ThinkPad X1 Extreme Platform Specifications

Processor	8th Generation Intel® Core™ i5 / i7 Processor	Smart card reader Optional: Smart card reader	
	Processor # of # of Base Max Turbo Cache Memory Processor	Media reader Ports	SD Card reader (SD, SDHC, SDXC), supports UHS-II SD card Two USB 3.1 Gen 1 (one Always On),
	inclumber Cores Inreads Frequency Frequency Types Graphics Investor Graphics Grap	1 0110	two USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of Power Delivery
	15-8400H 4 8 2.5 GHz 4.2 GHz 8MB DDR4-2666 Intel UHD Graphics		and DisplayPort), HDMI 2.0, Ethernet extension connector, headphone / microphone combo jack, optional smart card reader,
	17-873011 6 12 2.2 GHZ 4.1 GHZ OMB		SD card reader, security keyhole
			* 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 1050 Ti Max-Q, 4GB GDDR5 memory;	Monitor cable (optional)	HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
	supports external digital monitor via HDMI or Thunderbolt";	Bundled Accy	USB-C to DP: Lenovo USB-C to DisplayPort Adapter Optional: ThinkPad Ethernet Extension Cable
	supports four independent displays; Max resolution: 5K@60Hz (Thunderbolt); 4K@60Hz (HDMI)	Camera (optional)	One of the following, configurable by model:
Chipset	Mobile Intel CM246 Chipset	, , ,	 HD720p camera with ThinkShutter camera privacy, fixed focus IR camera and HD720p camera, fixed focus
Memory	64GB max / 2666MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets	Audio support	HD Audio, Realtek® ALC3286 codec /
Display	Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, WVA,		stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone (for special bid model, microphone is optional),
	300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle		headphone / microphone combo jack, Dolby Atmos® headphone
	Some: 15.6" (396mm) HDR UHD (3840x2160) with Dolby Vision™, LED backlight,	Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight
	WVA, 400 nits, 16:9 aspect ratio, 1200:1 contrast ratio, 100% gamut, 170° viewing angle, multi-touch, anti-reflection (AR)	UltraNav™	TrackPoint® pointing device and buttonless glass surface multi-touch touchpad
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture (4K only)	Security Security chip	Power-on password, hard disk password, supervisor password, security keyhole Discrete TPM 2.0, TCG Certified (may be disabled in some region)
Pen (optional)	Lenovo Pen Pro (special bid only) Up to 2 drives (two M.2 SSD)	vPro <i>(optional)</i>	Intel vPro Technology
Storage	M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2)		rTouch style match on chip fingerprint reader on the keyboard bezel None
RAID (optional)	• M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxGB SSD M.2 PCIe NVMe) 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))	Max battery life (MobileMark 2014)	Discrete mode: 9.5 hr; Hybrid mode: 14.9 hr * Battery life varies significantly with hardware configurations, settings, usage, & other factors
	via optional ThinkPad Ethernet Extension Cable	AC adapter	135W slim tip AC adapter
	Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter		Optional: Windows® 10 Home 64 or Windows 10 Pro 64
WWAN	None	Limited warranty (optional)	One of the following, configurable by model: • 1-year depot repair service
SIM card	None	(optional)	1-year depot with 2-year system board repair service
Dimensions	WxDxH (non-touch): 14.24" x 9.67" x 0.72"; 361.8mm x 245.7mm x 18.4mm WxDxH (multi-ouch): 14.24" x 9.67" x 0.74"; 361.8mm x 245.7mm x 18.7mm		 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service
Weight	Non-touch model: starting at 3.76 lb / 1.7 kg;	Mil-Spec test	MIL-STD-810G military testing
Case color	Multi-touch model: starting at 4.06 lb / 1.8 kg Black	Environment	EPEAT™ Gold (US only); ENERGY STAR® 7.0; TCO Certified; RoHS-compliant
Case material	Display cover: CFRP/GFRP hybrid;		
	Bottom: Aluminum alloy		

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