

# ThinkPad X1 Extreme Gen 3 20TK000DGE

## Product

ThinkPad X1 Extreme Gen 3

## Region

WE

## Country/Region

Germany

## Machine Type

20TK

## TopSeller

TopSeller

## Processor

Intel Core i7-10750H (6C / 12T, 2.6 / 5.0GHz, 12MB)

## Graphics

NVIDIA GeForce GTX 1650 Ti Max-Q 4GB GDDR6

## Chipset

Intel WM490

## Memory

1x 16GB SO-DIMM DDR4-2933

## Storage

512GB SSD M.2 2280 PCIe NVMe Opal2

## RAID Preset

No

## Display

15.6" UHD (3840x2160) IPS 600nits Anti-glare, 100% Adobe, Dolby Vision, HDR

## Touchscreen

None

## Pen

None

## Media Reader

SD Card Reader

## Ethernet

100/1000M via Optional Adapter

## Optical

None

## WLAN + Bluetooth

Intel AX201 11ax, 2x2 + BT5.1

## WWAN

None

## SIM Card

None

## Smart Card Reader

None

## Monitor Cable

None

## Case Material

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

## Bundled Accessories

USB-C to Ethernet Adapter

## Camera

720p + IR with ThinkShutter

## Microphone

2x, Array

## Color

Black, Weave

## Keyboard

Backlit, German

## Fingerprint Reader

Touch Style, Match-on-Chip

## NFC

None

## Color Calibrator

Factory Color Calibration

## TPM

Discrete TPM 2.0

## Battery

Integrated 80Wh

## Power Adapter

135W Slim Tip

## System Management

None

## Operating System

Windows 10 Pro 64, German

## Bundled Software

None

## Base Warranty

3-year, Depot

## Bundled Service

3Y Premier TP Halo WHB (CPN) (5WS1B09495)

## EAN / UPC / JAN

0195235282922

## End of Support

2027-03-04

## Announce Date

2020-08-04

## 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 Gen 3 Platform Specifications

Product Specifications Reference (PSREF)

|                   |                                                                                                                                                                                                                                                                                                                                                         |                                   |              |                |                     |                               |              |                    |             |               |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------|----------------|---------------------|-------------------------------|--------------|--------------------|-------------|---------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor         | 10th 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<br><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;<br><i>Multi-touch model:</i> starting at 4.0 lb / 1.81 kg                                                                                                                                                                                                                                                                                                                                  |
|                   | i5-10400H                                                                                                                                                                                                                                                                                                                                               | 4                                 | 8            | 2.6 GHz        | 4.6 GHz             | 8MB                           | DDR4-2933    | Intel UHD Graphics |             |               | Case color                  | Black paint or black weave                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                   | i7-10750H                                                                                                                                                                                                                                                                                                                                               | 6                                 | 12           | 2.6 GHz        | 5.0 GHz             | 12MB                          |              |                    |             |               | Case material               | <i>Display cover:</i> CFRP/GFRP hybrid;<br><i>Bottom:</i> Aluminum alloy                                                                                                                                                                                                                                                                                                                                                                         |
|                   | i7-10850H                                                                                                                                                                                                                                                                                                                                               |                                   |              | 2.7 GHz        | 5.1 GHz             | 12MB                          |              |                    |             |               |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| i9-10885H         | 8                                                                                                                                                                                                                                                                                                                                                       | 16                                | 2.4 GHz      | 5.3 GHz        | 16MB                |                               |              |                    |             |               |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Graphics          | Intel UHD Graphics in processor only or Intel UHD Graphics in processor and NVIDIA® GeForce® GTX 1650 Ti Max-Q, 4GB GDDR6 memory; supports up to 4 independent displays via native display and 3 external monitors; supports external monitors via HDMI (up to 4K@60Hz) or Thunderbolt™ (up to 5K@60Hz for hybrid model / 4K@60Hz for integrated model) |                                   |              |                |                     |                               |              |                    |             |               | Smart card reader           | None                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Chipset           | Mobile Intel WM490 Chipset                                                                                                                                                                                                                                                                                                                              |                                   |              |                |                     |                               |              |                    |             |               | Media reader                | SD Card reader, supports UHS-II SD card (mutually exclusive with WWAN card)                                                                                                                                                                                                                                                                                                                                                                      |
| Memory            | 64GB max / 2933MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets<br>* Installed memory is actually 3200MHz but run at 2933MHz due to Intel limitation                                                                                                                                                                                            |                                   |              |                |                     |                               |              |                    |             |               | Ports                       | Two USB 3.2 Gen 1 (one Always On),<br>two USB 3.2 Type-C Gen 2 / Thunderbolt 3 (with the function of Power Delivery and DisplayPort 1.4 for discrete graphics / DisplayPort 1.2 for integrated graphics),<br>HDMI 2.0, nano-SIM card slot (WWAN models), headphone / microphone combo jack, SD card reader, security keyhole, slim tip AC adapter<br>* Depending on many factors, actual data transfer speed may be lower than theoretical speed |
| Display           | Size                                                                                                                                                                                                                                                                                                                                                    | Resolution                        | Type         | Surface        | Touch               | Brightness                    | Aspect Ratio | Contrast Ratio     | Color Gamut | Viewing Angle | Monitor cable (optional)    | • Lenovo HDMI to VGA Monitor Adapter<br>• Lenovo USB-C to VGA Adapter<br>• Lenovo USB-C to DisplayPort Adapter<br><i>Optional:</i> Lenovo USB-C to Ethernet Adapter                                                                                                                                                                                                                                                                              |
|                   | 15.6"                                                                                                                                                                                                                                                                                                                                                   | FHD (1920x1080)                   | WVA          | Anti-glare     | -                   | 300 nits                      | 16:9         | 700:1              | 72% NTSC    | 170°          | Camera (optional)           | • HD720p camera with ThinkShutter camera privacy, fixed focus<br>• IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus                                                                                                                                                                                                                                                                                                     |
|                   | 15.6"                                                                                                                                                                                                                                                                                                                                                   | FHD (1920x1080) Dolby Vision™ HDR | WVA          | Anti-glare     | -                   | 500 nits                      | 16:9         | 800:1              | 72% NTSC    | 170°          | Audio support               | HD Audio, Realtek® ALC3286 codec / Dolby® Atmos™ sound system with 3-magnet speakers, 2W x 2 / optional dual array microphone, headphone / microphone combo jack                                                                                                                                                                                                                                                                                 |
|                   | 15.6"                                                                                                                                                                                                                                                                                                                                                   | UHD (3840x2160) Dolby Vision HDR  | WVA          | Anti-glare     | -                   | 600 nits                      | 16:9         | 1400:1             | 100% Adobe  | 178°          | Keyboard                    | 6-row, spill-resistant, multimedia Fn keys with Unified Communications controls, LED backlight                                                                                                                                                                                                                                                                                                                                                   |
|                   | 15.6"                                                                                                                                                                                                                                                                                                                                                   | UHD (3840x2160) Dolby Vision HDR  | OLED         | AR, AS         | Multi-touch         | SDR 400nit, HDR 540nit (peak) | 16:9         | 100000:1           | 100% DCI-P3 | 170°          | UltraNav™                   | TrackPoint® pointing device and buttonless glass surface multi-touch touchpad                                                                                                                                                                                                                                                                                                                                                                    |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, anti-reflection (AR), anti-smudge (AS) coating                                                                                                                                                                                                                                                 |                                   |              |                |                     |                               |              |                    |             |               | Security                    | Power-on password, hard disk password, supervisor password, security keyhole                                                                                                                                                                                                                                                                                                                                                                     |
| Pen (optional)    | Lenovo Pen Pro                                                                                                                                                                                                                                                                                                                                          |                                   |              |                |                     |                               |              |                    |             |               | Security chip               | • Firmware TPM 2.0 integrated in chipset<br>• Discrete TPM 2.0 TCG Certified                                                                                                                                                                                                                                                                                                                                                                     |
| Storage           | Up to two M.2 SSD<br>M.2 2280 SSD / PCIe NVMe 3.0 x 4                                                                                                                                                                                                                                                                                                   |                                   |              |                |                     |                               |              |                    |             |               | System Mgt (opt)            | Intel vPro Technology                                                                                                                                                                                                                                                                                                                                                                                                                            |
| RAID (optional)   | RAID 0/1 support                                                                                                                                                                                                                                                                                                                                        |                                   |              |                |                     |                               |              |                    |             |               | Fingerprint reader          | Touch style match on chip fingerprint reader on the keyboard bezel                                                                                                                                                                                                                                                                                                                                                                               |
| Optical           | None                                                                                                                                                                                                                                                                                                                                                    |                                   |              |                |                     |                               |              |                    |             |               | Color calibration           | <i>Optional:</i> X-Rite Pantone factory color calibration (UHD model only)                                                                                                                                                                                                                                                                                                                                                                       |
| Ethernet          | Gigabit Ethernet connection via optional Lenovo USB-C to Ethernet Adapter                                                                                                                                                                                                                                                                               |                                   |              |                |                     |                               |              |                    |             |               | NFC                         | None                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| WLAN + BT         | Intel Wi-Fi 6 AX201, Wi-Fi 2x2 802.11ax + Bluetooth™ 5.1                                                                                                                                                                                                                                                                                                |                                   |              |                |                     |                               |              |                    |             |               | Battery                     | Integrated Li-Polymer 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 135W AC adapter                                                                                                                                                                                                                                                                                                                                         |
| WWAN (optional)   | Integrated Mobile Broadband 4G LTE-A, Fibocom L860-GL, MIMO 2x2, M.2 card<br>* For non-WWAN model, it means the model is NOT WWAN upgradable                                                                                                                                                                                                            |                                   |              |                |                     |                               |              |                    |             |               | Max battery life            | <i>MobileMark® 2014:</i> 15.6 hr<br><i>MobileMark 2018:</i> 11.8 hr<br>* Battery life varies significantly with hardware configurations, settings, usage, & other factors                                                                                                                                                                                                                                                                        |
| SIM card          | None                                                                                                                                                                                                                                                                                                                                                    |                                   |              |                |                     |                               |              |                    |             |               | AC adapter                  | 135W or 170W slim tip AC adapter (170W for i9-10885H model only)                                                                                                                                                                                                                                                                                                                                                                                 |
|                   |                                                                                                                                                                                                                                                                                                                                                         |                                   |              |                |                     |                               |              |                    |             |               | Operating system            | <i>Optional:</i> Windows® 10 Home 64 or Windows 10 Pro 64                                                                                                                                                                                                                                                                                                                                                                                        |
|                   |                                                                                                                                                                                                                                                                                                                                                         |                                   |              |                |                     |                               |              |                    |             |               | Limited warranty (optional) | • 1-year depot repair service<br>• 1-year depot with 2-year system board repair service<br>• 1-year limited onsite service<br>• 1-year + 2-year depot repair service<br>• 1-year + 2-year limited onsite service<br>• 3-year/1-yr battery depot repair service<br>• 3-year/1-yr battery limited onsite service                                                                                                                                   |
|                   |                                                                                                                                                                                                                                                                                                                                                         |                                   |              |                |                     |                               |              |                    |             |               | Mil-Spec test               | MIL-STD-810G military testing                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                   |                                                                                                                                                                                                                                                                                                                                                         |                                   |              |                |                     |                               |              |                    |             |               | 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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