## ThinkPad P51 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>7-6620HQ</td>
<td>4</td>
<td>8</td>
<td>2.7 GHz</td>
<td>3.6 GHz</td>
<td>8MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 530</td>
</tr>
<tr>
<td>E3-1505M v6</td>
<td>4</td>
<td>8</td>
<td>2.8 GHz</td>
<td>3.7 GHz</td>
<td>8MB</td>
<td>DDR4-2040</td>
<td>Intel HD Graphics 530</td>
</tr>
<tr>
<td>7-7700HQ</td>
<td>4</td>
<td>8</td>
<td>2.8 GHz</td>
<td>3.8 GHz</td>
<td>6MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 530</td>
</tr>
<tr>
<td>7-7820HQ</td>
<td>4</td>
<td>8</td>
<td>2.9 GHz</td>
<td>3.9 GHz</td>
<td>6MB</td>
<td>DDR4-2400</td>
<td>Intel HD Graphics 630</td>
</tr>
<tr>
<td>E3-1535M v6</td>
<td>4</td>
<td>8</td>
<td>3.0 GHz</td>
<td>4.0 GHz</td>
<td>8MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 530</td>
</tr>
<tr>
<td>E3-1535M v6</td>
<td>4</td>
<td>8</td>
<td>3.1 GHz</td>
<td>4.2 GHz</td>
<td>8MB</td>
<td>DDR4-2133</td>
<td>Intel HD Graphics 530</td>
</tr>
</tbody>
</table>

### Graphics

- Intel HD Graphics 530, 630, P530, or P630 in processor and Intel HD Graphics
- 3.8 GHz
- 3.9 GHz
- 4.2 GHz
- 5.9 lb / 2.67kg
- 4.5 hr
- 6.4 lb / 2.90kg
- 6.5 hr

### Chipset

- Mobile Intel CM238 Chipset

### Memory

- 64GB max / 2400MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets

### Display

- 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, WVA, 300 nits
- 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, WVA, 250 nits
- 16.9 aspect ratio, 700:1 contrast ratio, 160° viewing angle

### Multi-touch (optional)

- Touch style match on chip fingerprint reader on the palm rest

### Storage

- Up to 3 drives (two M.2 SSD and one HDD), supports single sided M.2 2280 drives only
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

### Operating system

One of the following, configurable by model:

- Windows® 7 Professional 64
- Windows® 10 Home 64
- Windows 10 Pro 64
- Windows 10 Pro 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

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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