# ThinkPad X1 Extreme Gen 3 Platform Specifications

**Processor**

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i5-10400H</td>
<td>4</td>
<td>8</td>
<td>2.6 GHz</td>
<td>4.6 GHz</td>
<td>8MB</td>
<td>DDR4-2933</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>i7-10750H</td>
<td>6</td>
<td>12</td>
<td>2.6 GHz</td>
<td>5.0 GHz</td>
<td>12MB</td>
<td>DDR4-2933</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>i7-10850H</td>
<td>8</td>
<td>16</td>
<td>2.7 GHz</td>
<td>5.1 GHz</td>
<td>12MB</td>
<td>DDR4-2933</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>i9-10885H</td>
<td>8</td>
<td>16</td>
<td>2.4 GHz</td>
<td>5.3 GHz</td>
<td>16MB</td>
<td>DDR4-2933</td>
<td>Intel UHD Graphics</td>
</tr>
</tbody>
</table>

**Graphics**

- Intel UHD Graphics in processor only or Intel UHD Graphics 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)
- Intel UHD Graphics in processor only or Intel UHD Graphics and NVIDIA GeForce GTX 1650 Ti Max-Q, 4GB GDDR6 memory; supports discrete graphics via DisplayPort 1.4 for discrete graphics / DisplayPort 1.2 for integrated graphics, HDMI 2.0, nano-SIM card slot (WWAN models), headphone / microphone combo jack, SD card reader, security keyhole, slim tip AC adapter
- Depending on many factors, actual data transfer speed may be lower than theoretical speed

**Chipset**

- Mobile Intel WM490 Chipset
- Mobile Intel WM490 Chipset
- Mobile Intel WM490 Chipset

**Display**

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>Type</th>
<th>Brightness</th>
<th>Aspect Ratio</th>
<th>Contrast Ratio</th>
<th>Color Gamut</th>
<th>Viewing Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.6&quot; FHD (1920x1080)</td>
<td>WVA Anti-glare</td>
<td>300 nits</td>
<td>16.9</td>
<td>700:1</td>
<td>72% NTSC</td>
<td>170°</td>
<td></td>
</tr>
<tr>
<td>15.6&quot; UHD (3840x2160)</td>
<td>WVA Anti-glare</td>
<td>500 nits</td>
<td>16.9</td>
<td>800:1</td>
<td>72% NTSC</td>
<td>170°</td>
<td></td>
</tr>
<tr>
<td>15.6&quot; UHD (3840x2160)</td>
<td>WVA Anti-glare</td>
<td>600 nits</td>
<td>16.9</td>
<td>1400:1</td>
<td>100% Adobe HDR</td>
<td>178°</td>
<td></td>
</tr>
<tr>
<td>15.6&quot; UHD (3840x2160)</td>
<td>OLED AR, AS Multi-touch</td>
<td>SDR 400nits, HDR 540nits (peak)</td>
<td>16.9</td>
<td>100000:1</td>
<td>100% DCI-P3</td>
<td>170°</td>
<td></td>
</tr>
</tbody>
</table>

**Pen (optional)**

- Capacitive-type multi-touch, supports 10-finger gesture, anti-reflection (AR), anti-smudge (AS) coating
- Optional: Lenovo Pen Pro

**Storage**

- Up to two M.2 SSD
- M.2 2280 SSD / PCIe NVMe 3.0 x 4

**RAID (optional)**

- RAID 0/1 support
- None

**Ethernet**

- Gigabit Ethernet connection via optional Lenovo USB-C to Ethernet Adapter
- Optional: Lenovo USB-C to Ethernet Adapter

**WLAN + Bluetooth**

- Intel Wi-Fi 6 AX201, Wi-Fi 2x2 802.11ax + Bluetooth 5.1
- * Intel Wi-Fi 6 full features might be limited by country level restrictions
- * BT5.1 is supported on Windows 10 version 2004 or above (limited to BT5.0 on earlier version)

**WWAN (optional)**

- Integrated Mobile Broadband 4G LTE-A, Fibocom L860-GL, MIMO 2x2, M.2 card
- For non-WWAN model, it means the model is NOT WWAN upgradable

**SIM card**

- None

**Weight**

- Weight: starting at 3.75 lb / 1.7 kg
- Black paint or black weave

**Case color**

- Multi-touch model: starting at 4.0 lb / 1.81 kg
- Display cover: CFRP/GFRP hybrid
- Bottom: Aluminum alloy

**Monitor cable (optional)**

- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort Adapter

**Port(s)**

- SD Card reader, supports UHS-II SD card (mutually exclusive with WWAN card)
- Two USB 3.2 Gen 1 (one Always On), 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), HDMI 2.0, nano-SIM card slot (WWAN models), headphone / microphone combo jack, SD card reader, security keyhole, slim tip AC adapter

**Smart card reader**

- None

**Media reader**

- None

**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

**Keyboard**

- 6-row, spill-resistant, multimedia Fn keys with Unified Communications controls, LED backlight

**Security chip**

- Power-on password, hard disk password, supervisor password, security keyhole
- Firmware TPM 2.0 integrated in chipset
- Discrete TPM 2.0 TCG Certified

**Battery life**

- Battery life varies significantly with hardware configurations, settings, usage, & other factors
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**Military test**

- MIL-STD-810G military testing
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**Limited warranty (optional)**

- 1-year depot repair service
- 1-year depot with 2-year system board repair service
- 1-year limited onsite service
- 1-year + 2-year limited onsite service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service
- None

**Other**

- Windows 10 Home 64 or Windows 10 Pro 64
- MobileMark 2018: 11.8 hr
- MobileMark 2018: 15.6 hr
- MobileMark 2018: 11.8 hr
- MobileMark 2018: 15.6 hr

**Environment**

- ENERGY STAR
- 8.0; TCO Certified; RoHS-compliant

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

Lenovo

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