

# ThinkPad X1 Extreme 20MF000WRT

**Product**

ThinkPad X1 Extreme

**Region**

RUSSIA

**Country/Region**

Russia

**Machine Type**

20MF

**TopSeller**

TopSeller

**Processor**

Intel Core i7-8750H (6C / 12T, 2.2 / 4.1GHz, 9MB)

**Graphics**

NVIDIA GeForce GTX 1050 Ti 4GB GDDR5

**Chipset**

Intel CM246

**Memory**

1x 16GB SO-DIMM DDR4-2666

**Storage**

256GB SSD M.2 2280 PCIe NVMe Opal2

**RAID**

No

**Display**

15.6" FHD (1920x1080) IPS 300nits Anti-glare

**Touchscreen**

None

**Pen**

None

**Media Reader**

SD Card Reader

**Ethernet**

100/1000M via Optional Adapter

**Optical**

None

**WLAN + Bluetooth**

Intel 9560 11ac, 2x2 + BT5.0

**WWAN**

None

**SIM Card**

None

**Smart Card Reader**

Smart Card Reader

**Monitor Cable**

None

**Case Material**

CFRP/GFRP (Top), Aluminum Alloy (Bottom)

**Bundled Accessories**

ThinkPad Ethernet Extension Cable

**Camera**

720p with ThinkShutter

**Microphone**

2x, Array

**Color**

Black

**Keyboard**

Backlit, Russian

**Fingerprint Reader**

Touch Style, Match-on-Chip

**NFC**

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

**Base Warranty**

3-year, Onsite

**Bundled Service**

None

**EAN / UPC / JAN**

0193124444918

**End of Support**

2024-09-28

**Announce Date**

2018-08-28

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**Recommended Services****Best**

5Y Premier Support Upgrade from 3Y Onsite (5WS0T36163)

**Better**

4Y Premier Support Upgrade from 3Y Onsite (5WS0T36146)

**Good**

3Y Premier Support Upgrade from 3Y Onsite (5WS0U26638)

**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 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 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 <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>
	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	DDR4-2666	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: 5K@60Hz (Thunderbolt); 4K@60Hz (HDMI)								Monitor cable (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								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, fixed focus
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 UHD (3840x2160) with Dolby Vision™, LED backlight, IPS, 400 nits, 16:9 aspect ratio, 1200:1 contrast ratio, 100% gamut, 170° viewing angle, multi-touch, anti-reflection (AR)								Audio support	HD Audio, Realtek® ALC3286 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone (optional for special bid model), headphone / microphone combo jack, Dolby Atmos® headphone
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture (4K only)								Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight
Pen (optional)	Lenovo Pen Pro (special bid only)								UltraNav™	TrackPoint® pointing device and buttonless glass surface multi-touch touchpad
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)								Security	Power-on password, hard disk password, supervisor password, security keyhole
RAID (optional)	RAID 0/1 support								Security chip	Discrete TPM 2.0, TCG Certified (may be disabled in some region)
Optical	None								vPro (optional)	Intel vPro Technology
Ethernet	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro)) via bundled or optional ThinkPad Ethernet Extension Cable								Fingerprint reader	Touch style match on chip fingerprint reader on the keyboard bezel
WLAN (optional)	Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card								Color calibration	None
Bluetooth™ (opt)	Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								NFC	None
WWAN	None								Battery	Integrated Li-ion 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
SIM card	None								Max battery life (MobileMark 2014)	Discrete mode: 9.5 hr; Hybrid mode: 14.9 hr <i>* Battery life varies significantly with settings, usage, &amp; other factors</i>
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								AC adapter	135W slim tip AC adapter
Weight	Non-touch model: starting at 3.76 lb / 1.7 kg; Multi-touch model: starting at 4.06 lb / 1.8 kg								Operating system	Optional: Windows® 10 Home 64 or Windows 10 Pro 64
Case color	Black								Limited warranty (optional)	One of the following, configurable by model: • 1-year depot repair service • 1-year depot with 2-year system board repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service
Case material	Display cover: CFRP/GFRP hybrid; Bottom: Aluminum alloy								Mil-Spec test	MIL-STD-810G military testing
									Environment	EPEAT™ Gold (US only); ENERGY STAR® 7.0; RoHS-compliant

Note: The specifications above may not be available in all regions.

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# ThinkPad X1 Extreme

