ThinkPad X1 Extreme (2nd Gen) Platform Specifications

Processor	9th Generation Intel® Core™ i5 / i7 / i9 Processor												Dimensions		
	Proce Numb	ber Cores Thread					Max Turbo requency	Cache	Types		Processor Graphics		Weight	WxDxH (multi-touch): 14.24" x 9.67" x 0.74"; 361.8mm x 245.7mm x 18.7mm Non-touch model: starting at 3.75 lb / 1.7 kg; Multi-touch model: starting at 4.0 lb / 1.81 kg	
	i5-930 i5-940 i7-975	00H 50H	4 4 6	8 8 12	2.5 2.6	GHz GHz	4.1 GHz 4.3 GHz 4.5 GHz	+	DDR4	-2666 Int	tel UHD Graphics 630			Black paint (FHD model) or black weave (UHD model) Display cover: CFRP/GFRP hybrid; Bottom: Aluminum alloy	
	i7-98		6 8	12 16		2.6 GHz 4.6 GHz 2.3 GHz 4.8 GHz		12MB 16MB					Media reader	er Optional: Smart card reader SD Card reader (SD, SDHC, SDXC), supports UHS-II SD card	
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)												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	
Chipset Memory	Mobile Intel CM246 Chipset 64GB max / 2666MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets											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	Resolu	tion		Туре	Surfac	e Bright		spect (Contrast Ratio	Color Gamut	Viewing Angle		Optional: ThinkPad Ethernet Extension Cable	
	15.6"	FHD (1	1920x1080) IF	IPS	Anti-gla	re 300 i	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		
	15.6"	FHD (1 Dolby \	920x1 /ision™	080) ^M HDR	IPS	Anti-gla	re 500 i	nits	16:9 1200:	1200:1	72% NTSC	170°	Audio support H[IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus HD Audio, Synaptic® CX11880 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / 	
	15.6"	UHD (3 Dolby \	8840x2 /ision l	2160) HDR	IPS	Anti-gla	re 500 i	nits	16:9	1200:1	100% Adobe	170°		optional dual 360° far-field microphone, headphone / microphone combo jack, Dolby Atmos® sound system	
		UHD (3 Dolby \ Multi-to	/ision I		OLED	Anti- reflection Anti- smudo	(nes	00niť	16:9	00000:1	100% DCI-P3	170°	Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, LED backlight TrackPoint® pointing device and buttonless glass surface multi-touch touchpad	
Multi-touch (opt) Pen (optional)	Capacitive-type multi-touch, supports 10-finger gesture (UHD OLED only), anti-reflection (AR), anti-smudge (AS) coating												Security Power-on password, hard disk password, supervisor password, security keyhole Discrete TPM 2.0, TCG Certified System Mgt (opt) Intel vPro Technology		
Storage	Up to two M.2 SSD												Fingerprint reade Color calibration NFC	r Touch style match on chip fingerprint reader on the keyboard bezel Optional: X-Rite Pantone factory color calibration (UHD model only) None	
RAID (optional) Optical	RAID 0/1 support												Battery Max battery life	Integrated Li-ion 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr) MobileMark® 2014: 14 hr	
Ethernet	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro))										?ro))		* Battery life varies significantly with settings, usage, & other factors AC adapter 135W slim tip AC adapter		
WLAN (optional) Bluetooth™	Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.0 Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter										or		· · · · · · · · · · · · · · · · · · ·	Optional: Windows® 10 Home 64 or Windows 10 Pro 64 One of the following, configurable by model:	
WWAN SIM card	None	None None											Limited warranty	 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	

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