



## Lenovo ThinkPad L440 Intel® Core™ i7 i7-4600M Laptop 35.6 cm (14") HD+ 4 GB DDR3-SDRAM 500 GB HDD Windows 7 Professional Preload Black

**Brand :** Lenovo

**Product family:** ThinkPad

**Product code:** 20AT002LCA

**Product name :** L440

Intel Core i7-4600M 2.9GHz, 4GB DDR3, 500GB HDD, 14" HD+ (1600x900), DVD-RW, Gigabit Ethernet, 802.11ac/a/b/g/n, Bluetooth, Windows 7 Professional Preload 64-Bit/Windows 8 Pro  
Lenovo ThinkPad L440. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-4600M, Processor frequency: 2.9 GHz. Display diagonal: 35.6 cm (14"), HD type: HD+, Display resolution: 1600 x 900 pixels. Internal memory: 4 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 500 GB, Storage media: HDD, Optical drive type: DVD-RW. Operating system installed: Windows 7 Professional Preload. Product colour: Black



Design		Software	
Product type *	Laptop	Operating system installed *	Windows 7 Professional Preload
Product colour *	Black	<b>Processor special features</b>	
Form factor *	Clamshell		
Display		Intel® Wireless Display (Intel® WiDi)	✓
Display diagonal *	35.6 cm (14")	Intel® My WiFi Technology (Intel® MWT)	✗
Display resolution *	1600 x 900 pixels	Intel Smart Connect Technology	✗
Touchscreen *	✗	Intel® Anti-Theft Technology (Intel® AT)	✓
HD type	HD+	Intel® Rapid Start Technology	✗
LED backlight	✓	Intel® Smart Response Technology	✗
Native aspect ratio	16:9	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor		Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor manufacturer *	Intel	Intel® Turbo Boost Technology	2.0
Processor family *	Intel® Core™ i7	Intel® Small Business Advantage (Intel® SBA)	✗
Processor generation	4th gen Intel® Core™ i7	Intel® Matrix Storage Technology (Intel® MST)	✗
Processor model *	i7-4600M	Intel® High Definition Audio (Intel® HD Audio)	✗
Processor cores	2	Intel® Active Management Technology (Intel® AMT)	✗
Processor threads	4	Enhanced Intel SpeedStep Technology	✓
Processor boost frequency	3.6 GHz	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor frequency *	2.9 GHz	Intel Clear Video Technology	✗
System bus rate	5 GT/s	Intel® InTru™ 3D Technology	✓
Processor cache	4 MB	Intel® Insider™	✓
Processor cache type	Smart Cache	Intel® Quick Sync Video Technology	✓
Processor socket	PGA946	Intel Flex Memory Access	✗
Processor lithography	22 nm	Intel® Smart Cache	✓
Processor operating modes	64-bit		
Processor series	Intel Core i7-4600 Mobile series		
Processor codename	Haswell		
Bus type	DMI		
FSB Parity	✗		
Stepping	C0		
Thermal Design Power (TDP)	37 W		
Tjunction	100 °C		

Processor		Processor special features	
Maximum number of PCI Express lanes	16	Intel® AES New Instructions (Intel® AES-NI)	✓
PCI Express slots version	3.0	Intel Trusted Execution Technology	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel Enhanced Halt State	✗
ECC supported by processor	✗	Intel VT-x with Extended Page Tables (EPT)	✓
Memory		Intel Demand Based Switching	✗
Internal memory *	4 GB	Intel® Secure Key	✓
Internal memory type	DDR3-SDRAM	Intel TSX-NI	✗
Memory clock speed	1333 MHz	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Memory slots	2x SO-DIMM	Intel 64	✓
Maximum internal memory *	16 GB	Execute Disable Bit	✓
Storage		Idle States	✓
Total storage capacity *	500 GB	Thermal Monitoring Technologies	✓
Storage media *	HDD	Processor package size	37.5 x 37.5 x 4.7 mm
Number of HDDs installed	1	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
HDD capacity	500 GB	Processor code	SR1H7
HDD interface	SATA	CPU configuration (max)	1
HDD speed	7200 RPM	Embedded options available	✗
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, SD, SDHC, SDXC	Intel Secure Key Technology version	1.00
Graphics		Intel TSX-NI version	0.00
On-board graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
On-board graphics card family	Intel® HD Graphics	Intel Dual Display Capable Technology	✗
On-board graphics card model *	Intel® HD Graphics 4600	Intel FDI Technology	✓
On-board graphics card base frequency	400 MHz	Intel Rapid Storage Technology	✗
On-board graphics card dynamic frequency (max)	1300 MHz	Intel Fast Memory Access	✗
Maximum on-board graphics card memory	1.74 GB	Processor ARK ID	76349
On-board graphics card DirectX version	11.2/12	Conflict-Free processor	✓
On-board graphics card ID	0x416	Battery	
Audio		Battery technology	Lithium-Ion (Li-Ion)
Audio system	Dolby Advanced	Number of battery cells	9
Number of built-in speakers	2	Battery capacity *	99 Wh
Built-in microphone	✓	Battery life (max)	13 h
Camera		Power	
Front camera	✓	AC adapter frequency	50 - 60 Hz
Front camera resolution	1280 x 720 pixels	AC adapter input voltage	100 - 240 V
Network		DC-in jack	✓
Wi-Fi	✓	Security	
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Cable lock slot	✗
Wi-Fi data rate (max)	500 Mbit/s	Fingerprint reader	✓
Ethernet LAN	✓	Certificates	
Ethernet LAN data rates	10,100,1000 Mbit/s	Wi-Fi certified	✓
Bluetooth	✓	Weight & dimensions	
WWAN	Installed	Width	344 mm
Ports & interfaces		Depth	238.7 mm
USB 2.0 ports quantity *	3	Height	26.4 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1	Weight *	2.25 kg
Ethernet LAN (RJ-45) ports	1	Packaging content	
Mini DisplayPorts quantity	1	AC adapter included *	✓
DVI port	✗		

Ports & interfaces		Packaging content	
VGA (D-Sub) ports quantity	1	Manual	✓
S/PDIF out port	✗	Quick start guide	✓
Microphone in	✗	Other features	
Combo headphone/mic port	✓	Maximum internal memory (64-bit)	16 GB
Docking connector	✗	Intel segment tagging	Home office, Small Business
ExpressCard slot	✓		
CardBus PCMCIA slot type	✗		
Keyboard			
Pointing device	Trackpad		
Numeric keypad *	✗		
Full-size keyboard	✓		
Windows keys	✓		
Software			
Operating system architecture	64-bit		
Recovery operating system	Windows 8 Pro		

## Catalog Object Cloud



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