



Lenovo ThinkPad T420 Intel® Core™ i5 i5-2410M 35.6 cm (14") 4 GB DDR3-SDRAM 320 GB HDD Windows 7 Professional Black

Brand : Lenovo

Product family: ThinkPad

Product code: NW19YRT

Product name : T420



Intel Core i5-2410M(2.3GHz), 4GB DDR3, 320GB, 14.0" HD+ (1366 x 768), Intel HD Graphics 3000, Windows 7 Professional 64-bit
Lenovo ThinkPad T420. Processor family: Intel® Core™ i5, Processor model: i5-2410M, Processor frequency: 2.3 GHz. Display diagonal: 35.6 cm (14"), Display resolution: 1366 x 768 pixels. Internal memory: 4 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 320 GB, Storage media: HDD, Optical drive type: DVD±RW. On-board graphics card model: Intel® HD Graphics 3000. Operating system installed: Windows 7 Professional. Product color: Black. Weight: 2.24 kg

Design		Software	
Product color *	Black	Operating system architecture	64-bit
Housing material	Plastic	Drivers included	✓
Display		Operating system installed *	Windows 7 Professional
Display diagonal *	35.6 cm (14")	Processor special features	
Display resolution *	1366 x 768 pixels	Intel® Wireless Display (Intel® WiDi)	✓
LED backlight	✓	Intel® My WiFi Technology (Intel® MWT)	✓
Native aspect ratio	16:9	Intel® Anti-Theft Technology (Intel® AT)	✓
Display surface	Matt	Intel® Identity Protection Technology (Intel® IPT)	✓
Display brightness	230 cd/m²	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Dual-screen	✗	Intel® Turbo Boost Technology	2.0
Contrast ratio (typical)	300:1	Enhanced Intel SpeedStep Technology	✓
Processor		Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor manufacturer *	Intel	Intel Clear Video Technology	✗
Processor family *	Intel® Core™ i5	Intel® InTru™ 3D Technology	✓
Processor generation	2nd gen Intel® Core™ i5	Intel® Insider™	✗
Processor model *	i5-2410M	Intel® Quick Sync Video Technology	✓
Processor cores	2	Intel Flex Memory Access	✓
Processor threads	4	Intel® Smart Cache	✓
Processor boost frequency	2.9 GHz	Intel® AES New Instructions (Intel® AES-NI)	✗
Processor frequency *	2.3 GHz	Intel Trusted Execution Technology	✗
System bus rate	5 GT/s	Intel Enhanced Halt State	✓
Processor cache	3 MB	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cache type	Smart Cache	Intel Demand Based Switching	✗
Processor socket	BGA 1023	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Processor lithography	32 nm	Intel 64	✓
Processor operating modes	64-bit		
Processor series	Intel Core i5-2400 Mobile Series		
Processor codename	Sandy Bridge		
Bus type	DMI		
FSB Parity	✗		
Stepping	J1		
Thermal Design Power (TDP)	35 W		
Tjunction	100 °C		

Processor		Processor special features	
Maximum number of PCI Express lanes	16	Execute Disable Bit	✓
PCI Express slots version	2.0	Idle States	✓
PCI Express configurations	1x8, 1x16, 2x4, 2x8	Thermal Monitoring Technologies	✓
CPU multiplier (bus/core ratio)	23	Processor package size	37.5x37.5 (rPGA988B); 31 x 24 (BGA1023)
ECC supported by processor	✗	Supported instruction sets	AVX
Memory		Embedded options available	✗
Internal memory *	4 GB	Graphics & IMC lithography	32 nm
Internal memory type	DDR3-SDRAM	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Memory clock speed	1333 MHz	Intel Identity Protection Technology version	1.00
Memory slots	2x SO-DIMM	Intel Virtualization Technology (VT-x)	✓
Maximum internal memory *	8 GB	Intel Dual Display Capable Technology	✓
Storage		Intel FDI Technology	✓
Total storage capacity *	320 GB	Intel Rapid Storage Technology	✗
Storage media *	HDD	Intel Fast Memory Access	✓
Number of HDDs installed	1	Processor ARK ID	52224
HDD capacity	320 GB	Conflict-Free processor	✗
HDD interface	SATA	Integrated 4G WiMAX	✓
HDD speed	7200 RPM	Battery	
Optical drive type *	DVD±RW	Battery life (max)	9 h
Card reader integrated	✓	Power	
Compatible memory cards	MMC, SD, SDHC, SDXC	AC adapter power	90 W
Graphics		DC-in jack	✓
Discrete graphics card model *	Not available	Security	
On-board graphics card *	✓	Cable lock slot	✓
Discrete graphics card *	✗	Fingerprint reader	✓
On-board graphics card family	Intel® HD Graphics	Trusted Platform Module (TPM)	✓
On-board graphics card model *	Intel® HD Graphics 3000	Password protection type	BIOS
On-board graphics card base frequency	650 MHz	Operational conditions	
On-board graphics card dynamic frequency (max)	1200 MHz	Operating temperature (T-T)	5 - 35 °C
On-board graphics card ID	0x116	Storage temperature (T-T)	5 - 43 °C
Maximum graphics card memory	0.256 GB	Operating relative humidity (H-H)	8 - 95%
Audio		Storage relative humidity (H-H)	5 - 95%
Audio system	HDA	Operating altitude	0 - 3048 m
Number of built-in speakers	2	Weight & dimensions	
Speaker power	1 W	Width	340 mm
Built-in subwoofer	✗	Depth	229.8 mm
Built-in microphone	✓	Height (front)	2.99 cm
Audio system direct 3D sound	✗	Height (rear)	3.04 cm
Network		Width (imperial)	34 cm (13.4")
Wi-Fi	✓	Depth (imperial)	23 cm (9.05")
Networking features	1Gb Ethernet	Height (front) (imperial)	3 cm (1.18")
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Height (rear) (imperial)	3.05 cm (1.2")
Ethernet LAN	✓	Weight *	2.24 kg
Bluetooth	✗	Packaging content	
WWAN	Installed	AC adapter included *	✓
Data network	Not supported	Handheld remote control	✗
Cabling technology	10/100/1000Base-T(X)	Other features	
4G WiMAX	✗	LightScribe	✗
Ports & interfaces		Infrared data port	✗
USB 2.0 ports quantity *	3	Graphics card family	Intel
eSATA/USB 2.0 ports quantity	1	3D	✗
Ethernet LAN (RJ-45) ports	1		
DisplayPorts quantity	1		
DVI port	✗		

Ports & interfaces		Other features	
VGA (D-Sub) ports quantity	1	Type	PC
Headphone outputs	1	Display	LED
S/PDIF out port	✗	Power requirements	100/240 V
Microphone in	✓	Hot keys	7
Line-in	✗	TV-in port	✗
Docking connector	✗	HDD user password	✓
ExpressCard slot	✓	Internal modem	✗
CardBus PCMCIA slot type	✗	Audio system full duplex	✗
SmartCard slot	✗	TV tuner integrated	✗
TV-out	✗	Intel segment tagging	Home office, Small Business
Performance			
Motherboard chipset	Intel® QM67 Express		
Keyboard			
Pointing device	ThinkPad UltraNav		
Numeric keypad *	✗		
Full-size keyboard	✗		
Keyboard number of keys	89		
Keyboard layout	QWERTY		

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