

ThinkPad X1 Extreme 20MF000S++

Region
EMEA

Machine Type
20MF

TopSeller
TopSeller

Processor
Core i5-8300H (4C, 2.3 / 4.0GHz, 8MB)

vPro
No

Graphics
NVIDIA GeForce GTX 1050 Ti 4GB GDDR5

Chipset
Intel CM246

Memory
16GBx1 non-ECC

Display
15.6" FHD (1920x1080) IPS

Multi-touch
None

Pen
None

Storage
512GB SSD M.2 PCIe NVMe Opal2

RAID
No

Optical
None

WLAN + Bluetooth
Intel 9560 ac, 2x2 + BT5.0

WWAN
None

SIM Card
None

Smart Card Reader
Smart Card Reader

Monitor Cable
None

Adapter
ThinkPad Ethernet Extension Cable

Camera
720p

Keyboard
Backlit

Fingerprint Reader
Fingerprint Reader

NFC
None

TPM
dTPM 2.0

Battery
80Wh

Power Adapter
135W Slim Tip

Operating System
Windows 10 Pro 64

Warranty
3-year, Onsite

End of Support
Sep 28, 2024

Ann Date (mm/yy)
08/18

Note:

* Country Code "US" is for United States, "++" is for EMEA countries (e.g. AD - Saudi, Arabia, AT - Austria, BM - Bulgaria, etc.), "xx" is for EAST countries (e.g. BM - Bulgaria, CX - Hungary, CY - Cyprus, etc.), and "***" is for MEA countries (e.g. AD - Saudi, Arabia, ED - Egypt, EQ - Sweden, etc.). Please be aware that the EMEA/ EAST/MEA models listed above might not be available in all countries



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ThinkPad X1 Extreme Platform Specifications

Product Specifications Reference (PSREF)

Processor	8th Generation Intel® Core™ i5 / i7 Processor								Smart card reader Media reader Ports	Optional: Smart card reader SD Card reader (SD, SDHC, SDXC), supports UHS-II SD card Two USB 3.1 Gen 1 (one Always On), two USB Type-C / Thunderbolt 3, HDMI 2.0, Ethernet extension connector, headphone / microphone combo jack, optional smart card reader, 4-in-1 reader (MMC, SD, SDHC, SDXC), security keyhole HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter USB-C to DP: Lenovo USB-C to DisplayPort Adapter
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics		
	i5-8300H	4	8	2.3 GHz	4.0 GHz	8MB	DDR4-2400	Intel UHD Graphics 630		
	i5-8400H			2.5 GHz	4.2 GHz					
	i7-8750H	6	12	2.2 GHz	4.1 GHz	9MB				
i7-8850H	2.6 GHz			4.3 GHz						
Graphics	Intel UHD Graphics 630 in processor and NVIDIA® GeForce® GTX 1050 Ti Max-Q, 4GB GDDR5 memory; supports external digital monitor via HDMI or Thunderbolt™; supports four independent displays; Max resolution: 5120x2880@30Hz (Thunderbolt); 4096x2160@60Hz (HDMI)								Camera (optional)	One of the following, configurable by model: • HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera, fixed focus
Chipset	Mobile Intel CM246 Chipset								Audio support	HD Audio, Realtek® ALC3286 codec, stereo speakers, 2W x 2, Dolby® Audio™ Premium, headphone / microphone combo jack, Dolby Atmos® headphone, dual array microphone
Memory	64GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets * Installed DIMMs are actually 2666MHz but run at 2400MHz due to Intel limitation								Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight
Display	Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle Some: 15.6" (396mm) HDR 4K (3840x2160) with Dolby Vision™, anti-glare, LED backlight, IPS, 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	Power-on password, hard disk password, supervisor password, security keyhole
Pen	Supports pen accessory, please see the accessory compatibility for details								Security chip vPro (optional)	Discrete TPM 2.0, TCG Certified Intel vPro Technology
Storage	Up to 2 drives (two M.2 SSD) • M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2) • M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxGB SSD M.2 PCIe NVMe)								Fingerprint reader	Touch style match on chip fingerprint reader on the keyboard bezel
RAID (optional)	RAID 0/1 support								Color calibration	None
Optical	None								NFC	None
Ethernet	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro)) via optional ThinkPad Ethernet Extension Cable								Battery	Integrated Li-Ion 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
WLAN	Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card								Max battery life	Discrete mode: 9.5 hr; Hybrid mode: 14.9 hr
Bluetooth™	Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								(MobileMark® 2014)	* Battery life varies significantly with settings, usage, & other factors
WWAN	None								AC adapter	135W slim tip AC adapter
SIM card	None								Preload	Windows® 10 Home 64 or Windows 10 Pro 64
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								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
Weight	Non-touch model: starting at 3.76 lb (1.7 kg); Multi-touch model: starting at 4.06 lb (1.8 kg)								Mil-Spec test	MIL-STD-810G military certification
Case color	Black								Environment	EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant
Case material	Display cover: CFRP/GFRP hybrid; Bottom: Aluminum alloy									

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September 2018

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