## ThinkPad X280 Platform Specifications

7th Generation Intel® Core™ i3 / i5 Processor

Processor

	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	
	i3-7020U	2	4	2.3 GHz	-	змв	DDR4-2133	Intel HD Graphics 620	
	i3-7130U			2.7 GHz	-	3MB			
	i5-7200U			2.5 GHz	3.1 GHz	змв			
	i5-7300U			2.6 GHz	3.5 GHz	3MB			
	or 8th Generation Intel Core i3 / i5 / i7 Processor								
	Processor	# of	# of	Base	Max Turbo	Cache	Memory Types	Processor	
	Number	Cores	Threads	Frequency	Frequency	Cache		Graphics	
	i3-8130U	2	4	2.2 GHz	3.4 GHz	4MB	]		
	i5-8250U		8	1.6 GHz	3.4 GHz	6MB	DDR4-2400	Intel UHD Graphics 620	
	i5-8350U	4		1.7 GHz	3.6 GHz	6MB			
	i7-8550U			1.8 GHz	4.0 GHz	8MB			
	i7-8650U			1.9 GHz	4.2 GHz	8MB			
Graphics	Intel HD Graphics 620 or Intel UHD Graphics 620 in processor; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)								
Chipset Memory	4GB, 8GB * 4GB mem	Intel SoC (System on Chip) platform 4GB, 8GB, or 16GB / 2400MHz DDR4 / soldered to systemboard, no sockets * 4GB memory is NOT available in US and EMEA * System clocks down for processors with lower memory controller							
Display	22 Some: 12	Some: 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio  Some: 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, WVA, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle							

\* i3-7130U is NOT available in US and EMEA: i5-7200U is NOT available in US

Multi-touch (opt) On-cell touch, supports 10-finger gesture (FHD only) \* FHD non-touch model is NOT available in US One of the following, configurable by model:

Storage

 M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2) M.2 SSD / PCIe NVMe. PCIe 3.0 x 4. 32Gb/s (é.a. xxxGB SSD M.2 PCIe NVMe) Optical

Ethernet

WLAN (optional) Bluetooth™ (opt)

Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via optional ThinkPad Ethernet Extension Adapter Gen 2

WWAN (optional) Wireless WAN upgradable (special bid only) Integrated Mobile Broadband 4G LTE, Integrated Mobile Broadband 4G LTE-A. Intel XMM™ 7360 (Fibocom L850-GL). M.2 card

Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Intel XMM™ 7262 (Fibocom L830-EB), M.2 card (EMEA only) \* For non-WWAN model, it means the model is NOT WWAN upgradable SIM card (opt) Nano-SIM card slot, in the combo slot with microSD card reader, optional Verizon LTE (US) SIM card

WxDxH: 12.11" x 8.26" x 0.69-0.70"; 307.7mm x 209.8mm x 17.4-17.8mm **Dimensions** Weight FHD non-touch model: 2.49 lb / 1.13 kg; HD non-touch model: 2.78 lb / 1.26 kg; FHD multi-touch model: 2.79 lb / 1.27 kg Case color Black Case material Display cover: Carbon Fiber (FHD non-touch model) or Glass Fiber (HD & FHD multi-touch model); Bottom: Magnesium/Aluminum Smart card reader Optional: Smart card reader Media reader MicroSD card reader, in the combo slot with nano-SIM card Ports Two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort), one USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of PD and DP). HDMI 1.4b, Ethernet extension connector, combo slot of nano-SIM card (WWAN models) and microSD card reader. headphone / microphone combo jack, optional smart card reader, side docking connector, security keyhole \* Depending on many factors, actual data transfer speed may be lower than theoretical speed Monitor cable HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter (optional) USB-C to VGA: Lenovo USB-C to VGA Adapter USB-C to DP: Lenovo USB-C to DisplayPort Adapter Bundled Accy Optional: ThinkPad Ethernet Extension Adapter Gen 2 Camera (optional) One of the following, configurable by model: HD720p camera with ThinkShutter camera privacy, fixed focus IR camera and HD720p camera, fixed focus Audio support HD Audio, Realtek® ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone (for special bid model, microphone is optional), headphone / microphone combo 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 (may be disabled in some region) vPro (optional) Intel vPro Technology Fingerprint reader Optional: Touch style match on chip fingerprint reader on the palm rest, anti-spoofing technology Near Field Communication NFC (optional) Battery Integrated Li-ion 48Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter Max battery life MobileMark® 2014: 16.6 hr \* Battery life varies significantly with hardware configurations, settings, usage, & other factors AC adapter 45W or 65W USB-C AC adapter Operating system Optional: Windows® 10 Home 64 or Windows 10 Pro 64 Limited warranty One of the following, configurable by model: 1-year depot repair service 1-year depot with 2-year system board repair service 1-year/3-yr battery depot repair service 1-year + 2-year depot repair service 1-year + 2-year limited onsite service 3-year/1-yr battery depot repair service 3-year/3-yr battery depot repair service 3-year/1-yr battery limited onsite service 3-year/3-yr battery limited onsite service 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 and might change by regions.

Lenovo

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