ThinkPad X280 20KF001GPB

Product
ThinkPad X280

Region
EET

Country/Region
Poland

Machine Type
20KF

TopSeller
TopSeller

Processor
Core i7-8550U (4C / 8T, 1.8 / 4.0GHz, 8MB)

Graphics
Integrated Intel UHD Graphics 620

Chipset
Intel SoC Platform

Memory
16GB Soldered DDR4-2400

Display
12.5" FHD (1920x1080) IPS 300nits Anti-glare

Multi-touch
None

Storage
512GB SSD M.2 2280 PCIe NVMe Opal2

Optane Memory
None

Optical
None

WLAN + Bluetooth
Intel 8265 11ac, 2x2 + BT4.1

WWAN
Fibocom L830-EB

SIM Card
None

Smart Card Reader
Smart Card Reader

Monitor Cable
None

Bundled Accessories
None

Color
Black

Case Material
Carbon Fiber

Camera
720p

Keyboard
Backlit

Fingerprint Reader
Fingerprint Reader

NFC
None

TPM
Discrete TPM 2.0

Battery
Integrated 48Wh

Power Adapter
65W USB-C

System Management
None

Operating System
Windows 10 Pro 64

Bundled Software
None

Base Warranty
3-year, Depot

Upsell Service Bundles
None

End of Support
2024-03-06

Announce Date
2018-02-06

Notes:
Battery life is an estimated maximum. Actual battery life may vary based on many factors, including screen brightness, active applications, features, power management settings, battery age and conditioning, and other customer preferences.

WWW.LENOVO.COM

This publication was developed for products and services offered in the United States and E.M.E.A countries. Lenovo may not offer the products, services or features discussed in this document in other countries. Lenovo may withdraw an offering at any time. Information is subject to change without notice. Consult your local representative for information on offerings available in your area.

Lenovo reserves the right to change specifcations or other product information without notice. Lenovo is not responsible for photographic or typographical errors.

Lenovo provides this publication “as is” without warranty of any kind, either express or implied, including the implied warranties of merchantability or ftness for a particular purpose.

https://psref.lenovo.com

Visit psref website for the latest version of Product Specifcations Reference.

© Lenovo, 2019. All rights reserved.



ThinkPad X280 Platform Specifications

Processor

7th Generation Intel® Core™ i3 / i5 Processor
** i3-7130U is NOT available in US and EMEA; i5-7200U is NOT available in US*

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-7130U	2	4	2.7 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		

or 8th Generation Intel Core i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-8130U	2	4	2.2 GHz	3.4 GHz	4MB	DDR4-2400	Intel UHD Graphics 620
i5-8250U	4	8	1.6 GHz	3.4 GHz	6MB		
i5-8350U			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
Intel SoC (System on Chip) platform

Memory
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
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, 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)
** FHD non-touch model is NOT available in US*

Storage
One of the following, configurable by model:
- 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 (e.g. xxxGB SSD M.2 PCIe NVMe)

Optane™ memory
None

Optical
None

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

WLAN + Bluetooth™
Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
** Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS*

WWAN *(optional)*
One of the following, configurable by model:
- Integrated Mobile Broadband 4G LTE,
  Intel XMM™ 7262 (Fibocom L830-EB), M.2 card (EMEA only)
- Integrated Mobile Broadband 4G LTE-A,
  Intel XMM™ 7360 (Fibocom L850-GL), M.2 card

** 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

Dimensions
WxDxH: 12.11" x 8.26" x 0.69-0.70"; 307.7mm x 209.8mm x 17.4-17.8mm

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 *(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

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, 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

vPro *(optional)*
Intel vPro Technology

Fingerprint reader
Optional: Touch style match on chip fingerprint reader on the palm rest, anti-spoofing technology

NFC *(optional)*
Near Field Communication

Battery
Integrated Li-ion 48Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

Max battery life
MobileMark® 2014: 16.6 hr
** Battery life varies significantly with settings, usage, & other factors*

AC adapter
45W or 65W USB Type-C AC adapter

Preload
Windows® 10 Home 64 or Windows 10 Pro 64

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 testing

Environment
EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

Note: The specifications above may not be available in all regions.

ThinkPad X280











