



Lenovo ThinkPad L440 Intel® Core™ i5 i5-4210M Laptop 35.6 cm (14") HD 4 GB DDR3L-SDRAM 500 GB HDD Windows 8 Pro

Brand : Lenovo

Product family: ThinkPad

Product code: 20ASA1QQIG

Product name : L440

14" HD LED 1366 x 768, Intel Core i5-4210M (3M Cache, 2.6 GHz), 4GB DDR3L, 500GB HDD, Intel HD Graphics 4600, WLAN, Gigabit Ethernet, Windows 8 Pro 64-bit
Lenovo ThinkPad L440. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor: i5-4210M, Processor frequency: 2.6 GHz. Display diagonal: 35.6 cm (14"), HD type: HD, Display resolution: 1366 x 768 pixels. Internal memory: 4 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 500 GB, Storage media: HDD, Optical drive type: DVD Super Multi DL. On-board graphics card model: Intel® HD Graphics 4600. Operating system installed: Windows 8 Pro



Design		Ports & interfaces	
Product type *	Laptop	Combo headphone/mic port	✓
Form factor *	Clamshell	Docking connector	✓
Housing material	Acrylonitrile butadiene styrene (ABS), Plastic, Polycarbonate (PC)	ExpressCard slot	✗
Market positioning	High performance	CardBus PCMCIA slot type	✗
Display		SmartCard slot	✗
Display diagonal *	35.6 cm (14")	USB Sleep-and-Charge ports	1
Display resolution *	1366 x 768 pixels	Performance	
Touch screen *	✗	Motherboard chipset	Intel® QM87
HD type	HD	Keyboard	
LED backlight	✓	Pointing device	ThinkPad UltraNav
Native aspect ratio	16:9	Numeric keypad *	✗
Screen shape	Flat	Spill-resistant keyboard	✓
Processor		Full-size keyboard	✗
Processor manufacturer *	Intel	Windows keys	✓
Processor family *	Intel® Core™ i5	Software	
Processor generation	4th gen Intel® Core™ i5	Operating system architecture	64-bit
Processor *	i5-4210M	Operating system installed *	Windows 8 Pro
Processor number of cores	2	Processor special features	
Processor threads	4	Intel Wireless Display (WiDi) Technology	✓
Processor boost frequency	3.2 GHz	Intel Anti-Theft Technology	✓
Processor frequency *	2.6 GHz	Intel Identity Protection Technology	✓
System bus data transfer rate	5 GT/s	Intel Hyper-Threading Technology	✓
Processor cache	3 MB	Intel Turbo Boost Technology	2.0
Processor cache type	Smart Cache	Enhanced Intel SpeedStep Technology	✓
Processor socket	PGA946		
Processor lithography	22 nm		
Processor operating modes	64-bit		
Processor series	Intel Core i5-4200 Mobile series		

Processor		Processor special features	
Processor codename	Haswell	Intel Clear Video HD Technology	✓
Bus type	DMI	Intel® InTru™ 3D Technology	✓
Stepping	C0	Intel® Insider™	✓
Thermal Design Power (TDP)	37 W	Intel® Quick Sync Video Technology	✓
Tjunction	100 °C	Intel® Smart Cache	✓
Maximum number of PCI Express lanes	16	Intel AES New Instructions	✓
PCI Express slots version	3.0	Intel Trusted Execution Technology	✗
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel VT-x with Extended Page Tables (EPT)	✓
ECC supported by processor	✗	Intel® Secure Key	✓
Memory		Intel TSX-NI	✗
Internal memory *	4 GB	Intel 64	✓
Internal memory type	DDR3L-SDRAM	Execute Disable Bit	✓
Memory clock speed	1600 MHz	Idle States	✓
Memory form factor	SO-DIMM	Thermal Monitoring Technologies	✓
Memory layout (slots x size)	1 x 4 GB	Processor package size	37.5 x 37.5 x 4.7 mm
Memory slots	2x SO-DIMM	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Maximum internal memory *	16 GB	Processor code	SR1L4
Storage		CPU configuration (max)	1
Total storage capacity *	500 GB	Embedded options available	✗
Storage media *	HDD	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Number of hard drives installed	1	Intel Identity Protection Technology version	1.00
Hard drive capacity	500 GB	Intel Secure Key Technology version	1.00
Hard drive rotational speed	7200 RPM	Intel TSX-NI version	0.00
Hard drive size	2.5"	Intel Virtualization Technology (VT-x)	✓
Optical drive type *	DVD Super Multi DL	Processor ARK ID	81012
Card reader integrated	✓	Conflict-Free processor	✓
Compatible memory cards	MMC, SD, SDHC, SDXC	Battery	
Graphics		Battery technology	Lithium-Ion (Li-Ion)
Discrete graphics card model *	Not available	Number of battery cells	6
On-board graphics card *	✓	Battery capacity *	56 Wh
Discrete graphics card *	✗	Battery life (max)	11 h
On-board graphics card model *	Intel® HD Graphics 4600	Energy Management	
On-board graphics card base frequency	400 MHz	AC adapter power	65 W
On-board graphics card dynamic frequency (max)	1150 MHz	AC adapter frequency	50 - 60 Hz
Maximum on-board graphics card memory	1.74 GB	AC adapter input voltage	100 - 240 V
On-board graphics card DirectX version	11.1	DC-in jack	✓
On-board graphics card ID	0x416	Security	
Audio		Cable lock slot	✗
Number of built-in speakers	2	Fingerprint reader	✓
Built-in microphone	✓	Password protection type	HDD, Power on, Supervisor
Camera		Certificates	
Front camera	✓	Compliance certificates	RoHS
Network		Sustainability	
Wi-Fi	✓	Sustainability certificates	EPEAT Gold
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Weight & Dimensions	
Ethernet LAN connection	✓	Width	344 mm
Ethernet LAN data rates	10,100,1000 Mbit/s	Depth	239 mm
Bluetooth	✓	Height (front)	2.9 cm
Bluetooth version	4.0	Height (rear)	3.42 cm
Ports & interfaces		Weight *	2.27 kg
USB 2.0 ports quantity *	3		

Ports & interfaces		Packaging Content	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1	AC adapter bundled *	✓
Ethernet LAN (RJ-45) ports quantity	1	Manual	✓
Mini DisplayPort quantity	1	Power cord included	✓
DVI port	✗	Other features	
VGA (D-Sub) ports quantity	1	LightScribe	✗
S/PDIF out port	✗	Intel segment tagging	Home office, Small Business
Microphone in	✗		

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