

# ThinkCentre M720 Tower Platform Specifications

Product Specifications Reference (PSREF)

| Processor                 | Intel® Celeron®, Intel Pentium®, or 8th Generation Intel Core™ i3 / i5 / i7 Processor   | WLAN <sup>13</sup>            | <p><i>Some:</i> 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1</p> <p><i>Some:</i> 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2</p> <p><i>Some:</i> 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1</p> <p><i>Some:</i> 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2</p> <p><i>Some:</i> Bluetooth 4.2 wireless, integrated in Wi-Fi + BT combo adapter</p>  |                         |                     |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
|---------------------------|---|-------------------------------|---|-------------------------|---------------------|------------------------|---------------------|---------------|-------|------|------|-----------|---------|---------------|-------|------|------|-----------|---------|--------------------|-------|------|------|-----------|---------|--------------------|-------|------|------|-----------|---------|--------------------|-------|------|------|-----------|---------|--------------|-------|------|------|-----------|---------|--------------|-------|------|------|-----------|---------|--------------|-------|-------------|------|-----------|---------|--------------|-------|-------------|------|-----------|---------|--------------|-------|-------------|------|-----------|---------|--------------|--------|-------------|-------|-----------|---------|--------------|-------|-------------|------|-----------|---------|--------------|-------|-------------|------|-----------|---------|--------------|-------|-------------|------|-----------|---------|--------------|-------|-------------|------|-----------|---------|--------------|-------|-------------|------|-----------|---------|--------------|-------|-------------|------|-----------|---------|--------------|-------|-------------|-------|-----------|---------|--------------|--------|-------------|-------|-----------|---------|------------|--|
|                           | <table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Frequency Base/Max(GHz)</th> <th>Cache</th> <th>Memory Support (Up to)</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr><td>Celeron G4900</td><td>2 / 2</td><td>3.1G</td><td>2 MB</td><td>DDR4-2400</td><td>UHD 610</td></tr> <tr><td>Celeron G4920</td><td>2 / 2</td><td>3.2G</td><td>2 MB</td><td>DDR4-2400</td><td>UHD 610</td></tr> <tr><td>Pentium Gold G5400</td><td>2 / 4</td><td>3.7G</td><td>4 MB</td><td>DDR4-2400</td><td>UHD 610</td></tr> <tr><td>Pentium Gold G5500</td><td>2 / 4</td><td>3.8G</td><td>4 MB</td><td>DDR4-2400</td><td>UHD 630</td></tr> <tr><td>Pentium Gold G5600</td><td>2 / 4</td><td>3.9G</td><td>4 MB</td><td>DDR4-2400</td><td>UHD 630</td></tr> <tr><td>Core i3-8100</td><td>4 / 4</td><td>3.6G</td><td>6 MB</td><td>DDR4-2400</td><td>UHD 630</td></tr> <tr><td>Core i3-8300</td><td>4 / 4</td><td>3.7G</td><td>8 MB</td><td>DDR4-2400</td><td>UHD 630</td></tr> <tr><td>Core i5-8400</td><td>6 / 6</td><td>2.8G / 4.0G</td><td>9 MB</td><td>DDR4-2666</td><td>UHD 630</td></tr> <tr><td>Core i5-8500</td><td>6 / 6</td><td>3.0G / 4.1G</td><td>9 MB</td><td>DDR4-2666</td><td>UHD 630</td></tr> <tr><td>Core i5-8600</td><td>6 / 6</td><td>3.1G / 4.3G</td><td>9 MB</td><td>DDR4-2666</td><td>UHD 630</td></tr> <tr><td>Core i7-8700</td><td>6 / 12</td><td>3.2G / 4.6G</td><td>12 MB</td><td>DDR4-2666</td><td>UHD 630</td></tr> <tr><td>Core i3-9100</td><td>4 / 4</td><td>3.6G / 4.2G</td><td>6 MB</td><td>DDR4-2400</td><td>UHD 630</td></tr> <tr><td>Core i3-9300</td><td>4 / 4</td><td>3.7G / 4.3G</td><td>8 MB</td><td>DDR4-2400</td><td>UHD 630</td></tr> <tr><td>Core i3-9320</td><td>4 / 4</td><td>3.7G / 4.4G</td><td>8 MB</td><td>DDR4-2400</td><td>UHD 630</td></tr> <tr><td>Core i5-9400</td><td>6 / 6</td><td>2.9G / 4.1G</td><td>9 MB</td><td>DDR4-2666</td><td>UHD 630</td></tr> <tr><td>Core i5-9500</td><td>6 / 6</td><td>3.0G / 4.4G</td><td>9 MB</td><td>DDR4-2666</td><td>UHD 630</td></tr> <tr><td>Core i5-9600</td><td>6 / 6</td><td>3.1G / 4.6G</td><td>9 MB</td><td>DDR4-2666</td><td>UHD 630</td></tr> <tr><td>Core i7-9700</td><td>8 / 8</td><td>3.0G / 4.7G</td><td>12 MB</td><td>DDR4-2666</td><td>UHD 630</td></tr> <tr><td>Core i9-9900</td><td>8 / 16</td><td>3.1G / 5.0G</td><td>16 MB</td><td>DDR4-2666</td><td>UHD 630</td></tr> </tbody> </table> | Processor                     | Cores / Threads   | Frequency Base/Max(GHz) | Cache               | Memory Support (Up to) | Integrated Graphics | Celeron G4900 | 2 / 2 | 3.1G | 2 MB | DDR4-2400 | UHD 610 | Celeron G4920 | 2 / 2 | 3.2G | 2 MB | DDR4-2400 | UHD 610 | Pentium Gold G5400 | 2 / 4 | 3.7G | 4 MB | DDR4-2400 | UHD 610 | Pentium Gold G5500 | 2 / 4 | 3.8G | 4 MB | DDR4-2400 | UHD 630 | Pentium Gold G5600 | 2 / 4 | 3.9G | 4 MB | DDR4-2400 | UHD 630 | Core i3-8100 | 4 / 4 | 3.6G | 6 MB | DDR4-2400 | UHD 630 | Core i3-8300 | 4 / 4 | 3.7G | 8 MB | DDR4-2400 | UHD 630 | Core i5-8400 | 6 / 6 | 2.8G / 4.0G | 9 MB | DDR4-2666 | UHD 630 | Core i5-8500 | 6 / 6 | 3.0G / 4.1G | 9 MB | DDR4-2666 | UHD 630 | Core i5-8600 | 6 / 6 | 3.1G / 4.3G | 9 MB | DDR4-2666 | UHD 630 | Core i7-8700 | 6 / 12 | 3.2G / 4.6G | 12 MB | DDR4-2666 | UHD 630 | Core i3-9100 | 4 / 4 | 3.6G / 4.2G | 6 MB | DDR4-2400 | UHD 630 | Core i3-9300 | 4 / 4 | 3.7G / 4.3G | 8 MB | DDR4-2400 | UHD 630 | Core i3-9320 | 4 / 4 | 3.7G / 4.4G | 8 MB | DDR4-2400 | UHD 630 | Core i5-9400 | 6 / 6 | 2.9G / 4.1G | 9 MB | DDR4-2666 | UHD 630 | Core i5-9500 | 6 / 6 | 3.0G / 4.4G | 9 MB | DDR4-2666 | UHD 630 | Core i5-9600 | 6 / 6 | 3.1G / 4.6G | 9 MB | DDR4-2666 | UHD 630 | Core i7-9700 | 8 / 8 | 3.0G / 4.7G | 12 MB | DDR4-2666 | UHD 630 | Core i9-9900 | 8 / 16 | 3.1G / 5.0G | 16 MB | DDR4-2666 | UHD 630 | Bluetooth™ | <p><i>Some:</i> Gigabit ethernet, Intel Ethernet Connection I219-V (Jacksonville), Wake on LAN®</p> <p><i>Some:</i> Intel Ethernet Server Adapter I350-T4*, gigabit ethernet, 4x RJ-45, PCIe x4</p> <p><i>Some:</i> Bitland BN8E88*, gigabit ethernet, 1x RJ-45, PCIe x1 (special bid only)</p> <p>* Choose either I350-T4 or BN8E88</p> |
| Processor                 | Cores / Threads   | Frequency Base/Max(GHz)       | Cache   | Memory Support (Up to)  | Integrated Graphics |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Celeron G4900             | 2 / 2   | 3.1G                          | 2 MB  | DDR4-2400               | UHD 610             |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Celeron G4920             | 2 / 2   | 3.2G                          | 2 MB  | DDR4-2400               | UHD 610             |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Pentium Gold G5400        | 2 / 4   | 3.7G                          | 4 MB  | DDR4-2400               | UHD 610             |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Pentium Gold G5500        | 2 / 4   | 3.8G                          | 4 MB  | DDR4-2400               | UHD 630             |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Pentium Gold G5600        | 2 / 4   | 3.9G                          | 4 MB  | DDR4-2400               | UHD 630             |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Core i3-8100              | 4 / 4   | 3.6G                          | 6 MB  | DDR4-2400               | UHD 630             |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Core i3-8300              | 4 / 4   | 3.7G                          | 8 MB  | DDR4-2400               | UHD 630             |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Core i5-8400              | 6 / 6   | 2.8G / 4.0G                   | 9 MB  | DDR4-2666               | UHD 630             |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Core i5-8500              | 6 / 6   | 3.0G / 4.1G                   | 9 MB  | DDR4-2666               | UHD 630             |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Core i5-8600              | 6 / 6   | 3.1G / 4.3G                   | 9 MB  | DDR4-2666               | UHD 630             |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Core i7-8700              | 6 / 12  | 3.2G / 4.6G                   | 12 MB   | DDR4-2666               | UHD 630             |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Core i3-9100              | 4 / 4   | 3.6G / 4.2G                   | 6 MB  | DDR4-2400               | UHD 630             |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Core i3-9300              | 4 / 4   | 3.7G / 4.3G                   | 8 MB  | DDR4-2400               | UHD 630             |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Core i3-9320              | 4 / 4   | 3.7G / 4.4G                   | 8 MB  | DDR4-2400               | UHD 630             |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Core i5-9400              | 6 / 6   | 2.9G / 4.1G                   | 9 MB  | DDR4-2666               | UHD 630             |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Core i5-9500              | 6 / 6   | 3.0G / 4.4G                   | 9 MB  | DDR4-2666               | UHD 630             |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Core i5-9600              | 6 / 6   | 3.1G / 4.6G                   | 9 MB  | DDR4-2666               | UHD 630             |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Core i7-9700              | 8 / 8   | 3.0G / 4.7G                   | 12 MB   | DDR4-2666               | UHD 630             |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Core i9-9900              | 8 / 16  | 3.1G / 5.0G                   | 16 MB   | DDR4-2666               | UHD 630             |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
|                           |   | Ethernet Ethernet (Opt.)      |   |                         |                     |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
|                           |   | Manageability                 | None  |                         |                     |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
|                           |   | Security chip                 | Discrete TPM 2.0, TCG Certified   |                         |                     |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
|                           |   | Security features             | <ul style="list-style-type: none"> <li>Security slot (in rear for optional Kensington® MicroSaver® cable)</li> <li>Padlock loop</li> <li>Optional cable lock to physically lock both keyboard and mouse</li> <li>Optional chassis intrusion switch</li> <li>Optional chassis E-Lock (special bid)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> <li>Smart USB protection, allows keyboard/mouse only, blocks all storage devices</li> </ul>  |                         |                     |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
|                           |   | Keyboard                      | <p><i>Some:</i> Lenovo Calliope Keyboard (USB connector), black</p> <p><i>Some:</i> Lenovo Traditional Keyboard (USB connector), black</p> <p><i>Some:</i> Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black</p> <p><i>Some:</i> Lenovo Keyboard (PS/2 connector), black (only available via special bid)</p> <p><i>Some:</i> Lenovo Calliope Mouse (USB connector), black</p> <p><i>Some:</i> Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black</p> <p><i>Some:</i> Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black</p> <p><i>Some:</i> Lenovo Mouse (PS/2 connector), black (only available via special bid)</p>  |                         |                     |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Memory                    | 64GB max, UDIMM, DDR4-2666*, four 288-pin DIMM sockets, non-ECC, dual-channel capable<br>* System automatically clocks down for the processors with lower memory controller   | Mouse                         |   |                         |                     |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Storage                   | <p><i>Some:</i> Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm</p> <p><i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"</p> <p><i>Some:</i> M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4*, 32Gb/s * 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s</p> <p><i>Some:</i> Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2</p>   | Mechanical                    | <ul style="list-style-type: none"> <li>Tower (15L), black color, metal case</li> <li>(WxDxH) 5.91" X 10.65" X 14.17"; 150mm X 270.5mm X 360mm</li> <li>Approx. 15.21 lb (6.9 kg), weight may vary by configuration</li> <li>Optional dust filter</li> <li>Bay 1: Slim external ODD bay</li> <li>Bay 2: 3.5", 1" high, internal, HDD/SSD</li> <li>Bay 3: 3.5", 1" high, internal, HDD/SSD (optional bay)</li> <li>Slot 1: half-length full-height (length &lt; 189mm, height &lt; 104mm), PCIe 3.0 x16</li> <li>Slot 2: half-length full-height (length &lt; 189mm, height &lt; 104mm), PCIe 3.0 x1</li> <li>Slot 3: half-length full-height (length &lt; 189mm, height &lt; 104mm), PCIe 3.0 x1</li> <li>Slot 4: no slot, only bracket for optional port extension</li> <li>M.2 card slots: Two (one for WLAN, one for SSD/Optane)</li> </ul> |                         |                     |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Optical                   | <p><i>Some:</i> DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)</p> <p><i>Some:</i> DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)</p>  | Power supply                  | <p><i>Some:</i> 180 watts, autosensing, 85% PSU</p> <p><i>Some:</i> 210 watts, autosensing, 85% PSU</p> <p><i>Some:</i> 260 watts, autosensing, 92% PSU (only available via special bid)</p>  |                         |                     |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Onboard SATA Media reader | Three onboard SATA 6.0Gb/s connectors<br>Optional 7-in-1 media reader   | Limited warranty <sup>3</sup> | <p><i>Some:</i> <b>1-year</b> or <b>3-year, depot service</b> / service upgrades available</p> <p><i>Some:</i> <b>1-year</b> or <b>3-year, limited onsite service</b> / service upgrades available</p>  |                         |                     |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Graphics                  | <p><b>Intel UHD Graphics 610/630</b> in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™, supports 3 independent displays, works along with discrete graphics to support more displays;</p> <p><i>Max resolution:</i> 4096x2304 (DP)@60Hz; 2048x1536 (VGA)@50Hz</p> <p><i>Some:</i> <b>NVIDIA GeForce® GT 730</b>, DirectX 12, 2GB, PCIe 2.0 x16 adapter, two DisplayPort, 35 watts;</p> <p><i>Max resolution:</i> 3840x2160 (DisplayPort)@60Hz;</p>   | Preload                       | <p><b>Preloaded operating system</b></p> <p><i>Some:</i> Windows® 10 Pro 64-bit</p> <p><i>Some:</i> Windows 10 Home 64-bit</p> <p><b>Preloaded applications (only some listed)</b></p> <ul style="list-style-type: none"> <li>Lenovo Vantage</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (only for models with DVD / DVD±RW)</li> <li>Cyberlink Power2GO (only for models with DVD±RW)</li> <li>LinkedIn</li> </ul>   |                         |                     |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Monitor Cable             | Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle (for Collage Display with intel integrated graphics), or DP to HDMI 1.4 dongle  | Environment                   | ENERGY STAR® 6.1, EPEAT™ Silver rating (North America), ErP Lot 3, TCO, TUV low noise verified (coming soon, on some models), RoHS-compliant  |                         |                     |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Chipset                   | <b>Intel B360 Chipset</b>   | Accessories                   | For compatible accessories, please go to <a href="http://smartfind.lenovo.com">http://smartfind.lenovo.com</a>  |                         |                     |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Front ports* (Std.)       | 2x USB 3.1 Gen2, 2x USB 3.1 Gen1, 1x USB 3.1 Type-C Gen1 (15W charging), 1x microphone (3.5mm), 1x headphone / microphone combo jack (3.5mm)  |                               |   |                         |                     |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Front ports* (Opt.)       | Optional: 1x media reader   |                               |   |                         |                     |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Rear ports* (Std.)        | 4x USB 2.0, 1x serial (9-pin), 1x ethernet (RJ-45), 1x VGA, 2x DisplayPort, 1x line-out (3.5mm)   |                               |   |                         |                     |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Rear ports* (Opt.)        | Optional: 2x USB 3.1 Gen1 via PCIe x1**, 2x USB 3.1 Type-C Gen2 via PCIe x4** (special bid only), 1x 2nd serial (9-pin), 4x serial (9-pin) via PCIe x1, 1x parallel (25-pin), 2x PS/2 ports (keyboard/mouse), additional RJ-45 and video ports available on optional graphics or ethernet card<br>* Depending on many factors, actual data transfer speed may be lower than theoretical speed<br>** Choose either 2x USB 3.1 Gen1 or 2x USB 3.1 Type-C Gen2   |                               |   |                         |                     |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |
| Audio support             | High Definition (HD) Audio, Realtek ALC233VB2 / internal speaker (2 watt)   |                               |   |                         |                     |                        |                     |               |       |      |      |           |         |               |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |                    |       |      |      |           |         |              |       |      |      |           |         |              |       |      |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |        |             |       |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |      |           |         |              |       |             |       |           |         |              |        |             |       |           |         |            |  |

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

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