ThinkPad L440 Platform Specifications

Positioning
Mainstream value performance; two spindles

Processor
Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Speed	Processor Graphics
Cel 2950M	2	2	2 GHz	-	2MB	DDR3L-1600	Intel HD Graphics
i3-4000M		4	2.4 GHz	-	3MB		Intel HD Graphics 4600
i3-4100M			2.5 GHz	-	3MB		
i5-4200M			2.5 GHz	3.1 GHz	3MB		
i5-4210M			2.6 GHz	3.2 GHz	3MB		
i5-4300M			2.6 GHz	3.3 GHz	3MB		
i5-4330M			2.8 GHz	3.5 GHz	3MB		
i7-4600M			2.9 GHz	3.6 GHz	4MB		
i7-4702MQ	4	8	2.2 GHz	3.2 GHz	6MB		
i7-4712MQ			2.3 GHz	3.3 GHz	6MB		

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Optical
DVD burner, 9.5mm high, fixed, not removable, tray-in

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

M.2 SSD
Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Widescreen display
Some: **14.0"** (355mm) **HD (1366x768)**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio
Some: **14.0"** (355mm) **HD+ (1600x900)**, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 500:1 contrast ratio

Camera *(optional)*
HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics
Intel HD Graphics 4600 in processor, supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports dual independent display;
Max resolution: 3840x2160@30Hz (DP via mDP cable); 1920x1200@60Hz (VGA)

Keyboard
6-row, spill-resistant, multimedia Fn keys

UltraNav™
TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

ThinkLight™
None

Dimensions[3]
14.0W" (WxDxH): 13.54" x 9.41" x 1.14-1.35"; 344mm x 239mm x 29.0-34.25mm

Weight[2]

Models	*6-cell 48Wh*	*6-cell 56Wh*	*9-cell 99.9Wh*
Weight	4.96 lb / 2.25kg	5.0 lb / 2.27kg	5.36 lb / 2.43kg

Case material
PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Battery type
Li-Ion 6-cell *(48Wh or 56Wh)* or 9-cell *(99.9Wh)*, HW Authentication

Max battery life[10]

Models	*6-cell 48Wh*	*6-cell 56Wh*	*9-cell 99.9Wh*
Win7 (MobileMark® 2007)	10 hr	11 hr	21 hr
Win8 (MobileMark 2012)	6.2 hr	7.5 hr	13 hr

AC adapter
65-watt AC adapter

Chipset
Mobile Intel QM87 (*vPro model*) or **HM86** (*Non-vPro model*) **Express Chipset**

ExpressCard *(opt)*
One slot (ExpressCard/34, ExpressCard/54)

Smart card reader
Optional: Smart card reader

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

Audio support
HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

WLAN[4]
One of the following, configurable by model:
- ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- Intel Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card

WWAN *(optional)*
One of the following, configurable by model (mutually exclusive with M.2 SSD):
- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models)
- Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models)
- Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models)

SIM card *(optional)*
One of the following, configurable by model:
- AT&T® or Verizon® LTE (4G), contract required with service provider (US models)
- Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required (WE models)
- User selectable, contract required with service provider

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet
HM86 model: Intel Ethernet Connection I217-V (Clarkville)
QM87 model: Intel Ethernet Connection I217-LM (Clarkville)

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*
Intel vPro Technology

Fingerprint reader
Optional: Fingerprint reader on the keyboard bezel, swipe sensor

Limited warranty[12]
One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Preload
Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Lenovo Cloud Storage by SugarSync
- PC Device Stage
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)
- Cyberlink PowerDVD
- Cyberlink Power2Go
- Cyberlink PowerProducer

Some: Windows 8 / 8.1 64-bit
Some: Windows 8 / 8.1 Pro 64-bit
Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

Mil-Spec test
MIL-STD-810G military certification

Environment
EPEAT™ Gold; ENERGY STAR® 6.0; RoHS-compliant

Model	20AS0012++
Product	L440
Region	WE
Machine Type	20AS
TopSeller	No
Processor	i5-4200M (2C, 2.5 / 3.1GHz, 3MB, 1600MHz)
vPro	No
Graphics	Intel HD Graphics 4600
Chipset	Intel HM86
Memory	4GBx1
Display	14" HD (1366x768)
Storage	500GB 7200rpm
Optical	DVD±RW
WLAN &Bluetooth	Intel 6235 a/b/g/n + BT4.0
WWAN / M.2 SSD	WWAN upgradable
SIM Card	None
Smart Card Reader	None
ExpressCard	ExpressCard/54
Camera	720p
Backlit Keyboard	None
Fingerprint Reader	None
Battery Cells	6-cell (48Wh)
Power Adapter (watt)	65W
Preload	Windows 8 Pro 64-bit
Base Warranty	3-year depot
Global	Yes
Ann Date (mm/yy)	09/13


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