

ThinkPad X1 Extreme (2nd Gen) 20QV000YGE

Product
ThinkPad X1 Extreme (2nd Gen)

Region
WE

Country
Germany

Machine Type
20QV

TopSeller
TopSeller

Processor
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 DIMM DDR4-2666

Display
15.6" HDR 400 FHD (1920x1080) IPS 500nits Anti-glare

Multi-touch
None

Storage
256GB SSD M.2 2280 PCIe NVMe Opal2

RAID
No

Optical
None

WLAN + Bluetooth
Intel AX200 11ax, 2x2 + BT5.1

WWAN
None

SIM Card
None

Smart Card Reader
Smart Card Reader

Monitor Cable
None

Bundled Accessories
ThinkPad Ethernet Extension Cable

Color
Black Paint

Camera
720p + IR

Keyboard
Backlit

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

Bundled Software
None

Warranty
3-year, Depot

Upsell Service Bundles
None

End of Support
2025-08-16

Announce Date
2019-07-16

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)	
	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: 4096x2160@60Hz (Thunderbolt); 4096x2160@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°	Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight		
	15.6"	FHD (1920x1080) HDR 400, Dolby Vision™	IPS	Anti-glare	500 nits	16:9	1200:1	72% NTSC	170°	UltraNav™	TrackPoint® pointing device and buttonless glass surface multi-touch touchpad		
	15.6"	UHD (3840x2160) HDR 400, Dolby Vision	IPS	Anti-glare	500 nits	16:9	1200:1	100% Adobe	170°	Security	Power-on password, hard disk password, supervisor password, security keyhole		
	15.6"	UHD (3840x2160) HDR 500 True Black, Dolby Vision, Multi-touch	OLED	AR, AS	SDR 400nit HDR 500nit (Peak)	16:9	100000:1	100% DCI-P3	170°	Security chip	Discrete TPM 2.0, TCG Certified		
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture (UHD OLED only), anti-reflection (AR), anti-smudge (AS) coating										System Mgt (opt)	Intel vPro Technology	
Pen	Supports pen accessory, please see the accessory compatibility for details										Fingerprint reader	Touch style match on chip fingerprint reader on the keyboard bezel	
Storage	Up to two M.2 SSD M.2 2280 SSD / PCIe NVMe 3.0 x 4										Color calibration	Optional: X-Rite Pantone factory color calibration (UHD model only)	
RAID (optional)	RAID 0/1 support										NFC	None	
Optical	None										Battery	Integrated Li-ion 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr)	
Ethernet	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via bundled or optional ThinkPad Ethernet Extension Cable										Max battery life	MobileMark® 2014: 14 hr * Battery life varies significantly with settings, usage, & other factors	
WLAN	Intel Wireless-AX 22260, Wi-Fi 2x2 802.11ax + Bluetooth 5.1										AC adapter	135W slim tip AC adapter	
Bluetooth™	Bluetooth 5.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter										Preload	Windows® 10 Home 64 or Windows 10 Pro 64	
WWAN	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	
SIM card	None										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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