**ThinkPad X1 Extreme Platform Specifications**

**Product Specifications Reference (PSREF)**

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<tr>
<th>Processor</th>
<th>8th Generation Intel® Core™ i5 / i7 Processor</th>
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<td>8th Gen</td>
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**Graphics**
- Intel UHD Graphics 630 in processor and NVIDIA GeForce® GTX 1050 Ti, 4GB GDDR5 memory; supports external digital monitor via HDMI or Thunderbolt™;
- supports four independent displays;
- Max resolution: 5K@60Hz (Thunderbolt); 4K@60Hz (HDMI)

**Chipset**
- Mobile Intel CM246 Chipset

**Display**
- 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)
- Capacitive-type multi-touch, supports 10-finger gesture (4K only)
- Supports pen accessory, please see the accessory compatibility for details

**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)
- RAID 0/1 support
- None

**Optane™ Memory (optional)**
- None
- None

**Ethernet**
- Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro)) via bundled or optional ThinkPad Ethernet Extension Cable

**WLAN**
- 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

**WWAN**
- None
- None

**Dimensions**
- WellnessCare (non-touch): 14.24" x 9.67" x 0.72"; 361.8mm x 245.7mm x 18.4mm
- WellnessCare (multi-touch): 14.24" x 9.67" x 0.74"; 361.8mm x 245.7mm x 18.7mm

**Weight**
- Non-touch model: starting at 3.76 lb / 1.7 kg
- Multi-touch model: starting at 4.06 lb / 1.8 kg

**Case color**
- Black

**Case material**
- Display cover: CFFRP/GFRP hybrid
- Bottom: Aluminum alloy

**Smart card reader**
- Optional: Smart card reader

**Media 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
- * Power Delivery only supports power-out for charging peripherals
- * Depending on many factors, actual data transfer speed may be lower than theoretical speed

**Monitor cable**
- (optional) HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
- USB-C to DP*: Lenovo USB-C to DisplayPort Adapter
- Optional: ThinkPad Ethernet Extension Cable

**Camera (optional)**
- One of the following, configurable by model:
  - HD720p camera with ThinkShutter camera privacy, fixed focus
  - HD camera and HD720p camera, fixed focus
  - HD Audio, Realtek® ALC3286 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo jack, Dolby Atmos® headphone

**Audio support**
- HD Audio, Realtek® ALC3286 codec / dual array microphone, stereo speakers, 2W x 2
- Intel® vPro Technology
- Touch style match on chip fingerprint reader on the keyboard bezel
- HD720p camera with ThinkShutter camera privacy, fixed focus
- HD camera and HD720p camera, fixed focus
- HD Audio, Realtek® ALC3286 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo jack, Dolby Atmos® headphone

**Battery**
- Integrated Li-ion 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- Max battery life
  - Hybrid mode: 14.9 hr
- * Battery life varies significantly with settings, usage, & other factors

**AC adapter**
- 135W slim tip AC adapter

**Operating system**
- Windows™ 10 Home 64 or Windows 10 Pro 64

**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

**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.