## 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 Controller</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i3-7130U</td>
<td>2</td>
<td>4</td>
<td>2.7 GHz</td>
<td>-</td>
<td>3MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 620</td>
</tr>
<tr>
<td>i5-7200U</td>
<td>4</td>
<td>4</td>
<td>2.5 GHz</td>
<td>3.1 GHz</td>
<td>3MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>i3-8130U</td>
<td>2</td>
<td>4</td>
<td>2.2 GHz</td>
<td>3.4 GHz</td>
<td>4MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<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>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>i5-8250U</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>4.0 GHz</td>
<td>8MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
</tbody>
</table>

*i3-7130U is not available in EMEA and US

## Graphics

Intel HD Graphics in processor only, or
AMD Radeon RX 550 Graphics, 2GB DDR5 memory, digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent displays; Max resolution: 1920x1080 (HDMI)@60Hz

## Memory

32GB max / 2400MHz DDR4, non-parity, dual-channel capable, two 260-pin SO-DIMM sockets

* System clocks down for processors with lower memory controller

## Display

Some: 14.0” (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio

Some: 14.0” (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio

## Multi-touch

None

## Storage

Up to 2 drives (one M.2 SSD and one HDD)

Some: M.2 SSD / PCIe NVMe

Some: HDD / SATA 6.0Gb/s, 2.5” wide, removable, upgradable, Active Protection System™

Some: Dummy HDD

## Optical

None

## Ethernet

Gigabit Ethernet Connection, Realtek R8111GUS

## WLAN

One of the following, configurable by model:
- Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + BT combo adapter, M.2 Card
- Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
- Realtek RTL8821CE, Wi-Fi 1x1 802.11ac + BT4.1, M.2 card
- Bluetooth® 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

## Bluetooth™

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

## WWAN

None

## Smart Card Reader

None

## WWAN SIM card

None

## ExpressCard

None

## Dock

None

## MultiCard Reader Ports

Micro SD card reader

Two USB 3.1 (one Always On), one USB 2.0, HDMI 1.4b, Ethernet (RJ-45), One USB 3.1 Type-C Gen 2 (support data, video, and power delivery)

## Monitor cable

None

## Limited warranty

1-year - depot repair service / service upgrades available

## Mil-Spec test

None

## Environment

ENERGY STAR®, RoHS-compliant

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**Dimensions**

<table>
<thead>
<tr>
<th>Aluminum (WxDxH)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.96” x 9.53” x 0.78”; 329mm x 242mm x 19.9mm</td>
<td>From 3.85 lb (1.75kg)</td>
</tr>
</tbody>
</table>

**Case color**

<table>
<thead>
<tr>
<th>LCD Rear</th>
<th>Base Cover</th>
<th>Top Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black or Silver</td>
<td>Black or Silver</td>
<td>Black or Silver</td>
</tr>
</tbody>
</table>

**Case material**

<table>
<thead>
<tr>
<th>Aluminu</th>
<th>Aluminum display cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>PolyCarbonate/Acrylonitrile-Butadiene-Styrene display cover</td>
<td></td>
</tr>
</tbody>
</table>

**Camera**

HD720p resolution, fixed focus

**Audio support**

HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio / stereo speakers, 1.5W x 2 / dual array microphone, combo audio / microphone jack

**Keyboard**

6-row, spill-resistant, multimedia Fn keys, optional LED backlight

**UltraNav™**

TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

**Fingerprint reader**

Some: Touch style fingerprint reader on the palm rest

**NF C**

None

**Security**

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

**Security chip**

TPM2.0: Firmware TPM 2.0, integrated in chipset

dTPM2.0: Discrete TPM 2.0, TCG Certified

**vPro**

No

**Battery type**

45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

**Battery life**

up to 13.51 hr

**Preload**

Some: Windows 10 Pro 64

Some: No operating system

Some: Windows 10 Home 64

- Lenovo Companion
- PC Manager
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® Live Safe (30-day trial)

**Limited warranty**

1-year - depot repair service / service upgrades available

**Mil-Spec test**

None

**Environment**

ENERGY STAR®, RoHS-compliant

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Lenovo

December 2017