



Lenovo ThinkPad L450 Intel® Core™ i5 i5-5200U Laptop 35,6 cm (14") Full HD 8 GB DDR3L-SDRAM 256 GB SSD Windows 7 Professional Black

Brand : Lenovo

Product family: ThinkPad

Product code: 20DT001TPB

Product name : L450

14" LED Full HD 1920 x 1080, Intel Core i5-5200U (3M Cache, 2.2 GHz), 8GB DDR3L, Intel HD Graphics 5500, 256GB SSD, WLAN, Gigabit Ethernet, Bluetooth 4.0, Windows 7 Pro 64-bit
Lenovo ThinkPad L450. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-5200U, Processor frequency: 2.2 GHz. Display diagonal: 35,6 cm (14"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 256 GB, Storage media: SSD. Mobile network generation: 4G. Operating system installed: Windows 7 Professional. Product colour: Black



Design		Keyboard	
Product type *	Laptop	Pointing device	ThinkPad UltraNav
Product colour *	Black	Numeric keypad *	✗
Form factor *	Clamshell	Spill-resistant keyboard	✓
Display		Full-size keyboard	✓
Display diagonal *	35,6 cm (14")	Windows keys	✓
Display resolution *	1920 x 1080 pixels	Software	
Touchscreen *	✗	Operating system architecture	64-bit
HD type	Full HD	Recovery operating system	Windows 10 Pro
LED backlight	✓	Operating system installed *	Windows 7 Professional
Native aspect ratio	16:9	Processor special features	
Display surface	Matt	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® Smart Response Technology	✓
Processor generation	5th gen Intel® Core™ i5	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor model *	i5-5200U	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cores	2	Intel® Turbo Boost Technology	2.0
Processor threads	4	Intel® Small Business Advantage (Intel® SBA)	✓
Processor boost frequency	2,7 GHz	Enhanced Intel SpeedStep Technology	✓
Processor frequency *	2,2 GHz	Intel® Built-in Visuals Technology	✓
System bus rate	5 GT/s	Intel HD Graphics	✓
Processor cache	3 MB	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cache type	Smart Cache	Intel Clear Video Technology	✓
Processor socket	BGA 1168	Intel® InTru™ 3D Technology	✓
Processor lithography	14 nm		
Processor operating modes	32-bit, 64-bit		
Processor series	Intel® Core™ i5-5200 Mobile Series		
Processor codename	Broadwell		
Bus type	DMI2		
FSB Parity	✗		
Stepping	F0		

Processor		Processor special features	
Thermal Design Power (TDP)	15 W	Intel® Insider™	✓
Configurable TDP-down	7,5 W	Intel® Quick Sync Video Technology	✓
Configurable TDP-down frequency	0,6 GHz	Intel Flex Memory Access	✓
Tjunction	105 °C	Intel® Smart Cache	✗
Maximum number of PCI Express lanes	12	Intel® AES New Instructions (Intel® AES-NI)	✓
PCI Express slots version	2.0	Intel Trusted Execution Technology	✗
PCI Express configurations	4x1, 2x4	Intel Enhanced Halt State	✓
ECC supported by processor	✗	Intel VT-x with Extended Page Tables (EPT)	✓
Memory		Intel Demand Based Switching	✗
Internal memory *	8 GB	Intel® Secure Key	✓
Internal memory type	DDR3L-SDRAM	Intel® OS Guard	✓
Memory clock speed	1600 MHz	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Memory form factor	SO-DIMM	Intel 64	✓
Memory slots	2x SO-DIMM	Execute Disable Bit	✓
Maximum internal memory *	16 GB	Idle States	✓
Storage		Thermal Monitoring Technologies	✓
Total storage capacity *	256 GB	Processor package size	40 x 24 x 1.3 mm
Storage media *	SSD	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Number of SSDs installed	1	Processor code	SR23Y
SSD capacity	256 GB	CPU configuration (max)	1
Optical drive type *	✗	Embedded options available	✗
Card reader integrated	✓	Graphics & IMC lithography	14 nm
Compatible memory cards	MMC, SD, SDHC, SDXC	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Graphics		Intel Identity Protection Technology version	1,00
Discrete graphics card model *	Not available	Intel Smart Response Technology version	1,00
On-board graphics card *	✓	Intel Secure Key Technology version	1,00
Discrete graphics card *	✗	Intel Small Business Advantage (SBA) version	1,00
On-board graphics card family	Intel® HD Graphics	Intel Virtualization Technology (VT-x)	✓
On-board graphics card model *	Intel® HD Graphics 5500	Intel Dual Display Capable Technology	✗
On-board graphics card base frequency	300 MHz	Intel FDI Technology	✓
On-board graphics card dynamic frequency (max)	900 MHz	Intel Rapid Storage Technology	✗
Maximum on-board graphics card memory	16 GB	Intel Fast Memory Access	✓
On-board graphics card DirectX version	11.2	Processor ARK ID	85212
On-board graphics card OpenGL version	4.3	Conflict-Free processor	✓
On-board graphics card ID	0x1616	Battery	
Graphics card Open GL support	✓	Battery technology	Lithium-Ion (Li-Ion)
Audio		Number of battery cells	6
Audio system	HD	Battery capacity *	48 Wh
Number of built-in speakers	2	Battery life (max)	10,7 h
Speaker power	2 W	Power	
Built-in microphone	✓	AC adapter power	45 W
Camera		DC-in jack	✓
Front camera	✓	Security	
Network		Cable lock slot	✓
Mobile network generation	4G	Trusted Platform Module (TPM)	✓
Wi-Fi	✓	Password protection	✓
Mobile network connection *	✓	Weight & dimensions	
Ethernet LAN	✓	Width	339 mm
Ethernet LAN data rates	10,100,1000 Mbit/s		
Bluetooth	✓		
Bluetooth version	4.0		

Ports & interfaces		Weight & dimensions	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3	Depth	235 mm
Ethernet LAN (RJ-45) ports	1	Height	24,3 mm
Mini DisplayPorts quantity	1	Weight *	2,01 kg
DVI port	✗	Packaging content	
VGA (D-Sub) ports quantity	1	AC adapter included *	✓
S/PDIF out port	✗	Other features	
Microphone in	✗	LightScribe	✗
Combo headphone/mic port	✓	Intel segment tagging	Home office, Small Business
ExpressCard slot	✗		
CardBus PCMCIA slot type	✗		
SmartCard slot	✗		
USB Sleep-and-Charge	✓		
USB Sleep-and-Charge ports	1		

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