## 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>i5-9400H</td>
<td>4</td>
<td>8</td>
<td>2.1 GHz</td>
<td>4.2 GHz</td>
<td>6MB</td>
<td>DDRI4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>i7-9750H</td>
<td>6</td>
<td>12</td>
<td>2.6 GHz</td>
<td>4.5 GHz</td>
<td>12MB</td>
<td>DDRI4-2666</td>
<td>Intel UHD Graphics P630</td>
</tr>
<tr>
<td>i7-8850H</td>
<td>8</td>
<td>12</td>
<td>2.6 GHz</td>
<td>4.6 GHz</td>
<td>12MB</td>
<td>DDRI4-2666</td>
<td>Intel UHD Graphics P630</td>
</tr>
<tr>
<td>E-2278M</td>
<td>6</td>
<td>12</td>
<td>2.8 GHz</td>
<td>4.7 GHz</td>
<td>12MB</td>
<td>DDRI4-2666</td>
<td>Intel UHD Graphics P630</td>
</tr>
</tbody>
</table>

## Graphics

- Intel UHD Graphics 630 or P630 in processor and NVIDIA Quadro P620 (4GB GDDR5), T2000 (4GB GDDR5), RTX 3000 (6GB GDDR6, VR ready), RTX 4000 Max-Q (8GB GDDR6, VR ready), or RTX 5000 Max-Q (16GB GDDR6, VR ready);
- Up to 5 displays with 4 external monitors plus system LCD screen. External monitors supported via USB-C, Thunderbolt, and HDMI.
- Max resolution: 5K @ 60Hz (Thunderbolt), 4K @ 60Hz (USB-C or HDMI).

## Chipset Memory

- Mobile Intel CM246 Chipset, dual-channel capable, four DDR4 SO-DIMM sockets.

## Display

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>Type</th>
<th>Surface</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>17.3&quot;</td>
<td>FHD (1920x1080)</td>
<td>WVA</td>
<td>Anti-glare</td>
<td>300 nits</td>
<td>16:9</td>
<td>700:1</td>
<td>72%</td>
<td>160°</td>
</tr>
<tr>
<td>17.3&quot;</td>
<td>UHD (3840x2160)</td>
<td>WVA</td>
<td>Anti-glare</td>
<td>400 nits</td>
<td>16:9</td>
<td>1000:1</td>
<td>100%</td>
<td>170°</td>
</tr>
</tbody>
</table>

## Multi-touch Pen

- None

## Storage

- Up to 3 drives (two M.2 SSD and one HDD), supports single sided M.2 2280 drives only.
- SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
- M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4

## Optane™ memory

- Optional: Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2
- RAID (optional): RAID 0/1 support

## Ethernet

- Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
- vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

## WLAN (optional)

- Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.1
- Bluetooth 5.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

## WWAN

- None

## SIM card

- None

## Dimensions

- WxDxH: 16.38" x 11.06" x 1.02-1.22"; 318mm x 281mm x 25.9-31mm

## Weight

- Starting at 7.5 lb (3.4kg)

## Case color

- Black

## Case material

- Display cover: GFRP + PPS; Bottom: Magnesium/Aluminum

## Smart card reader

- Optional: Smart card reader

## ExpressCard

- None

## Media reader

- 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card
- Three USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort), two USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of PD and DP), HDMI 2.0, Ethernet (RJ-45), headphone / microphone combo jack, optional smart card reader, 4-in-1 reader (MMC, SD, SDHC, SDXC), security keyhole.

## Monitor cable

- Optional: 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

## Bundled Accy

- None

## Camera

- Optional: IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus

## Audio support

- HD Audio, Synaptic CX11880 codec / stereo speakers, 2W x 2 / dual array far-field microphone, headphone / microphone combo jack, Dolby Atmos sound system

## Keyboard

- 6-row, spill-resistant, multimedia Fn keys, numeric keypad, LED backlight

## UltraNav™

- 3-button TrackPoint® pointing device and 3-button Mylar surface multi-touch touchpad

## Security

- Power-on password, hard disk password, supervisor password, security keyhole
- Secure boot
- Intel vPro Technology
- Fingerprint reader
- Discrete TPM 2.0, TCG Certified
- Touch style match on chip fingerprint reader on the palm rest
- Color calibration: Optional: X-Rite Pantone factory color calibration (UHD model only)
- Near Field Communication

## Battery

- Integrated Li-Polymer 99Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- Battery life varies significantly with hardware configurations, settings, usage, & other factors

## AC adapter

- MobileMark 2014: 17.2 hr
- 170W or 230W slim tip AC adapter

## Operating system

- One of the following, configurable by model:
  - Windows® 10 Home 64
  - Windows 10 Pro 64
  - Windows 10 Pro 64 for Workstations

## Limited warranty

- One of the following, configurable by model:
  - 1-year depot repair service
  - 3-year/1-yr battery depot repair service
  - 3-year/1-yr battery limited onsite service

## Mil-Spec test

- MIL-STD-810G military testing

## Environment

- ENERGY STAR® 8.0; RoHS-compliant

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

Lenovo

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