

ThinkPad X1 Extreme (2nd Gen) 20QV000WBM

Product

ThinkPad X1 Extreme (2nd Gen)

Region

EET

Country/Region

Bulgaria

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" HDR 400 UHD (3840x2160) IPS 500nits Anti-glare

Multi-touch

None

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

Keyboard

Backlit, Bulgarian

Pen

None

Fingerprint Reader

Fingerprint Reader

NFC

None

Color Calibrator

None

TPM

Discrete TPM 2.0

Battery

Integrated 80Wh

Power Adapter

135W Slim Tip

System Management

None

Operating System

Windows 10 Pro 64, English

Bundled Software

None

Base Warranty

3-year, Depot

Bundled Service

None

End of Support

2025-08-16

Announce Date

2019-07-16

Recommended Services**Best**

5Y Premier Support Upgrade from 3Y Depot/CCI (5WS0T36119)

Better

4Y Premier Support Upgrade from 3Y Depot/CCI (5WS0T36132)

Good

3Y Premier Support Upgrade from 3Y Depot/CCI (5WS0T36160)

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					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, 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	
Chipset	Mobile Intel CM246 Chipset										Bundled Accy	Optional: ThinkPad Ethernet Extension Cable	
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 / 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°			
	15.6"	FHD (1920x1080) Dolby Vision™ HDR		IPS	Anti-glare	500 nits	16:9	1200:1	72% NTSC	170°			
	15.6"	UHD (3840x2160) Dolby Vision HDR		IPS	Anti-glare	500 nits	16:9	1200:1	100% Adobe	170°			
	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°			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture (UHD OLED only), anti-reflection (AR), anti-smudge (AS) coating										Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight	
Pen	Supports pen accessory, please see the accessory compatibility for details										UltraNav™	TrackPoint® pointing device and buttonless glass surface multi-touch touchpad	
Storage	Up to two M.2 SSD M.2 2280 SSD / PCIe NVMe 3.0 x 4										Security	Power-on password, hard disk password, supervisor password, security keyhole	
RAID (optional)	RAID 0/1 support										Security chip	Discrete TPM 2.0, TCG Certified	
Optical	None										System Mgt (opt)	Intel vPro Technology	
Ethernet	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via bundled or optional ThinkPad Ethernet Extension Cable										Fingerprint reader	Touch style match on chip fingerprint reader on the keyboard bezel	
WLAN (optional)	Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.0										Color calibration	Optional: X-Rite Pantone factory color calibration (UHD model only)	
Bluetooth™	Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter										NFC	None	
WWAN	None										Battery	Integrated Li-ion 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr)	
SIM card	None										Max battery life	MobileMark® 2014: 14 hr * Battery life varies significantly with settings, usage, & other factors	
											AC adapter	135W slim tip AC adapter	
											Operating system	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™ Silver; ENERGY STAR® 7.1; RoHS-compliant	

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

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