ThinkPad L450 Platform Specifications

Processor

Intel® Celeron® processor, 4th Generation Intel Core™ i5 Processor, or 5th Generation Intel Core i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
Cel 3205U	2	2	1.5 GHz	-	2MB	DDR3L-1600	Intel HD Graphics
i5-4300U		4	1.9 GHz	2.9 GHz	3MB		Intel HD Graphics 4400
i3-5005U			2 GHz	-	3MB		Intel HD Graphics 5500
i5-5200U			2.2 GHz	2.7 GHz	3MB		
i5-5300U			2.3 GHz	2.9 GHz	3MB		
i7-5500U			2.4 GHz	3 GHz	4MB		

Graphics

Intel HD Graphics or Intel HD Graphics 4400 / 5500 in processor only, or Intel HD Graphics 5500 in processor and AMD Radeon™ R5 M240, 2GB memory (discrete models are only available in Western Europe); supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)

Chipset

Intel SoC (System on Chip) platform

Memory

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

Display

Some: 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS

Multi-touch

None

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 *(opt)*

M.2 Solid State Drive (SSD), via M.2 card slot

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I218-V (Clarkville)
vPro model: Intel Ethernet Connection I218-LM (Clarkville)

Bluetooth™

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

WLAN[4]

One of the following, configurable by model:

- 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card (WE only)
- 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card (WE only)
- 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card

WWAN *(optional)*

One of the following, configurable by model:

- Wireless WAN upgradable
- Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE only)
- Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)*

AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3]

14.0" (WxDxH): 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm

Weight[2]

Models	*3-cell*	*6-cell*
Integrated	4.25 lb / 1.93 kg	4.43 lb / 2.01 kg
Discrete	4.30 lb / 1.95 kg	4.50 lb / 2.04 kg

Case material

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

Smart card reader

Optional: Smart card reader

Media reader

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

Ports

Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)

Camera *(optional)*

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys

UltraNav™

TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security

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

Security chip

Trusted Platform Module, TCG 1.2-compliant

ThinkEngine

Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Fingerprint reader on the keyboard bezel, swipe sensor

Battery type

Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*3-cell 23Wh*	*6-cell 48Wh*	*6-cell 72Wh*
Integrated	5.2 hr	10.7 hr	16 hr
Discrete	5.1 hr	10.6 hr	15.9 hr

AC adapter

45W AC adapter or 65W AC adapter

Preload

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- PC Device Stage
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo Settings
- 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)

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)

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold; ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

Model	20DS0004++
Product	ThinkPad L450
Region	EMEA
Machine Type	20DS
TopSeller	No
Processor	Core i5-5200U (2C, 2.2 / 2.7GHz, 3MB)
vPro	No
Graphics	AMD Radeon R5 M240 2GB
Memory	4GBx1
Display	14" FHD (1920x1080) IPS
Multi-touch	None
Storage	500GB 7200rpm
M.2 SSD	None
Optical	None
WLAN + Bluetooth	Intel 7265 ac, 2x2 + BT4.0
WWAN	WWAN Upgradable
SIM Card	None
Smart Card Reader	Smart Card Reader
Camera	720p
Keyboard	Non-backlit
Fingerprint Reader	Fingerprint Reader
Battery	6-cell (48Wh)
Power Adapter	65W
Operating System	Windows 8.1 DG Windows 7 Pro 64
Warranty	1-year, Depot
Global	No
Ann Date (mm/yy)	01/15














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