

# ThinkPad T470 Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i5 / i7 Processor or								WWAN (optional) <i>One of the following, configurable by model (WWAN can coexist with WiGig):</i> <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> SIM card (opt) Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card					
	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								
	7th Generation Intel Core i3 / i5 / i7 Processor													
	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								
	* i7-6500U is NOT available in EMEA													
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)													
Chipset	Intel SoC (System on Chip) platform													
Memory	32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets * System clocks down for processors with lower memory controller													
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													
Multi-touch (opt)	On-cell touch, supports 10-finger gesture (FHD IPS panel with PPS cover only)													
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													
Optical	None													
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville)													
WLAN	<i>One of the following, configurable by model (WiGig can coexist with WWAN):</i> <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>													
Bluetooth™	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													
Dimensions	WxDxH: 13.25" x 9.15" x 0.79"; 336.6mm x 232.5mm x 19.95mm													
Weight	<i>Models</i>		3-cell or 3 + 3-cell		6-cell or 3 + 6-cell									
	Magnesium		3.49 lb / 1.58 kg		3.92 lb / 1.78 kg									
	PPS		3.63 lb / 1.65 kg		4.35 lb / 1.85 kg									
Case color	Black													
Case material	<i>Display cover:</i> Magnesium Hybrid or PPS;													
	<i>Bottom:</i> Glass-Fiber Reinforced Plastic													
Smart card reader	Optional: Smart card reader													
Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC), supports SD 3.0, UHS-I													
Ports	Three USB 3.1 Gen 1 (USB 3.0, one Always On), USB 3.1 Type-C Gen 2 / Thunderbolt 3 (w/ the function of Power Delivery and DP), HDMI 1.4b, Ethernet (RJ-45), Dock connector * Depending on many factors, actual data transfer speed may be lower than theoretical speed													
WiGig dock (opt)	ThinkPad WiGig dock													
Monitor cable (optional)	HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter													
	USB-C to VGA: Lenovo USB-C to VGA Adapter													
Camera (optional)	720p: HD720p resolution, fixed focus IR & 720p: IR camera and HD720p camera (mutually exclusive with WiGig)													
Audio support	HD Audio, Realtek ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack													
Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight													
UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad													
Security	Power-on password, hard disk password, supervisor password, security keyhole													
Security chip	Discrete TPM 1.2 or 2.0, TCG Certified													
vPro (optional)	Intel vPro Technology													
Fingerprint reader	Optional: Touch style match on chip fingerprint reader on the keyboard bezel													
NFC (optional)	Near Field Communication													
Internal battery	Optional: Integrated Li-Polymer 3-cell (24Wh)													
External battery	Li-Polymer 3-cell (24Wh) or Li-ion 6-cell (48Wh or 72Wh)													
Max battery life (MobileMark® 2014)	<i>Models</i>		3-cell		3 + 3-cell		6-cell 48Wh		6-cell 72Wh		3 + 6-cell 48Wh		3 + 6-cell 72Wh	
	Integrated		6.9 hr		13.9 hr		13.9 hr		20.9 hr		20.9 hr		27.1 hr	
	Discrete		6.9 hr		13.9 hr		14.3 hr		21.6 hr		21.2 hr		28.6 hr	
	* Battery life varies significantly with settings, usage, & other factors													
AC adapter	45W or 65W slim tip AC adapter, 45W or 65W USB Type-C AC adapter													
Operating system	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> <li>Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64</li> <li>Windows 10 Home 64</li> <li>Windows 10 Pro 64</li> </ul>													
Limited warranty	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> <li>1-year depot repair service</li> <li>1-year depot with 2-year system board repair service</li> <li>1-year limited onsite service</li> <li>3-year/1-yr battery depot repair service</li> <li>3-year/1-yr battery limited onsite service</li> </ul>													
Mil-Spec test	MIL-STD-810G military testing													
Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant													

Note: The specifications above may not be available in all regions.