ThinkPad X1 Carbon Gen 8 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>5-10210U</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>4.2 GHz</td>
<td>8MB</td>
<td>LPDDR3-2133</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>5-10310U</td>
<td>4</td>
<td>8</td>
<td>1.7 GHz</td>
<td>4.4 GHz</td>
<td>8MB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7-10510U</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>4.9 GHz</td>
<td>8MB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7-10610U</td>
<td>4</td>
<td>8</td>
<td>1.8 GHz</td>
<td>4.9 GHz</td>
<td>8MB</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Graphics

Intel UHD Graphics in processor; supports up to 3 independent displays via native display and two external monitors; supports external monitors via HDMI (up to 4K@24Hz) or Thunderbolt (5K@60Hz)

### Chipset

Intel SoC (System on Chip) platform

### Memory

- 8GB or 16GB / 2133MHz LPDDR3 / soldered to systemboard, no sockets
- Intel Optane Memory H10 with Solid State Storage
- M.2 2280 SSD / PCIe NVMe 3.0 x 4

### Display

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>Type</th>
<th>Surface</th>
<th>Touch</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>14.0&quot; FHD (1920x1080)</td>
<td>IPS Anti-glare</td>
<td>-</td>
<td>400 nits</td>
<td>16.9</td>
<td>800:1</td>
<td>72%</td>
<td>170°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.0&quot; FHD (1920x1080)</td>
<td>IPS Anti-glare</td>
<td>Multi-touch</td>
<td>400 nits</td>
<td>16.9</td>
<td>700:1</td>
<td>72%</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>14.0&quot; FHD (1920x1080)</td>
<td>IPS Anti-glare</td>
<td>Multi-touch</td>
<td>500 nits</td>
<td>16.9</td>
<td>1000:1</td>
<td>72%</td>
<td>170°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.0&quot; WQHD (2560x1440)</td>
<td>IPS Anti-glare</td>
<td>-</td>
<td>300 nits</td>
<td>16.9</td>
<td>1200:1</td>
<td>72%</td>
<td>170°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.0&quot; UHD (3840x2160)</td>
<td>IPS Glossy</td>
<td>-</td>
<td>500 nits</td>
<td>16.9</td>
<td>1500:1</td>
<td>90% DCI-P3</td>
<td>170°</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- QHD is NOT available in EMEA
- Capacitive-type multi-touch, supports 10-finger gesture, anti-reflection (AR) / anti-smudge (AS) coating

### Storage

- M.2 2280 SSD / PCIe NVMe 3.0 x 4
- Intel Optane Memory H10 with Solid State Storage, M.2 2280, PCIe NVMe 3.0 x 4

### Optical

None

### Ethernet

Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via optional ThinkPad Ethernet Extension Adapter Gen 2

### WLAN + Bluetooth™

Wi-Fi 6 AX201, Wi-Fi 6 2x2 802.11ax + Bluetooth 5.1

### WWAN (optional)

- Wireless WAN upgradeable
  - Integrated Mobile Broadband 4G LTE, Quectel EM05CEFC, M.2 card
  - Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card
  - 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 upgradeable
  - Gemalto eSIM
  - Nano-SIM card, Lenovo Connect 4 months, 4G LTE

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