

ThinkPad X1 Extreme (2nd Gen) 20QV00CNGE

Product

ThinkPad X1 Extreme (2nd Gen)

Region

WE

Country/Region

Germany

Machine Type

20QV

TopSeller

TopSeller

Processor

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

Graphics

NVIDIA GeForce GTX 1650 4GB GDDR5

Chipset

Intel CM246

Memory

1x 16GB DIMM DDR4-2666

Display

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

Multi-touch

10-point Multi-touch

Storage

512GB SSD M.2 2280 PCIe NVMe Opal2

RAID

No

Optical

None

WLAN + Bluetooth

Intel AX200 11ax, 2x2 + BT5.0

WWAN

None

SIM Card

None

Smart Card Reader

Smart Card Reader

Monitor Cable

None

Bundled Accessories

ThinkPad Ethernet Extension Cable

Color

Black, Weave

Camera

720p + IR with ThinkShutter

Keyboard

Backlit, German

Pen

None

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, German

Bundled Software

None

Base Warranty

3-year, Depot

Bundled Service

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

End of Support

2025-12-12

Announce Date

2019-11-12

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.

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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 Black paint (FHD model) or black weave (UHD model) Display cover: CFRP/GFRP hybrid; Bottom: Aluminum alloy	
	i5-9300H	4	8	2.4 GHz	4.1 GHz	8MB	DDR4-2666	Intel UHD Graphics 630			Case color		
	i5-9400H	4	8	2.5 GHz	4.3 GHz	8MB					Case material		
	i7-9750H	6	12	2.6 GHz	4.5 GHz	12MB							
	i7-9850H	6	12	2.6 GHz	4.6 GHz	12MB							
	i9-9880H	8	16	2.3 GHz	4.8 GHz	16MB					Smart card reader	Optional: Smart card reader	
Graphics	Intel UHD Graphics 630 in processor and NVIDIA® GeForce® GTX 1650, 4GB GDDR5 memory; supports external digital monitor via HDMI or Thunderbolt™; supports four independent displays; Max resolution: 5K@60Hz (Thunderbolt); 4K@60Hz (HDMI)										Media reader	SD Card reader (SD, SDHC, SDXC), supports UHS-II SD card	
Chipset	Mobile Intel CM246 Chipset										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	
Memory	64GB max / 2666MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets										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	
Display	Size	Resolution	Type	Surface	Brightness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Bundled Accy	Optional: ThinkPad Ethernet Extension Cable		
	15.6"	FHD (1920x1080)	IPS	Anti-glare	300 nits	16:9	700:1	72% NTSC	170°	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		
	15.6"	FHD (1920x1080) Dolby Vision™ HDR	IPS	Anti-glare	500 nits	16:9	1200:1	72% NTSC	170°	Audio support	HD Audio, Synaptic® CX11880 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual 360° far-field microphone, headphone / microphone combo jack, Dolby Atmos® sound system		
	15.6"	UHD (3840x2160) Dolby Vision HDR	IPS	Anti-glare	500 nits	16:9	1200:1	100% Adobe	170°	Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, LED backlight TrackPoint® pointing device and buttonless glass surface multi-touch touchpad		
	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°	Security	Power-on password, hard disk password, supervisor password, security keyhole		
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture (UHD OLED only), anti-reflection (AR), anti-smudge (AS) coating										Security chip	Discrete TPM 2.0, TCG Certified	
Pen	Supports pen accessory, please see the accessory compatibility for details										System Mgt (opt)	Intel vPro Technology	
Storage	Up to two M.2 SSD M.2 2280 SSD / PCIe NVMe 3.0 x 4										Fingerprint reader	Touch style match on chip fingerprint reader on the keyboard bezel	
RAID (optional)	RAID 0/1 support										Color calibration	Optional: X-Rite Pantone factory color calibration (UHD model only)	
Optical	None										NFC	None	
Ethernet	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro)) via bundled or optional ThinkPad Ethernet Extension Cable										Battery	Integrated Li-ion 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr)	
WLAN (optional)	Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.0										Max battery life	MobileMark® 2014: 14 hr * Battery life varies significantly with settings, usage, & other factors	
Bluetooth™	Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter										AC adapter	135W slim tip AC adapter	
WWAN	None										Operating system	Windows® 10 Home 64 or Windows 10 Pro 64	
SIM card	None										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™ Silver; ENERGY STAR® 7.1; RoHS-compliant	

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

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