

ThinkPad X1 Extreme (2nd Gen) 20QV00CNPB

Product

ThinkPad X1 Extreme (2nd Gen)

Region

EET

Country/Region

Poland

Machine Type

20QV

TopSeller

TopSeller

Processor

Intel Core i7-9750H (6C / 12T, 2.6 / 4.5GHz, 12MB)

Graphics

NVIDIA GeForce GTX 1650 Max-Q 4GB GDDR5

Chipset

Intel CM246

Memory

1x 16GB SO-DIMM DDR4-2666

Storage

512GB SSD M.2 2280 PCIe NVMe Opal2

RAID

No

Display

15.6" UHD (3840x2160) OLED 400nits AR (anti-reflection) / AS (anti-smudge), Dolby Vision HDR

Touchscreen

10-point Multi-touch

Pen

None

Media Reader

SD Card Reader

Ethernet

100/1000M via Optional Adapter

Optical

None

WLAN + Bluetooth

Intel AX200 11ax, 2x2 + BT5.0

WWAN

None

SIM Card

None

Smart Card Reader

Smart Card Reader

Monitor Cable

None

Case Material

CFRP/GFRP (Top), Aluminum Alloy (Bottom)

Bundled Accessories

ThinkPad Ethernet Extension Cable

Camera

720p + IR with ThinkShutter

Microphone

2x, 360°

Color

Black, Weave

Keyboard

Backlit, English (EU)

Fingerprint Reader

Touch Style, Match-on-Chip

NFC

None

Color Calibrator

Factory Color Calibration

TPM

Discrete TPM 2.0

Battery

Integrated 80Wh

Power Adapter

135W Slim Tip

System Management

None

Operating System

Windows 10 Pro 64, Polish / English

Bundled Software

None

Base Warranty

3-year, Depot

Bundled Service

3Y Onsite upgrade from 3Y Depot/CCI (5WS0E97271)

EAN / UPC / JAN

0194632268454

End of Support

2026-02-16

Announce Date

2019-11-12

Recommended Services

Best

5Y Premier Support Upgrade from 3Y Onsite (5WS0T36163)

Better

4Y Premier Support Upgrade from 3Y Onsite (5WS0T36146)

Good

3Y Premier Support Upgrade from 3Y Onsite (5WS0U26638)

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.

L WWW.LENOVO.COM

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 specifications 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 fitness for a particular purpose.



<https://psref.lenovo.com>

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

© Lenovo, 2020. All rights reserved.



Lenovo™

ThinkPad X1 Extreme (2nd Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor	9th Generation Intel® Core™ i5 / i7 / i9 Processor										Dimensions	WxDxH (non-touch): 14.24" x 9.67" x 0.72"; 361.8mm x 245.7mm x 18.4mm WxDxH (multi-touch): 14.24" x 9.67" x 0.74"; 361.8mm x 245.7mm x 18.7mm			
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics			Weight	Non-touch model: starting at 3.75 lb / 1.7 kg; Multi-touch model: starting at 4.0 lb / 1.81 kg			
	i5-9300H	4	8	2.4 GHz	4.1 GHz	8MB	DDR4-2666	Intel UHD Graphics 630			Case color	Black paint (FHD model) or black weave (UHD model)			
	i5-9400H	4	8	2.5 GHz	4.3 GHz	8MB					Case material	Display cover: CFRP/GFRP hybrid; Bottom: Aluminum alloy			
	i7-9750H	6	12	2.6 GHz	4.5 GHz	12MB					Smart card reader	Optional: Smart card reader			
	i7-9850H	6	12	2.6 GHz	4.6 GHz	12MB					Media reader	SD Card reader (SD, SDHC, SDXC), supports UHS-II SD card			
	i9-9880H	8	16	2.3 GHz	4.8 GHz	16MB				Ports	Two USB 3.1 Gen 1 (one Always On), two USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of Power Delivery and DisplayPort), HDMI 2.0, Ethernet extension connector, headphone / microphone combo jack, optional smart card reader, SD card reader, security keyhole, slim tip AC adapter * Power Delivery only supports power-out for charging peripherals * Depending on many factors, actual data transfer speed may be lower than theoretical speed				
Graphics	Intel UHD Graphics 630 in processor and NVIDIA® GeForce® GTX 1650 Max-Q, 4GB GDDR5 memory; supports external digital monitor via HDMI or Thunderbolt™; supports four independent displays; Max resolution: 5K@60Hz (Thunderbolt); 4K@60Hz (HDMI)										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 Optional: ThinkPad Ethernet Extension Cable			
Chipset	Mobile Intel CM246 Chipset										Bundled Accy				
Memory	64GB max / 2666MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets										Camera (optional)	One of the following, configurable by model: • HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus			
Display	Size	Resolution		Type	Surface	Brightness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Audio support	HD Audio, Synaptic® CX11880 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / optional dual 360° far-field microphone, headphone / microphone combo jack, Dolby Atmos® sound system			
	15.6"	FHD (1920x1080)		IPS	Anti-glare	300 nits	16:9	700:1	72% NTSC	170°	Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, LED backlight TrackPoint® pointing device and buttonless glass surface multi-touch touchpad			
	15.6"	FHD (1920x1080) Dolby Vision™ HDR		IPS	Anti-glare	500 nits	16:9	1200:1	72% NTSC	170°		Security Security chip	Power-on password, hard disk password, supervisor password, security keyhole Firmware TPM 2.0 integrated in chipset or discrete TPM 2.0 TCG Certified (may be disabled in some region)		
	15.6"	UHD (3840x2160) Dolby Vision HDR		IPS	Anti-glare	500 nits	16:9	1200:1	100% Adobe	170°			System Mgt (opt) Fingerprint reader	Intel vPro Technology Touch style match on chip fingerprint reader on the keyboard bezel Optional: X-Rite Pantone factory color calibration (UHD model only)	
	15.6"	UHD (3840x2160) Dolby Vision HDR, Multi-touch		OLED	Anti-reflection Anti-smudge	SDR 400nit, HDR 500nit (peak)	16:9	100000:1	100% DCI-P3	170°				Color calibration NFC	None
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture (UHD OLED only), anti-reflection (AR), anti-smudge (AS) coating										Battery				Integrated Li-Polymer 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
Pen (optional)	Lenovo Pen Pro (special bid only)										Max battery life	MobileMark® 2014: 14 hr * Battery life varies significantly with hardware configurations, settings, usage, & other factors			
Storage	Up to two M.2 SSD M.2 2280 SSD / PCIe NVMe 3.0 x 4										AC adapter	135W slim tip AC adapter			
RAID (optional)	RAID 0/1 support										Operating system	Optional: Windows® 10 Home 64 or Windows 10 Pro 64			
Optical	None										Limited warranty	• 1-year depot repair service • 1-year depot with 2-year system board repair service • 1-year limited onsite 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/1-yr battery limited onsite service			
Ethernet	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via bundled or optional ThinkPad Ethernet Extension Cable										Mil-Spec test	MIL-STD-810G military testing			
WLAN (optional)	Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.0										Environment	EPEAT™ Gold; ENERGY STAR® 7.1; TCO Certified; RoHS-compliant			
Bluetooth™ (opt)	Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter														
WWAN	None														
SIM card	None														

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

Lenovo
June 2020

Lenovo

ThinkPad X1 Extreme (2nd Gen)

Lenovo™

