

ThinkPad X1 Extreme (2nd Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor	9th Generation Intel® Core™ i5 / i7 / i9 Processor									Dimensions	<i>WxDxH (non-touch):</i> 14.24" x 9.67" x 0.72"; 361.8mm x 245.7mm x 18.4mm <i>WxDxH (multi-touch):</i> 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	<i>Non-touch model:</i> starting at 3.75 lb / 1.7 kg; <i>Multi-touch model:</i> starting at 3.97 lb / 1.8 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	<i>Display cover:</i> CFRP/GFRP hybrid; <i>Bottom:</i> Aluminum alloy		
	i7-9750H	6	12	2.6 GHz	4.5 GHz	12MB				Smart card reader	<i>Optional:</i> 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 <i>* Power Delivery only supports power-out for charging peripherals</i> <i>* Depending on many factors, actual data transfer speed may be lower than theoretical speed</i>			
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)	<i>HDMI to VGA:</i> Lenovo HDMI to VGA Monitor Adapter <i>USB-C to VGA:</i> Lenovo USB-C to VGA Adapter <i>USB-C to DP:</i> Lenovo USB-C to DisplayPort Adapter		
Chipset	Mobile Intel CM246 Chipset									Bundled Accy	<i>Optional:</i> ThinkPad Ethernet Extension Cable		
Memory	64GB max / 2666MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets									Camera (optional)	<i>One of the following, configurable by model:</i> • 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® Atmos® sound system / optional dual 360° far-field microphone, headphone / microphone combo jack		
	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 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	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)	Intel vPro Technology		
	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°	Fingerprint reader	Touch style match on chip fingerprint reader on the keyboard bezel		
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture (UHD OLED only), anti-reflection (AR), anti-smudge (AS) coating									Color calibration	<i>Optional:</i> X-Rite Pantone factory color calibration (UHD model only)		
Pen (optional)	<ul style="list-style-type: none"> Lenovo Pen Pro (for multi-touch display) Pen upgradable (pen needs to be purchased separately) Not support (non-touch display doesn't support pen input) 									NFC	None		
Storage	Up to two M.2 SSD M.2 2280 SSD / PCIe NVMe 3.0 x 4									Battery	Integrated Li-Polymer 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr)		
RAID (optional)	RAID 0/1 support									Max battery life	<i>MobileMark® 2014:</i> 14 hr <i>* Battery life varies significantly with hardware configurations, settings, usage, & other factors</i>		
Optical	None									AC adapter	135W slim tip AC adapter		
Ethernet	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via optional ThinkPad Ethernet Extension Cable									Operating system	<i>Optional:</i> Windows® 10 Home 64 or Windows 10 Pro 64		
WLAN + Bluetooth™ (opt)	Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.1 <i>* Intel Wi-Fi 6 full features might be limited by country level restrictions</i> <i>* BT5.1 is supported on Windows 10 version 2004 or above (limited to BT5.0 on earlier version)</i>									Limited warranty	<ul style="list-style-type: none"> 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 		
WWAN	None									Mil-Spec test	MIL-STD-810G military testing		
SIM card	None									Environment	EPEAT™ Gold; ENERGY STAR® 8.0; TCO Certified; RoHS-compliant		

Note: The specifications above may not be available in all regions and might change by regions.

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