ThinkPad X270 Platform Specifications

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor

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	*Some:* 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 800:1 contrast ratio, 170° viewing angle *Some:* 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	*System has one HDD slot or one M.2 2280 slot exclusively for storage* *Some:* HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high (e.g. xxxGB SSD) *Some:* M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s *Some:* 128GB M.2 SSD / SATA 6.0Gb/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN and WiGig
Optical	None
Ethernet	*Non-vPro model:* Intel Ethernet Connection I219-V (Jacksonville) *vPro model:* Intel Ethernet Connection I219-LM (Jacksonville)
WLAN	*One of the following, configurable by model (WiGig is mutually exclusive with WWAN):* • 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*

WWAN *(optional)*	*One of the following, configurable by model (mutually exclusive with WiGig):* • 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
Dimensions	*WxDxH:* 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm

Weight Models	No + 3-cell	3-cell + 3-cell	3 + 6-cell
Weight	2.79 lb / 1.27 kg	2.98 lb / 1.36 kg	3.33 lb / 1.52 kg

Case color	Black
Case material	Glass-Fiber Reinforced Plastic
Smart card reader	*Optional:* Smart card reader
Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Two USB 3.1 Type-A 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)*	*HDMI to VGA:* Lenovo HDMI to VGA Monitor Adapter *USB-C to VGA:* Lenovo USB-C to VGA Adapter *USB-C to DP:* 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	*Optional:* Touch style match on chip fingerprint reader on the palm rest
NFC *(optional)*	Near Field Communication
Internal battery	*Optional:* 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) Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh
Max battery life	6.52 hr	13.04 hr	20.1 hr	26.9 hr

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 • 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) *Some:* Windows 10 Home 64 *Some:* Windows 10 Pro 64 • Lenovo Companion • Lenovo Setting • Microsoft Office preloaded; purchase a product key to activate
Limited warranty	*One of the following, configurable by model:* • 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