# 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 | | | 2.0 GHz | - | 3MB | | |
| i3-6100U | | | 2.3 GHz | - | 3MB | | |
| 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 | | |

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 GHz | - | 3MB | | |
| i5-7200U | | | 2.5 GHz | 3.1 GHz | 3MB | | |
| i5-7300U | 2 | 4 | 2.6 GHz | 3.5 GHz | 3MB | DDR4-2133 | Intel HD Graphics 620 |
| 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** — None

**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:* 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
• 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