ThinkPad L540 20AV0072++

Region
WE

Machine Type
20AV

TopSeller
TopSeller

Processor
i5-4210M (2C, 2.6 / 3.2GHz, 3MB, 1600MHz)

vPro
No

Graphics
Intel HD Graphics 4600

Chipset
Intel HM86

Memory
4GBx1

Display
15.6" HD (1366x768)

Storage
500GB 7200rpm

Optical
DVD±RW

WLAN &Bluetooth
Intel 7260 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

Numeric Keypad
Numeric Keypad

Fingerprint Reader
Fingerprint Reader

Battery Cells
6-cell (48Wh)

Power Adapter (watt)
65W

Preload
Windows 10 DG Windows 7 Pro 64

Base Warranty
1-year depot

Global
No

Ann Date (mm/yy)
08/15

Note:
Country Code "US" is for United States, "++" is for EMEA countries (e.g. AD - Saudi, Arabia, AT - Austria, BM - Bulgaria, etc.), "xx" is for EAST countries (e.g. BM - Bulgaria, CX - Hungary, CY - Cyprus, etc.), and "**" is for MEA countries (e.g. AD - Saudi, Arabia, ED - Egypt, EQ - Sweden, etc.). Please be aware that the EMEA/ EAST/MEA models listed above might not be available in all countries

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ThinkPad L540 Platform Specifications

Lenovo

Positioning	*Mainstream business 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 GHz	-	2MB		Intel HD Graphics
i3-4000M			2.4 GHz	-	3MB		
i3-4100M			2.5 GHz	-	3MB		
i5-4200M	2	4	2.5 GHz	3.1 GHz	3MB		
i5-4210M			2.6 GHz	3.2 GHz	3MB	DDR3L-1600	Intel HD Graphics 4600
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 Storage	DVD burner, 9.5mm high, fixed, not removable, tray-in *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:* 15.6" (396mm) **HD (1366x768)**, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* 15.6" (396mm) **FHD (1920x1080)**, anti-glare, LED backlight, 300 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 UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch
ThinkLight™	None

Dimensions[3]

HD (WxDxH): 14.84" x 9.72" x 1.13-1.34";   377mm x 247mm x 28.8-34.05mm
FHD (WxDxH): 14.84" x 9.72" x 1.22-1.43";   377mm x 247mm x 31.0-36.25mm

Weight[2]

Models	6-cell 48Wh	6-cell 56Wh	9-cell 99.9Wh
HD	5.54lb / 2.52kg	5.60lb / 2.54kg	5.95lb / 2.70kg
FHD	5.68lb / 2.58kg	5.73lb / 2.60kg	6.08lb / 2.76kg

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)	9 hr	11 hr	19 hr
Win8 (MobileMark 2012)	6 hr	7 hr	12 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™ Ethernet	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter *HM86 model:* Intel Ethernet Connection I217-V (Clarkville) *QM87 model:* Intel Ethernet Connection I217-LM (Clarkville)
Security Security chip vPro *(optional)* Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology *Optional:* Fingerprint reader on the palm rest, 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 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

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