

# ThinkPad L540 20AV (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Widescreen display	Chipset	Graphics	Camera	Storage	M.2 Card WLAN	M.2 Card WWAN/SSD	SIM card	Finger print reader	Smart Card Reader	Battery cells	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20AV0024US	i3-4000M	4GBx1	15.6" HD	HM86	HD 4600	720p	500G 7200	7260 ac	upg	None	Finger	None	6(56wh)	Win7 P64 DG Win8	1-Depot	No	09/13
20AV0025US	i5-4200M	4GBx1	15.6" HD	HM86	HD 4600	720p	500G 7200	7260 ac	upg	None	Finger	None	6(56wh)	Win7 P64 DG Win8	1-Depot	No	09/13
20AV0026US	i5-4200M	4GBx1	15.6" HD	HM86	HD 4600	720p	500G 7200	7260 ac	upg	None	None	None	6(56wh)	Win7 P64 DG Win8	1-Depot	No	09/13
20AV002VUS	i5-4200M	4GBx1	15.6" HD	HM86	HD 4600	720p	500G 7200	TP 11b/g/n	upg	None	None	None	6(56wh)	Win7 P64 DG Win8	1-Depot	No	09/13
20AV000LUS	i3-4000M	4GBx1	15.6" HD	HM86	HD 4600	720p	500G 7200	7260 b/g/n	upg	None	Finger	None	6(48wh)	Win7 P64	1-Depot	No	09/13
20AV000NUS	i5-4200M	4GBx1	15.6" HD	HM86	HD 4600	720p	500G 7200	7260 b/g/n	upg	None	Finger	None	6(48wh)	Win7 P64	1-Depot	No	09/13
20AV0027US	i5-4300M	4GBx1	15.6" HD	QM87	HD 4600	720p	500G 7200	7260 ac	upg	None	None	None	6(56wh)	Win7 P64 DG Win8	1-Depot	No	11/13
20AV002FUS	i5-4300M	4GBx1	15.6" HD	QM87	HD 4600	720p	500G 7200	Intel 6235	upg	None	Finger	None	6(56wh)	Win7 P64 DG Win8	1-Depot	No	11/13
20AV000PUS	i5-4330M	4GBx1	15.6" HD	QM87	HD 4600	720p	500G 7200	Intel 6235	EM7355	Verizon	Finger	Smart	6(48wh)	Win7 P64	1-Depot	No	09/13
20AV000QUS	i5-4330M	4GBx1	15.6" HD	QM87	HD 4600	720p	128G SSD	Intel 6235	EM7355	Verizon	Finger	Smart	6(48wh)	Win7 P64	1-Depot	No	09/13
20AV000RUS	i7-4600M	4GBx1	15.6" HD	QM87	HD 4600	720p	500G 7200	Intel 6235	upg	None	Finger	Smart	9	Win7 P64	1-Depot	No	09/13
20AV000SUS	i7-4600M	8GBx1	15.6" HD	QM87	HD 4600	720p	256G SSD OPAL	Intel 6235	upg	None	Finger	Smart	9	Win7 P64	1-Depot	No	09/13
20AV0028US	i5-4200M	4GBx1	15.6" FHD	HM86	HD 4600	720p	500G 7200	7260 ac	upg	None	Finger	None	6(56wh)	Win7 P64 DG Win8	3-Depot	No	09/13
20AV0029US	i5-4200M	4GBx1	15.6" FHD	HM86	HD 4600	720p	500G 7200	7260 ac	upg	None	Finger	None	9	Win7 P64 DG Win8	3-Depot	No	09/13
20AV002AUS	i5-4200M	4GBx1	15.6" FHD	HM86	HD 4600	720p	180G SSD OPAL	7260 ac	upg	None	Finger	None	6(56wh)	Win7 P64 DG Win8	3-Depot	No	10/13
20AV002BUS	i5-4200M	4GBx1	15.6" FHD	HM86	HD 4600	720p	256G SSD OPAL	7260 ac	upg	None	Finger	None	6(56wh)	Win7 P64 DG Win8	3-Depot	No	09/13
20AV002GUS	i5-4300M	4GBx1	15.6" HD	QM87	HD 4600	720p	500G 7200	7260 ac	upg	None	Finger	None	6(56wh)	Win7 P64 DG Win8	3-Depot	No	11/13
20AV002HUS	i5-4300M	4GBx1	15.6" HD	QM87	HD 4600	720p	128G SSD	7260 ac	upg	None	Finger	None	6(56wh)	Win7 P64 DG Win8	3-Depot	No	11/13
20AV002JUS	i5-4300M	4GBx1	15.6" HD	QM87	HD 4600	720p	500G 7200	7260 ac	upg	None	Finger	None	9	Win7 P64 DG Win8	3-Depot	No	11/13
20AV002KUS	i5-4300M	4GBx1	15.6" HD	QM87	HD 4600	720p	180G SSD OPAL	Intel 6235	upg	None	Finger	None	9	Win7 P64 DG Win8	3-Depot	No	10/13
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20AV002MUS	i5-4300M	4GBx1	15.6" FHD	QM87	HD 4600	720p	256G SSD OPAL	7260 ac	upg	None	Finger	None	6(56wh)	Win7 P64 DG Win8	3-Depot	No	11/13
20AV002NUS	i7-4600M	4GBx1	15.6" FHD	QM87	HD 4600	720p	500G 7200	7260 ac	upg	None	Finger	None	9	Win7 P64 DG Win8	3-Depot	No	11/13

• For detailed platform specifications, please see [ThinkPad L540 Platform Specifications sheet](#)

Processor	Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor			Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack														
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets			Chipset	<b>Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset</b>														
Optical SATA disk	DVD burner, 9.5mm high, fixed, not removable, tray-in <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS			ExpressCard	<i>HM86 model:</i> One slot (ExpressCard/34, ExpressCard/54)														
M.2 SSD	<i>Some:</i> M.2 Solid State Drive (SSD), via M.2 Card slot, exclusive with WWAN card			Smart Card Read	<i>Optional:</i> Smart Card reader														
Widescreen display	<i>Some:</i> <b>15.6"</b> (396mm) <b>HD (1366x768)</b> , 220 nits, 500:1 contrast ratio <i>Some:</i> <b>15.6"</b> (396mm) <b>FHD (1920x1080)</b> , 300 nits, 500:1 contrast ratio			Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)														
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus			Ports	One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, ethernet (RJ-45), Dock connector														
Graphics	Intel HD Graphics 4600 in processor			WLAN <sup>4</sup>	<i>TP 11b/g/n:</i> ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 Card <i>7260 b/g/n:</i> Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 Card <i>7260 a/b/g/n:</i> Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 Card <i>7260 ac:</i> Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 Card														
Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch			WWAN (optional)	<i>upg:</i> Wireless WAN upgradable <i>EM7355:</i> Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS														
ThinkLight™	None			SIM card (optional)	<i>AT&amp;T / Verizon:</i> AT&T® / Verizon® LTE (4G), contract required with service provider <i>select:</i> User selectable, contract required with service provider														
Dimensions <sup>3</sup>	<i>HD (WxDxH):</i> 14.84" x 9.72" x 1.13-1.34"; 377mm x 247mm x 28.8-34.05mm <i>FHD (WxDxH):</i> 14.84" x 9.72" x 1.22-1.43"; 377mm x 247mm x 31.0-36.25mm			Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter														
Weight <sup>2</sup>	<table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>HD</td> <td>5.54lb / 2.52kg</td> <td>5.60lb / 2.54kg</td> <td>5.95lb / 2.70kg</td> </tr> <tr> <td>FHD</td> <td>5.68lb / 2.58kg</td> <td>5.73lb / 2.60kg</td> <td>6.08lb / 2.76kg</td> </tr> </tbody> </table>			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	Ethernet	<i>HM86 model:</i> Intel Ethernet Connection I217-V (Clarkville) <i>QM87 model:</i> Intel Ethernet Connection I217-LM (Clarkville)		
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			Security Security chip	Power-on password, hard disk password, supervisor password, security keyhole														
Battery - type	Li-Ion 6-cell (48Wh or 56Wh) or 9-cell (99.9Wh), HW Authentication			vPro & iAMT	Trusted Platform Module, TCG 1.2-compliant vPro and Intel Active Management Technology (iAMT) support on selected models														
Battery - life <sup>10</sup>	<table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>Win7 (MobileMark® 2007)</td> <td>9 hr</td> <td>11 hr</td> <td>19 hr</td> </tr> <tr> <td>Win8 (MobileMark 2012)</td> <td>6 hr</td> <td>7 hr</td> <td>12 hr</td> </tr> </tbody> </table>			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	Fingerprint reader	<i>Optional:</i> Fingerprint reader on the palm rest, swipe sensor		
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			Preload	<i>Win7 P64 DG Win8 / 8.1:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit <i>Win8 / 8.1 64:</i> Windows 8 / 8.1 64-bit <i>Win8 / 8.1 P64:</i> Windows 8 / 8.1 Pro 64-bit														
Limited warranty <sup>12</sup> <b>1-year</b> - depot / <b>3-years</b> (1-yr battery) - depot / <b>3-years</b> (1-year battery) <b>onsite</b>																			

See footnotes for more detailed information