



## Lenovo ThinkPad T520 Intel® Core™ i5 i5-2520M Laptop 39.6 cm (15.6") 4 GB DDR3-SDRAM 500 GB Intel® HD Graphics 3000 Windows 7 Professional Black

**Brand :** Lenovo

**Product family:** ThinkPad

**Product code:** 42404AU

**Product name :** T520

15.6" HD, Intel Core i5-2520M (2.50GHz), 4GB RAM, 500GB HDD, Intel HD Graphics 3000, VGA, DisplayPort, Wi-Fi, LAN, BT3.0, Windows 7 Professional (64)

Lenovo ThinkPad T520. Product type: Laptop. Processor family: Intel® Core™ i5, Processor model: i5-2520M, Processor frequency: 2.5 GHz. Display diagonal: 39.6 cm (15.6"), Display resolution: 1366 x 768 pixels. Internal memory: 4 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 500 GB, Optical drive type: DVD Super Multi. On-board graphics card model: Intel® HD Graphics 3000, Discrete graphics card model: Intel® HD Graphics 3000. Operating system installed: Windows 7 Professional. Product color: Black. Weight: 2.51 kg



Design		Software	
Product type *	Laptop	Operating system architecture	64-bit
Product color *	Black	Operating system installed *	Windows 7 Professional
Display		Processor special features	
Display diagonal *	39.6 cm (15.6")	Intel® Wireless Display (Intel® WiDi)	✓
Display resolution *	1366 x 768 pixels	Intel® My WiFi Technology (Intel® MWT)	✓
LED backlight	✓	Intel® Anti-Theft Technology (Intel® AT)	✓
Native aspect ratio	16:9	Intel® Identity Protection Technology (Intel® IPT)	✓
Display surface	Matt	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Contrast ratio (typical)	500:1	Intel® Turbo Boost Technology	2.0
Processor		Enhanced Intel SpeedStep Technology	✓
Processor manufacturer *	Intel	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor family *	Intel® Core™ i5	Intel Clear Video Technology	✗
Processor generation	2nd gen Intel® Core™ i5	Intel® InTru™ 3D Technology	✓
Processor model *	i5-2520M	Intel® Insider™	✗
Processor cores	2	Intel® Quick Sync Video Technology	✓
Processor threads	4	Intel Flex Memory Access	✓
Processor boost frequency	3.2 GHz	Intel® Smart Cache	✓
Processor frequency *	2.5 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
System bus rate	5 GT/s	Intel Trusted Execution Technology	✓
Processor cache	3 MB	Intel Enhanced Halt State	✓
Processor cache type	Smart Cache	Intel VT-x with Extended Page Tables (EPT)	✓
Processor socket	Socket 988	Intel Demand Based Switching	✗
Processor lithography	32 nm	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Processor operating modes	64-bit	Intel 64	✓
Processor series	Intel Core i5-2500 Mobile Series		
Processor codename	Sandy Bridge		
Bus type	DMI		
FSB Parity	✗		
Stepping	J1		
Thermal Design Power (TDP)	35 W		
Tjunction	100 °C		
Maximum number of PCI Express lanes	16		

Processor		Processor special features	
PCI Express slots version	2.0	Execute Disable Bit	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Idle States	✓
CPU multiplier (bus/core ratio)	25	Thermal Monitoring Technologies	✓
ECC supported by processor	✗	Processor package size	37.5 x 37.5 (rPGA988B); 31 x 24 (BGA1023)
Memory		Supported instruction sets	AVX
Internal memory *	4 GB	Processor code	SR048
Internal memory type	DDR3-SDRAM	CPU configuration (max)	1
Memory clock speed	1333 MHz	Embedded options available	✗
Memory slots	2x SO-DIMM	Graphics & IMC lithography	32 nm
Memory slots (available)	1	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Maximum internal memory *	8 GB	Intel Identity Protection Technology version	1.00
Storage		Intel Virtualization Technology (VT-x)	✓
Total storage capacity *	500 GB	Intel Dual Display Capable Technology	✓
HDD capacity	500 GB	Intel FDI Technology	✓
HDD interface	SATA II	Intel Rapid Storage Technology	✗
HDD speed	7200 RPM	Intel Fast Memory Access	✓
Optical drive type *	DVD Super Multi	Processor ARK ID	52229
Card reader integrated	✓	Conflict-Free processor	✗
Compatible memory cards	MMC, SD, SDHC, SDXC	Integrated 4G WiMAX	✓
Graphics		Battery	
Discrete graphics card model *	Intel® HD Graphics 3000	Battery life (max)	7.7 h
On-board graphics card *	✓	Power	
Discrete graphics card *	✓	AC adapter power	65 W
On-board graphics card family	Intel® HD Graphics	DC-in jack	✓
On-board graphics card model *	Intel® HD Graphics 3000	Security	
On-board graphics card base frequency	650 MHz	Cable lock slot	✗
On-board graphics card dynamic frequency (max)	1300 MHz	Fingerprint reader	✓
On-board graphics card ID	0x116	Password protection type	HDD, Supervisor
Maximum resolution	2560 x 1600 pixels	Certificates	
Audio		Compliance certificates	RoHS
Audio system	HD	Sustainability	
Number of built-in speakers	2	Sustainability certificates	ENERGY STAR
Speaker power	2 W	Weight & dimensions	
Network		Width	372.8 mm
Wi-Fi	✓	Depth	245.1 mm
Networking features	Gigabit Ethernet	Height (front)	3.18 cm
Ethernet LAN	✓	Height (rear)	3.56 cm
Bluetooth	✓	Width (imperial)	37.3 cm (14.7")
Bluetooth version	3.0+HS	Depth (imperial)	24.5 cm (9.65")
Cabling technology	10/100/1000Base-T(X)	Height (front) (imperial)	3.18 cm (1.25")
Ports & interfaces		Height (rear) (imperial)	3.56 cm (1.4")
USB 2.0 ports quantity *	4	Weight *	2.51 kg
Ethernet LAN (RJ-45) ports	1	Packaging content	
DisplayPorts quantity	1	AC adapter included *	✓
DVI port	✗	Other features	
VGA (D-Sub) ports quantity	1	Infrared data port	✗
Headphone outputs	1	Graphics card family	Intel
S/PDIF out port	✗	Display	LCD
Microphone in	✓	Power supply type	AC/DC
Docking connector	✗	Internal modem	✓
ExpressCard slot	✓		
CardBus PCMCIA slot type	✗		
SmartCard slot	✗		
Modem (RJ-11) ports	1		

Ports & interfaces		Other features	
TV-out	×	TV tuner integrated	×
Performance		Intel segment tagging	Home office, Small Business
Motherboard chipset	Intel® QM67 Express		
Keyboard			
Pointing device	Touchpad		
Keyboard number of keys	89		

## Catalog Object Cloud



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