### ThinkPad X1 Yoga (3rd Gen) 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>Proc. Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i5-8250U</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>3.4 GHz</td>
<td>6MB</td>
<td>LPDDR3-2133</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>i5-8350U</td>
<td>4</td>
<td>8</td>
<td>1.7 GHz</td>
<td>3.6 GHz</td>
<td>8MB</td>
<td>LPDDR3-2133</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>i7-8550U</td>
<td>4</td>
<td>8</td>
<td>1.8 GHz</td>
<td>4.0 GHz</td>
<td>8MB</td>
<td>LPDDR3-2133</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>i7-8650U</td>
<td>4</td>
<td>8</td>
<td>1.9 GHz</td>
<td>4.2 GHz</td>
<td>8MB</td>
<td>LPDDR3-2133</td>
<td>Intel UHD Graphics 620</td>
</tr>
</tbody>
</table>

**Graphics**

Intel UHD Graphics 620 in processor; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 5120x2880@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

**Chipset**

Intel SoC (System on Chip) platform

**Memory**

8GB or 16GB / 2133MHz LPDDR3 / soldered to systemboard, no sockets

**Display**

- **Some:** 14.0" (355mm) FHD (1920x1080), LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle, IPS
- **Some:** 14.0" (355mm) QHD (2560x1440), LED backlight, 300 nits, 16:9 aspect ratio, 72% gamut, 170° viewing angle, IPS
- **Some:** 14.0" (355mm) HDR QHD (2560x1440) with Dolby Vision™, LED backlight, 500 nits, 16:9 aspect ratio, 1500:1 contrast ratio, 100% gamut, 170° viewing angle, IPS

**Multi-touch**

Capacitive-type multi-touch, AR (anti-reflection), AS (anti-smudge), supports 10-finger gesture, reduces overall display brightness by 10% Yoga hinge, 360 degree convert-mode

**Hinge**

Laptop, tent, stand, and tablet

**Convert-mode Pen (optional)**

ThinkPad Pen Pro, active pen for multi-touch display, on-board rechargeable

**Storage**

- **Some:** M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD)
- **Some:** M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)

**Optical**

None

**Ethernet**

Native Intel Ethernet Connection WGI219-LM (vPro) via optional ThinkPad Ethernet Extension Cable

**WLAN**

- Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
- * Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS

**Bluetooth™**

Integrated 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

**WWAN (optional)**

Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card

**SIM card (optional)**

Nano-SIM card slot, optional Verizon LTE (US) SIM card

**Dimensions**

WxDxH: 13.11" x 9.02" x 0.67"; 333mm x 229mm x 17.05mm

**Weight**

Starting at 3.08 lb (1.4kg)

**Case color**

Black or silver

**Display cover**

Carbon-Fiber and Glass-Fiber hybrid; Bottom: magnesium-PPS hybrid

**Battery**

Integrated Li-Ion 54Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

**Max battery life**

MobileMark® 2014: 15.4 hr

**Audio**

HD Audio, Realtek ALC3266 codec, Dolby Audio™ Premium / stereo speakers, 1W x 2 / dual array microphone, headphone / microphone combo jack

**Camera**

- HD Audio, Realtek ALC3266 codec, Dolby Audio™ Premium / stereo speakers, 1W x 2 / dual array microphone, headphone / microphone combo jack
- HD720p camera with ThinkShutter camera privacy, fixed focus
- IR & 720p: IR camera and HD720p camera, fixed focus

**WWAN models and HDR panel models can not support IR camera**

**Security**

Power-on password, hard disk password, supervisor password, security keyhole

**Security chip vPro (optional)**

Discrete TPM 2.0 TCG Certified

**Fingerprint reader NFC (optional)**

Near Field Communication

**AC adapter**

45W or 65W USB Type-C AC adapter

**Memory Types**

- U.S. Department of Energy: ENERGY STAR®
- MIL-STD-810G military certification

**Smart card reader**

None

**Media reader**

MicroSD card reader, supports UHS-II

**Ports**

- Two USB 3.1 Gen 1 (one Always On), two USB 3.1 Type-C Gen 2 / Thunderbolt 3, HDMI 1.4, Ethernet extension connector, nano-SIM card slot (WWAN models), headphone / microphone combo jack, microSD card reader
- * Depending on many factors, actual data transfer speed may be lower than theoretical speed

**WiGig dock**

None

**Monitor cable**

HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter

**Camera**

- Lenovo USB-C to DP: Lenovo USB-C to DP Adapter
- Lenovo USB-C to DisplayPort Adapter

**Audio support**

HD Audio, Realtek ALC3266 codec, Dolby Audio™ Premium / stereo speakers, 1W x 2 / dual array microphone, headphone / microphone combo jack

**Keyboard**

- 6-row wave keyboard (rise & fall), spill-resistant, multimedia Fn keys, LED backlight
- TrackPoint® pointing device and 3+2 buttons multi-touch clickpad

**Fingerprint reader**

Touch style match on chip fingerprint reader on the palm rest

**Battery life**

- 15.4 hr
- Battery life varies significantly with settings, usage, & other factors

**AC adapter**

- 45W or 65W USB Type-C AC adapter

**Light sensor**

Ambient Light Sensor

**G-sensor**

3D accelerometer and 3D magnetometer

**Compass**

None

**Gyro sensor**

3D gyrometer

**Preload**

Windows 10 Pro 64

**Limited warranty**

One of the following, configurable by model:

- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery depot repair service

**Environment**

EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

* Lenovo USB-C to DisplayPort Adapter

**March 2019**

Lenovo