

ThinkPad L450 Platform Specifications

Product Specifications Reference (PSREF)

Processor	Intel® Celeron® processor, 4th Generation Intel Core™ i5 Processor, or 5th Generation Intel Core i3 / i5 / i7 Processor	Dimensions ³	14.0" (WxDxH): 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm																																																	
	<table border="1"> <thead> <tr> <th>Processor Number</th> <th># of Cores</th> <th># of Threads</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Processor Graphics</th> </tr> </thead> <tbody> <tr> <td>Cel 3205U</td> <td rowspan="6">2</td> <td rowspan="6">4</td> <td>1.5 GHz</td> <td>-</td> <td>2MB</td> <td rowspan="6">DDR3L-1600</td> <td>Intel HD Graphics</td> </tr> <tr> <td>i5-4300U</td> <td>1.9 GHz</td> <td>2.9 GHz</td> <td>3MB</td> <td>Intel HD Graphics 4400</td> </tr> <tr> <td>i3-5005U</td> <td>2 GHz</td> <td>-</td> <td>3MB</td> <td rowspan="4">Intel HD Graphics 5500</td> </tr> <tr> <td>i5-5200U</td> <td>2.2 GHz</td> <td>2.7 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-5300U</td> <td>2.3 GHz</td> <td>2.9 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-5500U</td> <td>2.4 GHz</td> <td>3 GHz</td> <td>4MB</td> </tr> </tbody> </table>	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Cel 3205U	2	4	1.5 GHz	-	2MB	DDR3L-1600	Intel HD Graphics	i5-4300U	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	Weight ²	<table border="1"> <thead> <tr> <th>Models</th> <th>3-cell</th> <th>6-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>4.25 lb / 1.93 kg</td> <td>4.43 lb / 2.01 kg</td> </tr> <tr> <td>Discrete</td> <td>4.30 lb / 1.95 kg</td> <td>4.50 lb / 2.04 kg</td> </tr> </tbody> </table>			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
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		Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic																																																	
		Smart card reader	<i>Optional:</i> 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 (<i>optional</i>)	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																																																	
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	<i>Some:</i> 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS																																																			
Multi-touch	None																																																			
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™																																																			
M.2 SSD (<i>opt</i>)	<i>Some:</i> SSHD with 8GB NAND flash memory																																																			
Optical	M.2 Solid State Drive (SSD), via M.2 card slot																																																			
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I218-V (Clarkville)																																																			
Bluetooth™	<i>vPro model:</i> Intel Ethernet Connection I218-LM (Clarkville)																																																			
WLAN ⁴	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 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 (<i>optional</i>)	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 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 (<i>opt</i>)	AT&T® or Verizon® LTE (4G), contract required with service provider																																																			
		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 <ul style="list-style-type: none"> 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) <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit <i>Some:</i> Windows 10 Pro 64 <ul style="list-style-type: none"> 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	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 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																																																	