

# ThinkPad T470 Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i5 / i7 Processor ( <i>i7-6500U is NOT available in EMEA</i> )								Dimensions Weight	<i>WxDxH:</i> 13.25" x 9.15" x 0.79"; 336.6mm x 232.5mm x 19.95mm																											
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics		<i>Models</i>	<i>3-cell or 3 + 3-cell</i>		<i>6-cell or 3 + 6-cell</i>																								
	i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	DDR4-2133	Intel HD Graphics 520	<i>Magnesium</i>	3.49 lb / 1.58 kg		3.92 lb / 1.78 kg																									
	i5-6300U			2.4 GHz	3.0 GHz	3MB			<i>PPS</i>	3.63 lb / 1.65 kg		4.35 lb / 1.85 kg																									
	i7-6500U			2.5 GHz	3.1 GHz	4MB																															
	i7-6600U			2.6 GHz	3.4 GHz	4MB																															
	or 7th Generation Intel Core i3 / i5 / i7 Processor								Case color	Black																											
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Case material	<i>Display cover:</i> Magnesium Hybrid or PPS; <i>Bottom:</i> Glass-Fiber Reinforced Plastic																											
	i3-7100U	2	4	2.4 GHz	-	3MB	DDR4-2133	Intel HD Graphics 620	Smart card reader	<i>Optional:</i> Smart card reader																											
	i5-7200U			2.5 GHz	3.1 GHz	3MB			Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC), supports SD 3.0, UHS-I																											
	i5-7300U			2.6 GHz	3.5 GHz	3MB			Ports	Three USB 3.1 Gen 1 (USB 3.0, one Always On), USB 3.1 Type-C Gen 2 / Thunderbolt 3, HDMI 1.4b, Ethernet (RJ-45), Dock connector																											
	i7-7500U			2.7 GHz	3.5 GHz	4MB			WiGig dock ( <i>opt</i> )	ThinkPad WiGig dock																											
	i7-7600U			2.8 GHz	3.9 GHz	4MB			Monitor cable	<i>Optional:</i> Lenovo USB-C to VGA Adapter																											
Graphics	Intel HD Graphics 520 or 620 in processor only, or Intel HD Graphics 620 in processor and NVIDIA GeForce® 940MX, 2GB 2.5GHz GDDR5 memory (discrete models are NOT available in EMEA); supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@24Hz (HDMI)								Camera ( <i>optional</i> )	<i>720p:</i> HD720p resolution, fixed focus <i>IR &amp; 720p:</i> IR camera and HD720p camera (mutually exclusive with WiGig)																											
Chipset	Intel SoC (System on Chip) platform								Audio support	HD Audio, Realtek ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack																											
Memory	32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets * System clocks down for processors with lower memory controller								Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight UltraNav™ TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad																											
Display	<i>Some:</i> 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle								Security	Power-on password, hard disk password, supervisor password, security keyhole Discrete TPM 2.0, TCG Certified																											
Multi-touch ( <i>opt</i> )	On-cell touch, supports 10-finger gesture (FHD IPS panel with PPS cover only)								Security chip	Intel vPro Technology																											
Storage	<i>System has one HDD slot or one M.2 2280 slot exclusively for storage</i> <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high (e.g. xxxGB SSD) <i>Some:</i> M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s <i>Some:</i> 128GB M.2 SSD / SATA 6.0Gb/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN and WiGig								Fingerprint reader	<i>Optional:</i> Touch style match on chip fingerprint reader on the keyboard bezel																											
Optical	None								NFC ( <i>optional</i> )	Near Field Communication																											
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville)								Internal battery	<i>Optional:</i> Integrated Li-Polymer 3-cell (24Wh)																											
WLAN	<i>One of the following, configurable by model (WiGig can coexist with WWAN):</i> • Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card • Intel Dual Band Wireless-AC 8260, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card • Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card • Intel Tri-Band Wireless-AC 18265, WiGig 802.11ad + Wi-Fi 2x2 802.11ac + BT4.1, M.2 card								External battery	Li-Polymer 3-cell (24Wh) or Li-Ion 6-cell (48Wh or 72Wh)																											
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter * <i>Intel 8265ac / 18265ac card support BT4.2 but is limited to BT4.1 by Windows OS</i>								Max battery life ( <i>MobileMark® 2014</i> )	<table border="1"> <thead> <tr> <th><i>Models</i></th> <th><i>3-cell</i></th> <th><i>3 + 3-cell</i></th> <th><i>6-cell 48Wh</i></th> <th><i>6-cell 72Wh</i></th> <th><i>3 + 6-cell 48Wh</i></th> <th><i>3 + 6-cell 72Wh</i></th> </tr> </thead> <tbody> <tr> <td><i>Integrated</i></td> <td>6.9 hr</td> <td>13.9 hr</td> <td>13.9 hr</td> <td>20.9 hr</td> <td>20.9 hr</td> <td>27.1 hr</td> </tr> <tr> <td><i>Discrete</i></td> <td>6.9 hr</td> <td>13.9 hr</td> <td>14.3 hr</td> <td>21.6 hr</td> <td>21.2 hr</td> <td>28.6 hr</td> </tr> </tbody> </table>							<i>Models</i>	<i>3-cell</i>	<i>3 + 3-cell</i>	<i>6-cell 48Wh</i>	<i>6-cell 72Wh</i>	<i>3 + 6-cell 48Wh</i>	<i>3 + 6-cell 72Wh</i>	<i>Integrated</i>	6.9 hr	13.9 hr	13.9 hr	20.9 hr	20.9 hr	27.1 hr	<i>Discrete</i>	6.9 hr	13.9 hr	14.3 hr	21.6 hr	21.2 hr	28.6 hr
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WWAN ( <i>optional</i> )	<i>One of the following, configurable by model (WWAN can coexist with WiGig):</i> • Wireless WAN upgradable • Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455), M.2 card • Integrated Mobile Broadband 4G LTE, Intel XMM™ 7160 (Fibocom L831-EAU), M.2 card (EMEA only)								AC adapter	45W or 65W slim tip AC adapter, 45W or 65W USB Type-C AC adapter																											
SIM card ( <i>opt</i> )	Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card								Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo PowerEngage • ThinkVantage Product Recovery • ThinkVantage System Update • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial) <i>Some:</i> Windows 10 Home 64 <i>Some:</i> Windows 10 Pro 64 • Lenovo Companion • Lenovo Setting • Microsoft Office preloaded; purchase a product key to activate																											