); 31.0 x 24.0
Total storage capacity *	500 GB	Processor package size	(BGA1224)
Storage media *	HDD	Supported instruction sets	AVX
Number of HDDs installed	1	Processor code	SR00W
Hard drive capacity	500 GB	CPU configuration (max)	1
Hard drive interface	SATA	Embedded options available	×
Hard drive rotational speed	7200 RPM	Graphics & IMC lithography	32 nm
Optical drives *	DVD-RW	Intel Virtualization Technology for	/
Card reader integrated	✓	Directed I/O (VT-d)	
Compatible memory cards	MMC	Intel Identity Protection Technology version	1,00
Graphics		Intel Virtualization Technology (VT-	
Discrete graphics card model *	NVIDIA® Quadro® 1000M	x)	1
Discrete graphics card memory	2 GB	Intel Dual Display Capable	1
Discrete graphics memory type	GDDR3	Technology	•
On-board graphics card *	✓	Intel FDI Technology	1
Discrete graphics card *	/	Intel Rapid Storage Technology	×
On-board graphics card family	Intel® HD Graphics	Intel Fast Memory Access	✓
On-board graphics card model *	Intel® HD Graphics 3000	Processor ARK ID	50067
On-board graphics card base	·	Conflict-Free processor	×
frequency	650 MHz	Integrated 4G WiMAX	✓
On-board graphics card dynamic	1300 MHz	Battery	
frequency (max)		•	1911 1 (111)
On-board graphics card ID	0x116	Battery technology	Lithium-lon (Li-lon)
Number of discrete graphics cards	1	Number of battery cells	9 8,9 h
Number of discrete graphics cards installed	1	Battery life (max)	0,9 11
Maximum resolution	1920 x 1080 pixels	Power	
Audio	·	AC adapter power	170 W
		DC-in jack	✓
Number of built-in speakers	2	Security	
Speaker power	1 W	Cable lock slot	1
Built-in microphone	•		
Camera		Fingerprint reader	V
Front camera	✓	Password protection type	HDD, Power on, Supervisor
Network		Sustainability	
		Sustainability certificates	EPEAT Gold, ENERGY STAR
Wi-Fi	0' 1'' 5''	Weight & dimensions	
Network interface	Gigabit Ethernet	Width	372,8 mm
Wi-Fi standards	802.11a, 802.11g, Wi-Fi 4 (802.11n)	Depth	245,1 mm
Ethernet LAN connection	✓	Height (front)	3,16 cm
Bluetooth	×	Height (rear)	3,58 cm
Cabling technology	10/100/1000Base-T(X)	Width (imperial)	37,3 cm (14.7")
Ports & interfaces		Depth (imperial)	24,5 cm (9.65")
USB 2.0 ports quantity *	1	Height (front) (imperial)	3,2 cm (1.26")
USB 3.2 Gen 1 (3.1 Gen 1) Type-A	2	Height (rear) (imperial)	3,58 cm (1.41")
ports quantity *		Weight *	3,11 kg
eSATA/USB 2.0 ports quantity	1	Packaging content	
Ethernet LAN (RJ-45) ports	1	AC adapter included *	✓
DisplayPorts quantity	1	Cables included	AC
DVI port	×		AC
VGA (D-Sub) ports quantity	1	Other features	
Headphone outputs	1	Wireless technologies	Wi-Fi
S/PDIF out port	×	Infrared data port	×
Microphone in	✓	Graphics card family	Intel, NVIDIA

Ports & interfaces		Other features	
Combo headphone/mic port	✓	3D compatibility	×
Docking connector	×	Туре	PC
ExpressCard slot	✓	Display	TFT
CardBus PCMCIA slot type	×	Compliance industry standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
		Intel segment tagging	Professional

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