

# ThinkPad X270 Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i5 / i7 Processor							WWAN (optional) <i>One of the following, configurable by model (mutually exclusive with WiGig):</i>				
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	<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>			
	i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	DDR4-2133	Intel HD Graphics 520	SIM card (opt) Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card			
	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						
	or 7th Generation Intel Core i3 / i5 / i7 Processor							Dimensions <i>WxDxH:</i> 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm				
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Weight			
	i3-7100U	2	4	2.4 GHz	-	3MB	DDR4-2133	Intel HD Graphics 620	<i>Models</i>			
	i5-7200U			2.5 GHz	3.1 GHz	3MB			<i>No + 3-cell</i>			
	i5-7300U			2.6 GHz	3.5 GHz	3MB			<i>3-cell + 3-cell</i>			
	i7-7500U			2.7 GHz	3.5 GHz	4MB			<i>3 + 6-cell</i>			
	i7-7600U			2.8 GHz	3.9 GHz	4MB			<i>Weight</i> 2.79 lb / 1.27 kg 2.98 lb / 1.36 kg 3.33 lb / 1.52 kg			
Graphics	Intel HD Graphics 520 or 620 in processor; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2160@60Hz (USB Type-C); 4096x2160@24Hz (HDMI)							Case color Black Case material Glass-Fiber Reinforced Plastic				
Chipset	Intel SoC (System on Chip) platform							Smart card reader <i>Optional:</i> Smart card reader				
Memory	16GB max / 2400MHz DDR4, one DDR4 SO-DIMM socket * System clocks down for processors with lower memory controller							Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC)				
Display	<i>Some:</i> 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 800:1 contrast ratio, 170° viewing angle <i>Some:</i> 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle							Ports Two USB 3.1 Gen 1 / USB 3.0 (one Always On), USB 3.1 Type-C Gen 1 / Power Delivery 2.0, HDMI 1.4b, Ethernet (RJ-45), Dock connector				
Multi-touch	None							WiGig dock (opt) ThinkPad WiGig dock, mutually exclusive with WWAN				
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 or 9.5mm 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 WiGig <i>Some:</i> 16GB Intel Optane™ memory, PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, in WWAN slot as storage cache for HDD, mutually exclusive with WiGig							Monitor cable (optional) <i>HDMI to VGA:</i> Lenovo HDMI to VGA Monitor Adapter <i>USB-C to VGA:</i> Lenovo USB-C to VGA Adapter <i>USB-C to DP:</i> Lenovo USB-C to DisplayPort Adapter				
Optical	None							Camera (optional) HD720p resolution, fixed focus				
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville)							Audio support HD Audio, Realtek ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack				
WLAN	<i>One of the following, configurable by model (WiGig is mutually exclusive 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							Keyboard 6-row, spill-resistant, multimedia Fn keys, optional LED backlight UltraNav™ TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad				
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							Security Power-on password, hard disk password, supervisor password, security keyhole Security chip <i>Win7 model:</i> discrete TPM 1.2, TCG Certified <i>Win10 model:</i> discrete TPM 2.0, TCG Certified				
								vPro (optional) Intel vPro Technology				
								Fingerprint reader <i>Optional:</i> Touch style match on chip fingerprint reader on the palm rest				
								NFC (optional) Near Field Communication				
								Internal battery <i>Optional:</i> Integrated Li-Ion or Li-Polymer 3-cell (23Wh)				
								External battery Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)				
								Max battery life <i>MobileMark® 2014:</i> 13.04 hr (3-cell + 3-cell)				
								AC adapter 45W AC adapter (slim tip) or 45W USB Type-C AC adapter				
								Preload 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 • Lenovo Companion • 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)				
								Limited warranty <i>One of the following, configurable by model:</i> • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service				
								Mil-Spec test MIL-STD-810G military certification				
								Environment EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant				