

# ThinkPad T470 Platform Specifications

Product Specifications Reference (PSREF)

<b>Processor</b>	<p>6th Generation Intel® Core™ i5 / i7 Processor (<i>i7-6500U is not available in EMEA</i>)</p> <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>i5-6200U</td> <td rowspan="4">2</td> <td rowspan="4">4</td> <td>2.3 GHz</td> <td>2.8 GHz</td> <td>3MB</td> <td rowspan="4">DDR4-2133</td> <td rowspan="4">Intel HD Graphics 520</td> </tr> <tr> <td>i5-6300U</td> <td>2.4 GHz</td> <td>3.0 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-6500U</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-6600U</td> <td>2.6 GHz</td> <td>3.4 GHz</td> <td>4MB</td> </tr> </tbody> </table> <p>or 7th Generation Intel Core i3 / i5 / i7 Processor</p> <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>i3-7100U</td> <td rowspan="5">2</td> <td rowspan="5">4</td> <td>2.4 GHz</td> <td>-</td> <td>3MB</td> <td rowspan="5">DDR4-2133</td> <td rowspan="5">Intel HD Graphics 620</td> </tr> <tr> <td>i5-7200U</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-7300U</td> <td>2.6 GHz</td> <td>3.5 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-7500U</td> <td>2.7 GHz</td> <td>3.5 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-7600U</td> <td>2.8 GHz</td> <td>3.9 GHz</td> <td>4MB</td> </tr> </tbody> </table>	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	DDR4-2133	Intel HD Graphics 520	i5-6300U	2.4 GHz	3.0 GHz	3MB	i7-6500U	2.5 GHz	3.1 GHz	4MB	i7-6600U	2.6 GHz	3.4 GHz	4MB	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	i3-7100U	2	4	2.4 GHz	-	3MB	DDR4-2133	Intel HD Graphics 620	i5-7200U	2.5 GHz	3.1 GHz	3MB	i5-7300U	2.6 GHz	3.5 GHz	3MB	i7-7500U	2.7 GHz	3.5 GHz	4MB	i7-7600U	2.8 GHz	3.9 GHz	4MB	<b>Dimensions</b> <b>Weight</b> <table border="1"> <tr> <td><i>WxDxH:</i></td> <td colspan="2">13.25" x 9.15" x 0.79"; 336.6mm x 232.5mm x 19.95mm</td> </tr> <tr> <td><i>Models</i></td> <td>3-cell or 3 + 3-cell</td> <td>6-cell or 3 + 6-cell</td> </tr> <tr> <td><i>Magnesium</i></td> <td>3.49 lb / 1.58 kg</td> <td>3.92 lb / 1.78 kg</td> </tr> <tr> <td><i>PPS</i></td> <td>3.63 lb / 1.65 kg</td> <td>4.35 lb / 1.85 kg</td> </tr> </table> <b>Case color</b> <b>Case material</b> <p>Black  <i>Display cover:</i> Magnesium Hybrid or PPS;  <i>Bottom:</i> Glass-Fiber Reinforced Plastic</p>	<i>WxDxH:</i>	13.25" x 9.15" x 0.79"; 336.6mm x 232.5mm x 19.95mm		<i>Models</i>	3-cell or 3 + 3-cell	6-cell or 3 + 6-cell	<i>Magnesium</i>	3.49 lb / 1.58 kg	3.92 lb / 1.78 kg	<i>PPS</i>	3.63 lb / 1.65 kg	4.35 lb / 1.85 kg
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<b>Graphics</b>	<p>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)</p>	<b>Smart card reader</b> <b>Media reader</b> <b>Ports</b> <b>WiGig dock (opt)</b> <b>Monitor cable</b> <b>Camera (optional)</b> <b>Audio support</b> <b>Keyboard</b> <b>UltraNav™</b> <b>Security</b> <b>Security chip</b> <b>vPro (optional)</b> <b>Fingerprint reader</b> <b>NFC (optional)</b>																																																																								
<b>Chipset</b> <b>Memory</b>	<p>Intel SoC (System on Chip) platform          32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets          * System clocks down for processors with lower memory controller</p>	<b>720p:</b> HD720p resolution, fixed focus <i>IR &amp; 720p:</i> IR camera and HD720p camera (mutually exclusive with WiGig) HD Audio, Realtek ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad Power-on password, hard disk password, supervisor password, security keyhole Discrete TPM 2.0, TCG Certified Intel vPro Technology <i>Optional:</i> Touch style match on chip fingerprint reader on the keyboard bezel Near Field Communication																																																																								
<b>Display</b> <b>Multi-touch (opt)</b>	<p><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</p> <p>On-cell touch, supports 10-finger gesture (FHD only)</p>	<b>Internal battery</b> <b>External battery</b> <b>Max battery life (MobileMark® 2014)</b> <table border="1"> <thead> <tr> <th><i>Models</i></th> <th>3-cell</th> <th>3 + 3-cell</th> <th>6-cell 48Wh</th> <th>6-cell 72Wh</th> <th>3 + 6-cell 48Wh</th> <th>3 + 6-cell 72Wh</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>	3-cell	3 + 3-cell	6-cell 48Wh	6-cell 72Wh	3 + 6-cell 48Wh	3 + 6-cell 72Wh	<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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<b>Storage</b> <b>Optical</b>	<p><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</p> <p>None</p>	<b>AC adapter</b> <b>Preload</b> <p>45W or 65W AC adapter (slim tip), 45W or 65W USB Type-C AC adapter</p> <p>Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64  <i>Some:</i> Windows 10 Home 64  <i>Some:</i> Windows 10 Pro 64</p> <ul style="list-style-type: none"> <li>• Lenovo Solution Center</li> <li>• Lenovo PowerEngage</li> <li>• ThinkVantage Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• Adobe® Reader®</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• McAfee® LiveSafe™ (30-day trial)</li> </ul>																																																																								
<b>Ethernet</b> <b>WLAN</b>	<p><i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville)  <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville)</p> <p><i>One of the following, configurable by model (WiGig can coexist with WWAN):</i></p> <ul style="list-style-type: none"> <li>• Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card</li> <li>• Intel Dual Band Wireless-AC 8260, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card</li> <li>• Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card</li> <li>• Intel Tri-Band Wireless-AC 18265, WiGig 802.11ad + Wi-Fi 2x2 802.11ac + BT4.1, M.2 card</li> </ul>	<b>Limited warranty</b> <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> <li>• 1-year depot repair service</li> <li>• 3-year/1-yr battery depot repair service</li> <li>• 3-year/1-yr battery limited onsite service</li> </ul>																																																																								
<b>Bluetooth™</b>	<p>Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter          * Intel 8265ac / 18265ac card support BT4.2 but is limited to BT4.1 by Windows OS</p>	<b>Mil-Spec test</b> <b>Environment</b> <p>MIL-STD-810G military certification          EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant</p>																																																																								
<b>WWAN (optional)</b> <b>SIM card (opt)</b>	<p><i>One of the following, configurable by model (WWAN can coexist with WiGig):</i></p> <ul style="list-style-type: none"> <li>• Wireless WAN upgradable</li> <li>• Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455), M.2 card</li> <li>• Integrated Mobile Broadband 4G LTE, Intel XMM™ 7160 (Fibocom L831-EAU), M.2 card (EMEA only)</li> </ul> <p>Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card</p>																																																																									