



Lenovo ThinkPad W510 Intel® Core™ i7 i7-720QM 39,6 cm (15.6") HD+ 2 GB DDR3-SDRAM 320 GB NVIDIA® Quadro® FX 880M Windows 7 Professional Black

Brand : Lenovo

Product family: ThinkPad

Product code: NTK24MZ

Product name : W510

ThinkPad W510, Intel Core i7-720QM (1.60 GHz, 6M Cache), 2GB DDR3-1066MHz, 320GB SATA 7200rpm HDD, 15.6" TFT HD+ (1600 x 900px), NVIDIA Quadro FX 880M 1GB, Gigabit Ethernet, WLAN, 802.11 a/b/g/n, Bluetooth 2.1, TPM, DVD SM, WebCam 2.0MP, Modem, Windows 7 Professional
Lenovo ThinkPad W510. Processor family: Intel® Core™ i7, Processor model: i7-720QM, Processor frequency: 1,6 GHz. Display diagonal: 39,6 cm (15.6"), HD type: HD+, Display resolution: 1600 x 900 pixels. Internal memory: 2 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 320 GB, Optical drive type: DVD Super Multi. Discrete graphics card model: NVIDIA® Quadro® FX 880M. Operating system installed: Windows 7 Professional. Product colour: Black. Weight: 2,67 kg



Design		Keyboard	
Product colour *	Black	Pointing device	ThinkPad UltraNav
Display		Software	
Display diagonal *	39,6 cm (15.6")	Operating system architecture	64-bit
Display resolution *	1600 x 900 pixels	Operating system installed *	Windows 7 Professional
HD type	HD+	Processor special features	
LED backlight	✓	Intel® Wireless Display (Intel® WiDi)	✗
Native aspect ratio	16:9	Intel® My WiFi Technology (Intel® MWT)	✗
Processor		Intel® Anti-Theft Technology (Intel® AT)	✗
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor family *	Intel® Core™ i7	Intel® Turbo Boost Technology	1.0
Processor generation	Intel® Core™ i7	Enhanced Intel SpeedStep Technology	✓
Processor model *	i7-720QM	Intel® Clear Video HD Technology (Intel® CVT HD)	✗
Processor cores	4	Intel Clear Video Technology	✗
Processor threads	8	Intel® InTru™ 3D Technology	✗
Processor boost frequency	2,8 GHz	Intel® Insider™	✗
Processor frequency *	1,6 GHz	Intel® Quick Sync Video Technology	✗
System bus rate	2,5 GT/s	Intel Flex Memory Access	✗
Processor cache	6 MB	Intel® Smart Cache	✓
Processor cache type	Smart Cache	Intel® AES New Instructions (Intel® AES-NI)	✗
Processor socket	Socket 988	Intel Trusted Execution Technology	✓
Processor lithography	45 nm	Intel Enhanced Halt State	✓
Processor operating modes	64-bit		
Processor series	Intel Core i7-700 Mobile Series		
Processor codename	Clarksfield		
Bus type	DMI		
FSB Parity	✗		
Stepping	B1		
Thermal Design Power (TDP)	45 W		

Processor		Processor special features	
Tjunction	100 °C	Intel VT-x with Extended Page Tables (EPT)	✓
Maximum number of PCI Express lanes	16	Intel Demand Based Switching	✗
PCI Express slots version	2.0	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
PCI Express configurations	1x16, 2x8	Intel 64	✓
Number of Processing Die Transistors	774 M	Execute Disable Bit	✓
Processing Die size	296 mm²	Idle States	✓
CPU multiplier (bus/core ratio)	12	Thermal Monitoring Technologies	✓
ECC supported by processor	✗	Processor package size	37.5 x 37.5 mm
Memory		Supported instruction sets	SSE4.2
Internal memory *	2 GB	Processor code	SLBLY
Internal memory type	DDR3-SDRAM	Physical Address Extension (PAE)	✓
Memory clock speed	1066 MHz	Physical Address Extension (PAE)	36 bit
Memory layout (slots x size)	1 x 2 GB	CPU configuration (max)	1
Memory slots	2x SO-DIMM	Embedded options available	✗
Maximum internal memory *	16 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Storage		Intel Virtualization Technology (VT-x)	✓
Total storage capacity *	320 GB	Intel Dual Display Capable Technology	✗
Number of hard drives installed	1	Intel FDI Technology	✗
Hard drive interface	SATA	Intel Rapid Storage Technology	✗
Hard drive speed	7200 RPM	Intel Fast Memory Access	✗
Optical drive type *	DVD Super Multi	Processor ARK ID	43122
Card reader integrated	✓	Conflict-Free processor	✗
Compatible memory cards	Memory Stick (MS), MMC, MS PRO, SD, SDHC	Battery	
Graphics		Number of battery cells	6
Discrete graphics card model *	NVIDIA® Quadro® FX 880M	Power	
Discrete graphics card *	✓	DC-in jack	✓
Audio		Security	
Audio system	HD	Cable lock slot	✓
Network		Cable lock slot type	IBM
Wi-Fi	✓	Fingerprint reader	✓
Networking features	Gigabit Ethernet, WLAN	Trusted Platform Module (TPM)	✓
Ethernet LAN	✓	Weight & dimensions	
Bluetooth	✓	Width	372,9 mm
Bluetooth version	2.1+EDR	Depth	245,1 mm
Cabling technology	10/100/1000Base-T(X)	Height	35,8 mm
Ports & interfaces		Weight *	2,67 kg
USB 2.0 ports quantity *	4	Packaging content	
eSATA ports quantity	1	AC adapter included *	✓
Ethernet LAN (RJ-45) ports	1	Other features	
DisplayPorts quantity	1	Infrared data port	✗
DVI port	✗	Graphics card family	NVIDIA
VGA (D-Sub) ports quantity	1	Type	PC
Firewire (IEEE 1394) ports	1	Dimensions (WxDxH)	372,85 x 245,1 x 35,8 mm
Headphone outputs	1	Internal modem	✓
S/PDIF out port	✗	Modem speed	56 Kbit/s
Microphone in	✓	Modem type	ITU V.90
Line-in	✓	Intel segment tagging	Professional
Docking connector	✗		
ExpressCard slot	✓		
CardBus PCMCIA slot type	✗		
SmartCard slot	✗		
Modem (RJ-11) ports	1		
TV-out	✗		

Performance

Motherboard chipsetIntel® QM57 Express

Catalog Object Cloud



Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.