## ThinkPad X1 Yoga (3rd Gen) Processor Specifications

### 7th Generation Intel Core™ i5 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>i5-7300U</td>
<td>2</td>
<td>4</td>
<td>2.6 GHz</td>
<td>3.5 GHz</td>
<td>3MB</td>
<td>LPDDR3-1866</td>
<td>Intel HD Graphics 620</td>
</tr>
</tbody>
</table>

### 8th Generation Intel Core i5 / i7 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>i5-8250U</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>i5-8550U</td>
<td>4</td>
<td>8</td>
<td>1.8 GHz</td>
<td>4.0 GHz</td>
<td>8MB</td>
<td></td>
<td></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></td>
<td></td>
</tr>
</tbody>
</table>

### Graphics
- Intel HD Graphics 620 or 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
- Supports USB Type-C (Power Delivery, DisplayPort, Data transfer), 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

### Monitor
- HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
- USB-C to VGA: Lenovo USB-C to VGA Adapter
- USB-C to DP: Lenovo USB-C to DisplayPort Adapter

### WiGig dock
- None

### Camera
- One of the following, configurable by model:
  - 720p: HD720p camera with ThinkShutter camera privacy, fixed focus
  - IR & 720p: IR camera and HD720p camera, fixed focus
  - WWAN models and HDR panel models can support IR camera

### Audio support
- HD Audio, Realtek ALC3286 codec, Dolby Audio™ Premium / stereo speakers, 1W x 2 / 360° Noise-cancelling Dual Array Far Field, headphone / microphone combo jack

### Keyboard
- 6-row wave keyboard (rise & fall), spill-resistant, multimedia Fn keys, LED backlit
- UltraNav™ pointing device and 3+2 buttons multi-touch clickpad

### Security
- Power-on password, hard disk password, supervisor password, security keyhole
- Security chip: Discrete TPM 2.0 TCG Certified
- Intel vPro Technology
- Fingerprint reader: Touch style match on chip fingerprint reader on the palm rest

### Battery
- Integrated Li-Ion 54Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter
- MobileMark 2014: 15.4 hrs
- Battery life varies significantly with settings, usage, & other factors

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

### Environment
- EPEAT™ Silver; ENERGY STAR®; RoHS-compliant

### Limited warranty (optional)
- One of the following, configurable by model:
  - 1-year depot repair service
  - 2-year system board service
  - 2-year battery depot repair service

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

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

### Wi-Fi
- One of the following, configurable by model:
  - Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.2, M.2 card
  - Intel Wireless-AC 9260, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card

### Bluetooth™
- Bluetooth 4.2 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 (opt)
- 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

### Case material
- Display: Carbon-Fiber and Glass-Fiber hybrid; Bottom: magnesium-PPS hybrid

### Environmental
- EPEAT™ Silver; ENERGY STAR®; RoHS-compliant

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**WWAN models and HDR panel models can support IR camera.**

* Battery life varies significantly with settings, usage, & other factors.

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Lenovo

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