



Lenovo ThinkPad T410 Intel® Core™ i5 i5-520M Laptop 35.8 cm (14.1") 2 GB DDR3-SDRAM 320 GB HDD Windows 7 Professional Black

Brand : Lenovo

Product family: ThinkPad

Product code: 2537RZ2

Product name : T410

Intel Core i5-520M(2.4GHz), 2GB RAM, 320GB HDD, Windows 7 Professional 32

Lenovo ThinkPad T410. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor: i5-520M, Processor frequency: 2.4 GHz. Display diagonal: 35.8 cm (14.1"), Display resolution: 1280 x 800 pixels. Internal memory: 2 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 320 GB, Storage media: HDD, Optical drive: DVD-RW. On-board graphics card model: Intel® HD Graphics. Operating system installed: Windows 7 Professional. Product colour: Black



Design		Keyboard	
Product type *	Laptop	Pointing device	ThinkPad UltraNav
Product colour *	Black	Numeric keypad *	✗
Form factor *	Clamshell	Windows keys	✓
Housing material	Plastic	Keyboard	QWERTY
Display		Software	
Display diagonal *	35.8 cm (14.1")	Operating system architecture	32-bit
Display resolution *	1280 x 800 pixels	Drivers included	✓
Touchscreen *	✗	Operating system installed *	Windows 7 Professional
HD type	Not supported	Processor special features	
LED backlight	✓	Intel Wireless Display (WiDi) Technology	✗
Native aspect ratio	16:10	Intel My WiFi Technology	✗
Display brightness	200 cd/m²	Intel Anti-Theft Technology	✗
Dual-screen	✗	Intel Hyper-Threading Technology	✓
Processor		Intel Turbo Boost Technology	1.0
Processor manufacturer *	Intel	Enhanced Intel SpeedStep Technology	✓
Processor family *	Intel® Core™ i5	Intel Clear Video HD Technology	✓
Processor generation	Intel® Core™ i5	Intel Clear Video Technology	✓
Processor *	i5-520M	Intel® InTru™ 3D Technology	✗
Processor number of cores	2	Intel® Insider™	✗
Processor threads	4	Intel® Quick Sync Video Technology	✗
Processor boost frequency	2.93 GHz	Intel Flex Memory Access	✓
Processor frequency *	2.4 GHz	Intel AES New Instructions	✓
System bus data transfer rate	2.5 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	BGA 956	Intel Demand Based Switching	✗
Processor lithography	32 nm	Intel Clear Video Technology for MID	✓
Processor operating modes	64-bit		
Processor series	Intel Core i5-500 Mobile Series		
Processor codename	Arrandale		
Bus type	DMI		

Processor		Processor special features	
FSB Parity	✗	Intel 64	✓
Stepping	C2	Execute Disable Bit	✓
Thermal Design Power (TDP)	35 W	Idle States	✓
Tjunction	105 °C	Thermal Monitoring Technologies	✓
Maximum number of PCI Express lanes	16	Processor package size	rPGA 37.5x 37.5, BGA 34x28
PCI Express slots version	2.0	Supported instruction sets	SSE4.1/4.2
PCI Express configurations	1x16	Physical Address Extension (PAE)	36 bit
Number of Processing Die Transistors	382 M	CPU configuration (max)	1
Processing die size	81 mm ²	Embedded options available	✓
CPU multiplier (bus/core ratio)	18	Graphics & IMC lithography	45 nm
ECC supported by processor	✗	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory		Intel Virtualization Technology (VT-x)	✓
Internal memory *	2 GB	Intel Dual Display Capable Technology	✓
Internal memory type	DDR3-SDRAM	Intel FDI Technology	✓
Memory clock speed	1066 MHz	Intel Rapid Storage Technology	✗
Memory slots	2x SO-DIMM	Intel Fast Memory Access	✓
Memory, maximum *	8 GB	Processor ARK ID	47341
Storage		Conflict-Free processor	✗
Total storage capacity *	320 GB	Battery	
Storage media *	HDD	Battery technology	Lithium-Ion (Li-Ion)
Number of HDDs installed	1	Battery life (max)	5 h
Hard drive capacity	320 GB	Power	
Hard drive interface	SATA	AC adapter frequency	50 - 60 Hz
Hard drive rotational speed	7200 RPM	DC-in jack	✓
Optical drive *	DVD-RW	Security	
Card reader integrated	✓	Cable lock slot	✓
Compatible memory cards	Memory Stick (MS), MMC, MS PRO, SD, SDHC	Cable lock slot type	IBM
Graphics		Fingerprint reader	✗
On-board graphics card *	✓	Password protection type	BIOS
On-board graphics card family	Intel® HD Graphics	Operational conditions	
On-board graphics card model *	Intel® HD Graphics	Operating temperature (T-T)	5 - 35 °C
On-board graphics card base frequency	500 MHz	Storage temperature (T-T)	5 - 43 °C
On-board graphics card dynamic frequency (max)	766 MHz	Operating relative humidity (H-H)	8 - 80%
Audio		Storage humidity	5 - 95%
Audio system	HDA	Operating altitude	0 - 2438 m
Number of built-in speakers	2	Sustainability	
Speaker power	2 W	Sustainability certificates	ENERGY STAR
Built-in subwoofer	✗	Weight & dimensions	
Built-in microphone	✓	Width	333.5 mm
Network		Depth	239 mm
Wi-Fi	✓	Height (front)	2.76 cm
Network interface	Gigabit Ethernet	Height (rear)	3.19 cm
Wi-Fi standards	802.11a, 802.11g, Wi-Fi 4 (802.11n)	Weight *	2.23 kg
Ethernet LAN connection	✓	Packaging content	
Ethernet LAN data rates	10,100,1000 Mbit/s	Mouse included	✗
Bluetooth	✓	AC adapter included *	✓
Data network	Not supported	Bag included	✗
Cabling technology	10/100/1000Base-T(X)	Remote control	✗
4G WiMAX	✗	Other features	
Ports & interfaces		LightScribe	✗
USB 2.0 ports quantity *	4	Infrared data port	✗
eSATA ports quantity	1	Graphics card family	Intel

Ports & interfaces		Other features	
Ethernet LAN (RJ-45) ports	1	Type	PC
DisplayPorts quantity	1	Swivel webcam	✗
DVI port	✗	Display	LCD
VGA (D-Sub) ports quantity	1	Power requirements	230 V
Firewire (IEEE 1394) ports	1	TV-in port	✗
Headphone outputs	1	HDD user password	✓
S/PDIF out port	✗	Internal modem	✓
Microphone in	✓	TV tuner integrated	✗
Line-in	✗	Modem speed	56 Kbit/s
Docking connector	✗	Modem speed	V.92
ExpressCard slot	✓	Intel segment tagging	Home office, Small Business
CardBus PCMCIA slot type	✗		
SmartCard slot	✗		
Modem (RJ-11) ports	1		
TV-out	✗		
Performance			
Chipset	Intel® QM57 Express		

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