



Lenovo ThinkPad L420 Intel® Core™ i5 i5-2410M 35,6 cm (14") 4 GB DDR3-SDRAM 320 GB HDD Windows 7 Professional

Brand : Lenovo

Product family: ThinkPad

Product code: NYV4VMD-BNDL

Product name : L420



Lenovo ThinkPad L420. خانواده پردازنده: Intel® Core™ i5, مدل پردازنده: i5-2410M, Processor frequency: 2,3 GHz. 35,6 cm (14"), قطر صفحه نمایش: 1366 x 768 pixels. Internal memory: 4 GB, نوع حافظه داخلی: DDR3-SDRAM. 320 GB, ظرفیت کل ذخیره سازی: HDD, Storage media: DVD±RW. نوع درایو نوری: DVD±RW. وزن: 2,33 kg. سیستم عامل ارائه شده: Windows 7 Professional. مدل آداپتور گرافیکی در روی بورد: Intel® HD Graphics 3000.



Display		Ports & interfaces	
Display diagonal *	35.6 cm (14")	TV-out	×
Display resolution *	1366 x 768 pixels	Performance	
LED backlight	✓	Motherboard chipset	Intel® HM65 Express
Native aspect ratio	16:9	Keyboard	
Display brightness	220 cd/m ²	Pointing device	ThinkPad UltraNav
Contrast ratio (typical)	500:1	Numeric keypad *	×
Processor		Keyboard layout	QWERTY
Processor manufacturer *	Intel	Software	
Processor family *	Intel® Core™ i5	Operating system architecture	64-bit
Processor generation	2nd gen Intel® Core™ i5	Operating system installed *	Windows 7 Professional
Processor model *	i5-2410M	Processor special features	
Processor cores	2	Intel® Wireless Display (Intel® WiDi)	✓
Processor threads	4	Intel® My WiFi Technology (Intel® MWT)	✓
Processor boost frequency	2.9 GHz	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor frequency *	2.3 GHz	Intel® Identity Protection Technology (Intel® IPT)	✓
System bus rate	5 GT/s	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cache	3 MB	Intel® Turbo Boost Technology	2.0
Processor cache type	Smart Cache	Enhanced Intel SpeedStep Technology	✓
Processor socket	BGA 1023	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor lithography	32 nm	Intel Clear Video Technology	×
Processor operating modes	64-bit	Intel® InTru™ 3D Technology	✓
Processor series	Intel Core i5-2400 Mobile Series	Intel® Insider™	×
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	Intel® Quick Sync Video Technology	✓
PCI Express configurations	1x8, 1x16, 2x4, 2x8	Intel Flex Memory Access	✓
CPU multiplier (bus/core ratio)	23	Intel® Smart Cache	✓
ECC supported by processor	✗	Intel® AES New Instructions (Intel® AES-NI)	✗
Memory		Intel Trusted Execution Technology	✗
Internal memory *	4 GB	Intel Enhanced Halt State	✓
Internal memory type	DDR3-SDRAM	Intel VT-x with Extended Page Tables (EPT)	✓
Memory clock speed	1333 MHz	Intel Demand Based Switching	✗
Memory slots	2x SO-DIMM	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Maximum internal memory *	8 GB	Intel 64	✓
Storage		Execute Disable Bit	✓
Total storage capacity *	320 GB	Idle States	✓
Storage media *	HDD	Thermal Monitoring Technologies	✓
Number of HDDs installed	1	Processor package size	37.5x37.5 (rPGA988B); 31 x 24 (BGA1023)
HDD interface	SATA	Supported instruction sets	AVX
HDD speed	5400 RPM	Embedded options available	✗
Optical drive type *	DVD±RW	Graphics & IMC lithography	32 nm
Card reader integrated	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Compatible memory cards	MMC, SD, SDHC, SDXC	Intel Identity Protection Technology version	1.00
Graphics		Intel Virtualization Technology (VT-x)	✓
Discrete graphics card model *	Not available	Intel Dual Display Capable Technology	✓
On-board graphics card *	✓	Intel FDI Technology	✓
Discrete graphics card *	✗	Intel Rapid Storage Technology	✗
On-board graphics card family	Intel® HD Graphics	Intel Fast Memory Access	✓
On-board graphics card model *	Intel® HD Graphics 3000	Processor ARK ID	52224
On-board graphics card base frequency	650 MHz	Conflict-Free processor	✗
On-board graphics card dynamic frequency (max)	1200 MHz	Integrated 4G WiMAX	✓
On-board graphics card ID	0x116	Battery	
Audio		Battery technology	Lithium-Ion (Li-Ion)
Audio system	High Definition Audio	Number of battery cells	6
Number of built-in speakers	2	Battery life (max)	7 h
Speaker power	1.5 W	Power	
Built-in microphone	✓	DC-in jack	✓
Network		Security	
Wi-Fi	✓	Cable lock slot	✓
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Cable lock slot type	IBM
Ethernet LAN	✓	Fingerprint reader	✓
Bluetooth	✓	Weight & dimensions	
Bluetooth version	3.0+HS	Width	344 mm
Cabling technology	10/100/1000Base-T(X)	Depth	233 mm
Ports & interfaces		Height (front)	3.2 cm
USB 2.0 ports quantity *	3	Height (rear)	3.6 cm
eSATA/USB 2.0 ports quantity	1	Weight *	2.33 kg
Ethernet LAN (RJ-45) ports	1	Other features	
DisplayPorts quantity	1	Infrared data port	✗
DVI port	✗	Graphics card family	Intel
VGA (D-Sub) ports quantity	1	Intel segment tagging	Home office, Small Business
Headphone outputs	1		
S/PDIF out port	✗		
Microphone in	✓		
Docking connector	✓		
ExpressCard slot	✓		
CardBus PCMCIA slot type	✗		
SmartCard slot	✓		

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