



Lenovo ThinkPad T510 Intel® Core™ i5 i5-520M 39,6 cm (15.6") 2 GB DDR3-SDRAM 160 GB HDD Windows 7 Professional Black

Brand : Lenovo

Product family: ThinkPad

Product code: NTH4XU1

Product name : T510



Intel Core i5-520M (2.40 GHz), 2GB DDR3 RAM, 160GB SATA HDD, 15.6" TFT (1366x768), Intel HD Graphics, Gigabit Ethernet, WLAN 802.11 b/g/n, Bluetooth, DVD-RW, Windows 7 Professional 32-bit
Lenovo ThinkPad T510. Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-520M, Processor frequency: 2,4 GHz. Display diagonal: 39,6 cm (15.6"), Display resolution: 1366 x 768 pixels. Internal memory: 2 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 160 GB, Storage media: HDD, Optical drive type: DVD-RW. On-board graphics card model: Intel® HD Graphics. Operating system installed: Windows 7 Professional. Product colour: Black. Weight: 2,67 kg

Design		Ports & interfaces	
Product colour *	Black	TV-out	✗
Form factor *	Clamshell	Performance	
Display		Motherboard chipset	Intel® QM57 Express
Display diagonal *	39,6 cm (15.6")	Keyboard	
Display resolution *	1366 x 768 pixels	Pointing device	ThinkPad UltraNav
LED backlight	✓	Numeric keypad *	✗
Native aspect ratio	16:9	Windows keys	✓
Display brightness	220 cd/m²	Software	
Processor		Operating system architecture	32-bit
Processor manufacturer *	Intel	Operating system installed *	Windows 7 Professional
Processor family *	Intel® Core™ i5	Processor special features	
Processor generation	Intel® Core™ i5	Intel® Wireless Display (Intel® WiDi)	✗
Processor model *	i5-520M	Intel® My WiFi Technology (Intel® MWT)	✗
Processor cores	2	Intel® Anti-Theft Technology (Intel® AT)	✗
Processor threads	4	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor boost frequency	2,93 GHz	Intel® Turbo Boost Technology	1.0
Processor frequency *	2,4 GHz	Enhanced Intel SpeedStep Technology	✓
System bus rate	2,5 GT/s	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cache	3 MB	Intel Clear Video Technology	✓
Processor cache type	Smart Cache	Intel® InTru™ 3D Technology	✗
Processor socket	BGA 956	Intel® Insider™	✗
Processor lithography	32 nm	Intel® Quick Sync Video Technology	✗
Processor operating modes	64-bit	Intel Flex Memory Access	✓
Processor series	Intel Core i5-500 Mobile Series	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor codename	Arrandale	Intel Trusted Execution Technology	✓
Bus type	DMI	Intel Enhanced Halt State	✓
FSB Parity	✗	Intel VT-x with Extended Page Tables (EPT)	✓
Stepping	C2	Intel Demand Based Switching	✗
Thermal Design Power (TDP)	35 W		
Tjunction	105 °C		
Maximum number of PCI Express lanes	16		
PCI Express slots version	2.0		
PCI Express configurations	1x16		
Number of Processing Die Transistors	382 M		
Processing Die size	81 mm²		

Processor		Processor special features	
CPU multiplier (bus/core ratio)	18	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
ECC supported by processor	✗		
Memory		Intel 64	✓
Internal memory *	2 GB	Execute Disable Bit	✓
Internal memory type	DDR3-SDRAM	Idle States	✓
Memory clock speed	1066 MHz	Thermal Monitoring Technologies	✓
Memory layout (slots x size)	1 x 2 GB	Processor package size	rPGA 37.5x 37.5, BGA 34x28
Memory slots	2x SO-DIMM	Supported instruction sets	SSE4.1/4.2
Memory slots (available)	1	Physical Address Extension (PAE)	36 bit
Maximum internal memory *	8 GB	CPU configuration (max)	1
Storage		Embedded options available	✓
Total storage capacity *	160 GB	Graphics & IMC lithography	45 nm
Storage media *	HDD	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Number of HDDs installed	1	Intel Virtualization Technology (VT-x)	✓
HDD capacity	160 GB	Intel Dual Display Capable Technology	✓
HDD interface	SATA	Intel FDI Technology	✓
HDD speed	7200 RPM	Intel Rapid Storage Technology	✗
Optical drive type *	DVD-RW	Intel Fast Memory Access	✓
Card reader integrated	✓	Processor ARK ID	47341
Compatible memory cards	Memory Stick (MS), MMC, MS PRO, SD, SDHC	Conflict-Free processor	✗
Graphics		Battery	
On-board graphics card *	✓	Battery technology	Lithium-Ion (Li-Ion)
On-board graphics card family	Intel® HD Graphics	Number of battery cells	6
On-board graphics card model *	Intel® HD Graphics	Battery life (max)	6,2 h
On-board graphics card base frequency	500 MHz	Power	
On-board graphics card dynamic frequency (max)	766 MHz	AC adapter power	65 W
Maximum resolution	1366 x 768 pixels	DC-in jack	✓
Audio		Security	
Audio system	HD	Cable lock slot	✓
Number of built-in speakers	2	Cable lock slot type	Kensington
Speaker power	1 W	Password protection type	HDD, Power on, Supervisor
Built-in microphone	✓	Sustainability	
Network		Sustainability certificates	EPEAT Gold, ENERGY STAR
Wi-Fi	✓	Weight & dimensions	
Networking features	Gigabit Ethernet	Width	372,8 mm
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Depth	245,1 mm
Ethernet LAN	✓	Height (front)	3,2 cm
Ethernet LAN data rates	10,100,1000 Mbit/s	Height (rear)	3,58 cm
Bluetooth	✓	Weight *	2,67 kg
Bluetooth version	2.1+EDR	Packaging content	
WWAN	Installed	AC adapter included *	✓
Ports & interfaces		Other features	
USB 2.0 ports quantity *	3	Wireless technology	Wi-Fi
eSATA/USB 2.0 ports quantity	1	Infrared data port	✗
Ethernet LAN (RJ-45) ports	1	Graphics card family	Intel
DisplayPorts quantity	1	Type	PC
DVI port	✗	Display	TFT
VGA (D-Sub) ports quantity	1	Compliance industry standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
Firewire (IEEE 1394) ports	1	Intel segment tagging	Home office, Small Business
Headphone outputs	1		
S/PDIF out port	✗		
Microphone in	✓		
ExpressCard slot	✓		
CardBus PCMCIA slot type	✗		

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