



## Lenovo ThinkPad L420 Intel® Core™ i5 i5-2430M Computador portátil 35,6 cm (14") 4 GB DDR3-SDRAM 500 GB HDD Windows 7 Professional Preto

Marca : Lenovo

Família do produto: ThinkPad Código do produto: NYV5HFR

Nome do produto : L420



Lenovo ThinkPad L420. Tipo de produto: Computador portátil. Família de processador: Intel® Core™ i5, Modelo de processador: i5-2430M, Frequência do processador: 2,4 GHz. Tamanho do ecrã na diagonal: 35,6 cm (14"), Resolução: 1366 x 768 pixels. Capacidade da memória incorporada: 4 GB, Tipo de memória interna: DDR3-SDRAM. Capacidade total de armazenamento: 500 GB, Armazenamento: HDD, Tipo de unidades óptica: DVD-RW. Modelo da placa gráfica on-board: Intel® HD Graphics 3000. Sistema operativo instalado: Windows 7 Professional. Cor do produto: Preto. Peso: 2,3 kg

Design		Keyboard	
Product type *	Laptop	Full-size keyboard	✓
Product colour *	Black	Software	
Display		Operating system architecture	64-bit
Display diagonal *	35.6 cm (14")	Drivers included	✓
Display resolution *	1366 x 768 pixels	Operating system installed *	Windows 7 Professional
LED backlight	✓	Processor special features	
Native aspect ratio	16:9	Intel® Wireless Display (Intel® WiDi)	✓
Processor		Intel® My WiFi Technology (Intel® MWT)	✓
Processor manufacturer *	Intel	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor family *	Intel® Core™ i5	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor generation	2nd gen Intel® Core™ i5	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor model *	i5-2430M	Intel® Turbo Boost Technology	2.0
Processor cores	2	Enhanced Intel SpeedStep Technology	✓
Processor threads	4	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor boost frequency	3 GHz	Intel Clear Video Technology	✗
Processor frequency *	2.4 GHz	Intel® InTru™ 3D Technology	✓
System bus rate	5 GT/s	Intel® Insider™	✓
Processor cache	3 MB	Intel® Quick Sync Video Technology	✓
Processor cache type	Smart Cache	Intel Flex Memory Access	✓
Processor socket	Socket 988	Intel® Smart Cache	✓
Processor lithography	32 nm	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor operating modes	64-bit	Intel Trusted Execution Technology	✗
Processor series	Intel Core i5-2400 Mobile Series	Intel Enhanced Halt State	✓
Processor codename	Sandy Bridge	Intel VT-x with Extended Page Tables (EPT)	✓
Bus type	DMI	Intel Demand Based Switching	✗
FSB Parity	✗	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Stepping	J1	Memory	
Thermal Design Power (TDP)	35 W	Intel 64	✓
Tjunction	100 °C	Execute Disable Bit	✓
Maximum number of PCI Express lanes	16	Idle States	✓
PCI Express slots version	2.0	Thermal Monitoring Technologies	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4		
CPU multiplier (bus/core ratio)	24		
ECC supported by processor	✗		
Memory			
Internal memory *	4 GB		
Internal memory type	DDR3-SDRAM		
Memory clock speed	1333 MHz		
Maximum internal memory *	8 GB		

Storage		Processor special features	
Total storage capacity *	500 GB	Processor package size	37.5x37.5 (rPGA988B); 31 x 24 (BGA1023)
Storage media *	HDD	Supported instruction sets	AVX
Number of HDDs installed	1	Processor code	SR04W
HDD capacity	500 GB	CPU configuration (max)	1
HDD interface	SATA	Embedded options available	✗
HDD speed	7200 RPM	Graphics & IMC lithography	32 nm
Optical drive type *	DVD-RW	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Card reader integrated	✓	Intel Identity Protection Technology version	1.00
Compatible memory cards	MMC	Intel Virtualization Technology (VT-x)	✓
Graphics		Intel Dual Display Capable Technology	✓
On-board graphics card *	✓	Intel FDI Technology	✓
On-board graphics card family	Intel® HD Graphics	Intel Rapid Storage Technology	✗
On-board graphics card model *	Intel® HD Graphics 3000	Intel Fast Memory Access	✓
On-board graphics card base frequency	650 MHz	Processor ARK ID	53450
On-board graphics card dynamic frequency (max)	1200 MHz	Conflict-Free processor	✗
On-board graphics card ID	0x116	Integrated 4G WiMAX	✓
Audio		Power	
Audio system	HD	AC adapter frequency	50 - 60 Hz
Number of built-in speakers	2	AC adapter input voltage	100 - 240 V
Built-in microphone	✓	DC-in jack	✓
Network		Security	
Wi-Fi	✓	Cable lock slot	✓
Networking features	Gigabit Ethernet	Cable lock slot type	Kensington
Wi-Fi standards	802.11a, 802.11g, Wi-Fi 4 (802.11n)	Fingerprint reader	✓
Ethernet LAN	✓	Weight & dimensions	
Ethernet LAN data rates	10,100,1000 Mbit/s	Width	343 mm
Bluetooth	✗	Depth	232 mm
Cabling technology	10/100/1000Base-T(X)	Height (front)	3.2 cm
Ports & interfaces		Height (rear)	3.6 cm
USB 2.0 ports quantity *	4	Weight *	2.3 kg
eSATA ports quantity	1	Packaging content	
Ethernet LAN (RJ-45) ports	1	AC adapter included *	✓
DisplayPorts quantity	1	Manual	✓
DVI port	✗	Quick start guide	✓
VGA (D-Sub) ports quantity	1	Other features	
S/PDIF out port	✗	Wireless technology	802.11 a/g/n
Microphone in	✗	Infrared data port	✗
Line-in	✓	Graphics card family	Intel
Combo headphone/mic port	✓	Display	TFT
Docking connector	✓	Power supply type	AC/DC
CardBus PCMCIA slot type	✗	Compliance industry standards	IEEE 802.3/802.3u/802.3ab
TV-out	✗	Intel segment tagging	Home office, Small Business
Performance			
Motherboard chipset	Intel® HM65 Express		
Keyboard			
Pointing device	Touchpad		
Numeric keypad *	✗		

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