Lenovo

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		
Processor generation	Intel® Core™ i7	Intel® Turbo Boost Technology	1.0
Processor model *	i7-720QM	Enhanced Intel SpeedStep Technology	✔
Processor cores	4		
Processor threads	8	Intel® Clear Video HD Technology (Intel® CVT HD)	✗
Processor boost frequency	2,8 GHz		
Processor frequency *	1,6 GHz	Intel Clear Video Technology	✗
System bus rate	2,5 GT/s	Intel® InTru™ 3D Technology	✗
Processor cache	6 MB	Intel® Insider™	✗
Processor cache type	Smart Cache	Intel® Quick Sync Video Technology	✗
Processor socket	Socket 988	Intel Flex Memory Access	✗
Processor lithography	45 nm		
Processor operating modes	64-bit	Intel® Smart Cache	✔
Processor series	Intel Core i7-700 Mobile Series	Intel® AES New Instructions (Intel® AES-NI)	✗
Processor codename	Clarksfield		
Bus type	DMI	Intel Trusted Execution Technology	✔
FSB Parity	✗	Intel Enhanced Halt State	✔
Stepping	B1		
Thermal Design Power (TDP)	45 W		

Processor

Tjunction	100 °C
Maximum number of PCI Express lanes	16
PCI Express slots version	2.0
PCI Express configurations	1x16, 2x8
Number of Processing Die Transistors	774 M
Processing Die size	296 mm²
CPU multiplier (bus/core ratio)	12
ECC supported by processor	✗

Memory

Internal memory *	2 GB
Internal memory type	DDR3-SDRAM
Memory clock speed	1066 MHz
Memory layout (slots x size)	1 x 2 GB
Memory slots	2x SO-DIMM
Maximum internal memory *	16 GB

Storage

Total storage capacity *	320 GB
Number of hard drives installed	1
Hard drive interface	SATA
Hard drive speed	7200 RPM
Optical drive type *	DVD Super Multi
Card reader integrated	✔
Compatible memory cards	Memory Stick (MS), MMC, MS PRO, SD, SDHC

Graphics

Discrete graphics card model *	NVIDIA® Quadro® FX 880M
Discrete graphics card *	✔

Audio

Audio system	HD

Network

Wi-Fi	✔
Networking features	Gigabit Ethernet, WLAN
Ethernet LAN	✔
Bluetooth	✔
Bluetooth version	2.1+EDR
Cabling technology	10/100/1000Base-T(X)

Ports & interfaces

USB 2.0 ports quantity *	4
eSATA ports quantity	1
Ethernet LAN (RJ-45) ports	1
DisplayPorts quantity	1
DVI port	✗
VGA (D-Sub) ports quantity	1
Firewire (IEEE 1394) ports	1
Headphone outputs	1
S/PDIF out port	✗
Microphone in	✔
Line-in	✔
Docking connector	✗
ExpressCard slot	✔
CardBus PCMCIA slot type	✗
SmartCard slot	✗
Modem (RJ-11) ports	1
TV-out	✗

Processor special features

Intel VT-x with Extended Page Tables (EPT)	✔
Intel Demand Based Switching	✗
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Intel 64	✔
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Processor package size	37.5 x 37.5 mm
Supported instruction sets	SSE4.2
Processor code	SLBLY
Physical Address Extension (PAE)	✔
Physical Address Extension (PAE)	36 bit
CPU configuration (max)	1
Embedded options available	✗
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Virtualization Technology (VT-x)	✔
Intel Dual Display Capable Technology	✗
Intel FDI Technology	✗
Intel Rapid Storage Technology	✗
Intel Fast Memory Access	✗
Processor ARK ID	43122
Conflict-Free processor	✗

Battery

Number of battery cells	6

Power

DC-in jack	✔

Security

Cable lock slot	✔
Cable lock slot type	IBM
Fingerprint reader	✔
Trusted Platform Module (TPM)	✔

Weight & dimensions

Width	372,9 mm
Depth	245,1 mm
Height	35,8 mm
Weight *	2,67 kg

Packaging content

AC adapter included *	✔

Other features

Infrared data port	✗
Graphics card family	NVIDIA
Type	PC
Dimensions (WxDxH)	372,85 x 245,1 x 35,8 mm
Internal modem	✔
Modem speed	56 Kbit/s
Modem type	ITU V.90
Intel segment tagging	Professional

Performance

Motherboard chipset	Intel® QM57 Express

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