ThinkPad X280 Platform Specifications

Product Specifications Reference (PSREF)

ThinkPad X280 Platform Specifications

Processor 7th Generation Intel® Core™ i3 / i5 Processor
* i3-7130U is NOT available in US and EMEA; i5-7200U is NOT available in US

<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>i3-7020U</td>
<td>2</td>
<td>4</td>
<td>2.3 GHz</td>
<td>-</td>
<td>3MB</td>
<td>DDR4-2133 Intel HD Graphics 620</td>
<td></td>
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<tr>
<td>i3-7130U</td>
<td>2</td>
<td>4</td>
<td>2.7 GHz</td>
<td>-</td>
<td>3MB</td>
<td>DDR4-2133 Intel HD Graphics 620</td>
<td></td>
</tr>
<tr>
<td>i5-7200U</td>
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<td>8</td>
<td>2.5 GHz</td>
<td>3.1 GHz</td>
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<tr>
<td>i5-7300U</td>
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<td>8</td>
<td>2.6 GHz</td>
<td>3.5 GHz</td>
<td>3MB</td>
<td>DDR4-2133 Intel HD Graphics 620</td>
<td></td>
</tr>
</tbody>
</table>

or 8th Generation Intel Core / i3 / i5 / i7 Processor

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>i3-8130U</td>
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<td>3.4 GHz</td>
<td>4MB</td>
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<td>i5-8350U</td>
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<td>8</td>
<td>1.7 GHz</td>
<td>3.6 GHz</td>
<td>6MB</td>
<td>DDR4-2400 Intel UHD Graphics 620</td>
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<td>i7-8550U</td>
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<td>8</td>
<td>1.8 GHz</td>
<td>4.0 GHz</td>
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<td>i7-8650U</td>
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<td>4.2 GHz</td>
<td>8MB</td>
<td>DDR4-2400 Intel UHD Graphics 620</td>
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</tr>
</tbody>
</table>

Graphics Intel HD Graphics 620 or Intel UHD Graphics 620 in processor; supports external digital monitor via HDMI or USB-C; supports three independent displays; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

Chipset Intel SoC (System on Chip) platform

Memory 4GB, 8GB, or 16GB / 2400MHz DDR4 / soldered to systemboard, no sockets
* 4GB memory is NOT available in US and EMEA
* System clocks down for processors with lower memory controller

Display Some: 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio
Some: 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle

Multi-touch (opt) On-cell touch, supports 10-finger gesture (FHD only)
* FHD non-touch model is NOT available in US

Storage One of the following, configurable by model:
* 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)

Optical None

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

WLAN + Bluetooth® 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

WWAN (optional) One of the following, configurable by model:
* Integrated Mobile Broadband 4G LTE, Intel XMM™ 7262 (Fibocom LB30-EB), M.2 card (EMEA only)
* Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom LB50-GL), M.2 card
* For non-WWAN model, it means the model is NOT WWAN upgradable

SIM card (opt) Nano-SIM card slot, in the combo slot with microSD card reader, optional Verizon LTE (US) SIM card

Camera (optional) One of the following, configurable by model:
* HD720p camera with ThinkShutter camera privacy, fixed focus
* IR camera and HD720p camera, fixed focus
* HD Audio, Realtek ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo jack

Audio support
* HD Audio
* IR camera and HD720p camera, fixed focus
* HD Audio, Realtek ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo jack

Fingerprint reader One of the following, configurable by model:
* Touch style match on chip fingerprint reader on the palm rest, anti-spoofing technology
* Discrete TPM 2.0, TCG Certified
* Touch style match on chip fingerprint reader on the palm rest, anti-spoofing technology
* Discrete TPM 2.0, TCG Certified

Battery Integrated Li-ion 48Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

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

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

Operating system Optional: Windows® 10 Home 64 or Windows 10 Pro 64

Limited warranty One of the following, configurable by model:
* 1-year depot repair service
* 1-year depot with 2-year planar repair service
* 3-year/1-yr battery depot repair service
* 3-year/1-yr battery limited onsite service

Mi-Spec test MIL-STD-810G military testing

Environment EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

Note: The specifications above may not be available in all regions.

Lenovo
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