

ThinkPad X270 Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor							WWAN (optional) <i>One of the following, configurable by model (mutually exclusive with WiGig):</i> <ul style="list-style-type: none"> Wireless WAN upgradable Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455) Integrated Mobile Broadband 4G LTE, Intel XMM™ 7160 (Fibocom L831-EAU) (EMEA only) 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									
	i3-6006U	2	4	2.0 GHz	-	3MB	DDR4-2133	Intel HD Graphics 520										
	i3-6100U			2.3 GHz	-	3MB												
	i5-6200U			2.3 GHz	2.8 GHz	3MB												
	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																	
	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												
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)																	
Chipset	Intel SoC (System on Chip) platform																	
Memory	16GB max / 2400MHz DDR4, one DDR4 SO-DIMM socket * System clocks down for processors with lower memory controller																	
Display	<i>Some:</i> 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 220 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																	
Multi-touch (opt)	On-cell touch, supports 10-finger gesture (FHD 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 is mutually exclusive with WWAN):</i> <ul style="list-style-type: none"> Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + BT4.1 Intel Dual Band Wireless-AC 8260, Wi-Fi 2x2 802.11ac + BT4.1 Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1 Intel Tri-Band Wireless-AC 18265, WiGig 802.11ad + Wi-Fi 2x2 802.11ac + BT4.1 (US only) 																	
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 <i>WxDxH:</i> 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm Weight <table border="1"> <tr> <th>Models</th> <th>No + 3-cell</th> <th>3-cell + 3-cell</th> <th>3 + 6-cell</th> </tr> <tr> <td></td> <td>2.79 lb / 1.27 kg</td> <td>2.98 lb / 1.36 kg</td> <td>3.33 lb / 1.52 kg</td> </tr> </table>	Models	No + 3-cell	3-cell + 3-cell	3 + 6-cell		2.79 lb / 1.27 kg	2.98 lb / 1.36 kg	3.33 lb / 1.52 kg		
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	2.79 lb / 1.27 kg	2.98 lb / 1.36 kg	3.33 lb / 1.52 kg															
								Case color Black Case material <i>Display cover:</i> Glass-Fiber Reinforced Plastic; <i>Bottom:</i> Glass-Fiber Reinforced Plastic										
								Smart card reader <i>Optional:</i> Smart card reader Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Ports Two USB 3.1 Gen 1 (USB 3.0, one Always On), USB 3.1 Type-C Gen 1, HDMI 1.4b, Ethernet (RJ-45), Dock connector WiGig dock (opt) ThinkPad WiGig dock, mutually exclusive with WWAN (US only) 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										
								Camera (optional) HD720p resolution, fixed focus Audio support HD Audio, Realtek ALC3268 codec / stereo speakers, 1.5W 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 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 (MobileMark® 2014) <table border="1"> <tr> <th>Models</th> <th>No + 3-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> <tr> <td><i>Max battery life</i></td> <td>6.52 hr</td> <td>13.04 hr</td> <td>20.1 hr</td> <td>26.9 hr</td> </tr> </table>	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	<i>Max battery life</i>	6.52 hr	13.04 hr	20.1 hr	26.9 hr
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<i>Max battery life</i>	6.52 hr	13.04 hr	20.1 hr	26.9 hr														
								AC adapter 45W slim tip AC adapter or 45W USB Type-C AC adapter										
								Preload Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <ul style="list-style-type: none"> 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 Some: Windows 10 Pro 64 <ul style="list-style-type: none"> Lenovo Companion Lenovo Setting Microsoft Office preloaded; purchase a product key to activate 										
								Limited warranty <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 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										