

# ThinkStation P330 Tower 30C5003BGE

|                                                             |                                             |
|-------------------------------------------------------------|---------------------------------------------|
| Region<br>WE                                                | Cable Lock<br>Cable Lock                    |
| Country<br>Germany                                          | System Management<br>Standard Manageability |
| Machine Type<br>30C5                                        | Optional Front Ports<br>None                |
| TopSeller<br>TopSeller                                      | Optional Rear Ports<br>None                 |
| Processor<br>Core i7-8700K 6C/12T/3.7GHz/12MB/95W/DDR4-2666 | Power Supply<br>Fixed 400W Platinum         |
| Memory<br>2x 8GB UDIMM DDR4-2666 Non-ECC                    | Keyboard<br>USB Full                        |
| Processor Graphics<br>Intel UHD Graphics 630                | Mouse<br>USB Optical                        |
| Discrete Graphics Card<br>None                              | Floor Stand for SFF<br>None                 |
| Monitor Cable<br>None                                       | Operating System<br>Windows 10 Pro 64       |
| Disks<br>1x 512GB SSD 2.5" SATA6Gbps Opal                   | Warranty<br>3-year, Onsite                  |
| Flex Bay<br>None                                            | Global<br>No                                |
| Optical<br>9.0mm DVD±RW                                     | End of Support<br>2024/08/27                |
| Optane Memory<br>None                                       | Ann Date (mm/yy)<br>2018/07/27              |
| M.2 Drives<br>None                                          |                                             |
| WLAN + Bluetooth<br>None                                    |                                             |
| Media Reader<br>SD Reader                                   |                                             |
| Available Networking Ports<br>1x GbE                        |                                             |
| Chassis Intrusion Switch<br>Chassis Intrusion Switch        |                                             |

## Note:

Country Code "US" is for United States, "++" is for EMEA countries (e.g. AD - Saudi, Arabia, AT - Austria, BM - Bulgaria, etc.), "xx" is for EAST countries (e.g. BM - Bulgaria, CX - Hungary, CY - Cyprus, etc.), and "\*\*\*" is for MEA countries (e.g. AD - Saudi, Arabia, ED - Egypt, EQ - Sweden, etc.). Please be aware that the EMEA/ EAST/MEA models listed above might not be available in all countries



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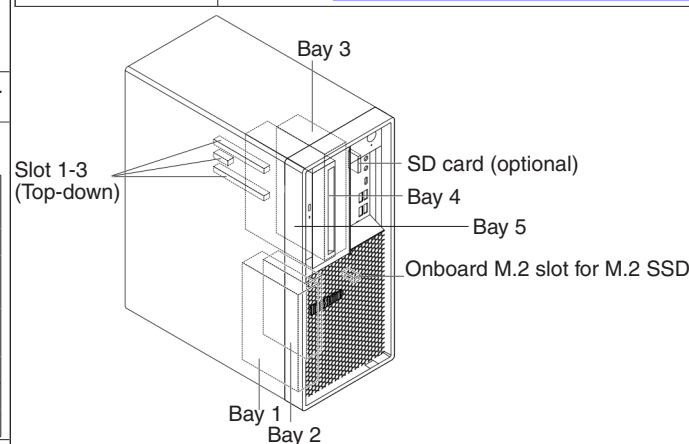


# ThinkStation P330 Tower Platform Specifications

Product Specifications Reference (PSREF)

| Components                                                                  | Specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
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| Machine Type                                                                | MT 30C5 for Transactional model and MT 30C6 for Relationship model.<br>For configuration of all 30C5 EMEA and US models, please visit:<br><a href="http://psref.lenovo.com/Product/ThinkStation/ThinkStation_P330_Tower">http://psref.lenovo.com/Product/ThinkStation/ThinkStation_P330_Tower</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
| Form factor                                                                 | 18L Tower                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
| Dimensions                                                                  | Height: 376 mm (14.8 in). Width: 165 mm (6.5 in). Depth: 328 mm (12.9 in)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
| Weight                                                                      | Maximum configuration: 23.4 lb (10.6kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
| Processor                                                                   | Up to one Intel Xeon E family processor, up to 95W, up to 6 cores at 3.8GHz, up to 12MB cache, up to DDR4-2666 memory speed.<br>Or up to one 8th Intel Core family processor, i7, i5, or i3, up to 95W, up to 6 cores at 3.7GHz, up to 12MB cache, up to DDR4-2666 memory speed.<br>Or up to one Intel Pentium Gold G5400 via Special Bids, 54W, 2 cores at 3.7GHz, 4MB cache, DDR4-2400 memory speed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
| Chipset                                                                     | Intel C246 Chipset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
| Memory                                                                      | 4 DIMM sockets. DDR4-2666. UDIMM. ECC and non-ECC are supported, but memory types cannot be intermixed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
| Memory capacity                                                             | Up to 64GB with 4x 16GB, both ECC and non-ECC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
| Memory protection                                                           | ECC with ECC UDIMM. Core i7 and i5 processors cannot support ECC UDIMM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
| Expansion slots                                                             | Three PCIe 3.0 slots as following:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
|                                                                             | Slot 1 PCIe 3.0 x16, full height, half length, links to CPU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
|                                                                             | Slot 2 PCIe 3.0 x1, full height, full length, links to PCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
|                                                                             | Slot 3 PCIe 3.0 x16 (negotiable link width x4), full height, half length, links to PCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
| Graphics - Processor graphics                                               | Integrated Intel UHD Graphics P630 in -G suffix Xeon processors, or Intel UHD Graphics 630 in Core i7, i5, or i3 processors, or Intel UHD Graphics 610 in Pentium Gold G5400.<br>Works along with discrete graphics to support multi-display, enables three display connectors (2x DP, 1x HDMI. HDMI is optional) on rear                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
| Graphics - Discrete graphics card                                           | Up to two PCIe 3.0 x16 slots for discrete graphics card (Slot 1 and 3). Supports the following graphics adapters:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
|                                                                             | <table><tr><th>Adapter</th><th>Cores</th><th>Memory</th><th>Power</th><th>Connectors</th><th>Max qty</th></tr><tr><td>NVS 810</td><td>1024</td><td>4GB DDR3</td><td>68W</td><td>8x miniDP</td><td>1</td></tr><tr><td>Quadro P400</td><td>256</td><td>2GB GDDR5</td><td>30W</td><td>3x miniDP</td><td>2</td></tr><tr><td>Quadro P620</td><td>512</td><td>2GB GDDR5</td><td>40W</td><td>4x miniDP</td><td>2</td></tr><tr><td>Quadro P1000</td><td>640</td><td>4GB GDDR5</td><td>47W</td><td>4x miniDP</td><td>2</td></tr><tr><td>Quadro P2000</td><td>1024</td><td>5GB GDDR5</td><td>75W</td><td>4x DP</td><td>2</td></tr><tr><td>Quadro P4000</td><td>1792</td><td>8GB GDDR5</td><td>105W</td><td>4x DP</td><td>1</td></tr><tr><td>Geforce GTX 1060</td><td>1280</td><td>6GB GDDR5</td><td>120W</td><td>DVI-D DL, HDMI, 3x DP</td><td>1</td></tr><tr><td>Geforce GTX 1070</td><td>1920</td><td>8GB GDDR5</td><td>150W</td><td>DVI-D DL, HDMI, 3x DP</td><td>1</td></tr><tr><td>Geforce GTX 1080</td><td>2560</td><td>8GB GDDR5X</td><td>180W</td><td>DVI-D DL, HDMI, 3x DP</td><td>1</td></tr><tr><td>Radeon Pro WX 3100</td><td>512</td><td>4GB GDDR5</td><td>50W</td><td>DP, 2x miniDP</td><td>2</td></tr><tr><td>Radeon Pro WX 4100</td><td>1024</td><td>4GB GDDR5</td><td>50W</td><td>4x miniDP</td><td>2</td></tr></table> | Adapter | Cores      | Memory | Power                 | Connectors | Max qty | NVS 810 | 1024 | 4GB DDR3 | 68W | 8x miniDP | 1 | Quadro P400 | 256 | 2GB GDDR5 | 30W | 3x miniDP | 2 | Quadro P620 | 512 | 2GB GDDR5 | 40W | 4x miniDP | 2 | Quadro P1000 | 640 | 4GB GDDR5 | 47W | 4x miniDP | 2 | Quadro P2000 | 1024 | 5GB GDDR5 | 75W | 4x DP | 2 | Quadro P4000 | 1792 | 8GB GDDR5 | 105W | 4x DP | 1 | Geforce GTX 1060 | 1280 | 6GB GDDR5 | 120W | DVI-D DL, HDMI, 3x DP | 1 | Geforce GTX 1070 | 1920 | 8GB GDDR5 | 150W | DVI-D DL, HDMI, 3x DP | 1 | Geforce GTX 1080 | 2560 | 8GB GDDR5X | 180W | DVI-D DL, HDMI, 3x DP | 1 | Radeon Pro WX 3100 | 512 | 4GB GDDR5 | 50W | DP, 2x miniDP | 2 | Radeon Pro WX 4100 | 1024 | 4GB GDDR5 | 50W | 4x miniDP | 2 |
|                                                                             | Adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Cores   | Memory     | Power  | Connectors            | Max qty    |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
|                                                                             | NVS 810                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1024    | 4GB DDR3   | 68W    | 8x miniDP             | 1          |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
|                                                                             | Quadro P400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 256     | 2GB GDDR5  | 30W    | 3x miniDP             | 2          |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
|                                                                             | Quadro P620                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 512     | 2GB GDDR5  | 40W    | 4x miniDP             | 2          |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
|                                                                             | Quadro P1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 640     | 4GB GDDR5  | 47W    | 4x miniDP             | 2          |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
|                                                                             | Quadro P2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1024    | 5GB GDDR5  | 75W    | 4x DP                 | 2          |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
|                                                                             | Quadro P4000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1792    | 8GB GDDR5  | 105W   | 4x DP                 | 1          |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
|                                                                             | Geforce GTX 1060                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1280    | 6GB GDDR5  | 120W   | DVI-D DL, HDMI, 3x DP | 1          |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
|                                                                             | Geforce GTX 1070                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1920    | 8GB GDDR5  | 150W   | DVI-D DL, HDMI, 3x DP | 1          |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
|                                                                             | Geforce GTX 1080                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2560    | 8GB GDDR5X | 180W   | DVI-D DL, HDMI, 3x DP | 1          |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
|                                                                             | Radeon Pro WX 3100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 512     | 4GB GDDR5  | 50W    | DP, 2x miniDP         | 2          |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
|                                                                             | Radeon Pro WX 4100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1024    | 4GB GDDR5  | 50W    | 4x miniDP             | 2          |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
| Notes:                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
| 1. Quadro P4000, 2x Quadro P2000, Geforce GTX1060/1070/1080 needs 400W PSU. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
| 2. Geforce GTX 1060/1070/1080 are dual-slot width.                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
| 3. Geforce GTX 1060/1070/1080 and Radeon Pro WX 3100/4100 are SBO.          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
| Storage controllers                                                         | Integrated Intel SATA AHCI/RAID controller in chipset, 6Gbps SATA, RAID 0/1/10/5. Four onboard SATA ports for max 4 SATA HDD/SSD/ODD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
| Internal storage bay                                                        | Up to five bays with four disk bays plus one slim optical bay, supports up to 3x 3.5" HDD plus 1x 2.5" SSD, or 4x 2.5" SSD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
|                                                                             | Bay 1 Primary disk bay, 3.5" or 2.5"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
|                                                                             | Bay 2 2.5" SATA bay, cannot be available when 2nd Quadro P2000 is used                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
|                                                                             | Bay 3 Secondary disk bay, 3.5" or 2.5"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
|                                                                             | Bay 4 5.25" Flex bay, supports one of the following:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
|                                                                             | <ul style="list-style-type: none"><li>Flex module for optional front eSATA/Thunderbolt/IEEE1394</li><li>3rd disk bay, 3.5" or 2.5", removable, via Front Access Storage Enclosure, using SATA 4 connector as eSATA mode</li><li>3rd disk bay, 3.5" or 2.5", via 5.25" to 3.5" HDD Kit</li><li>M.2 drive, via Front removable M.2 enclosure, also occupies slot 1 or 3</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
|                                                                             | Bay 5 9mm Slim ODD bay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |
| Disks                                                                       | 3.5" HDD supports up to 4TB each, 6Gbps SATA, 7.2K<br>2.5" SSD supports up to 1TB each, 6Gbps SATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |            |        |                       |            |         |         |      |          |     |           |   |             |     |           |     |           |   |             |     |           |     |           |   |              |     |           |     |           |   |              |      |           |     |       |   |              |      |           |      |       |   |                  |      |           |      |                       |   |                  |      |           |      |                       |   |                  |      |            |      |                       |   |                    |     |           |     |               |   |                    |      |           |     |           |   |

| Components                            | Specification                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| M.2 slot for SSD                      | Up to 3x M.2 SSD with one dedicated onboard M.2 slot plus two PCIe to M.2 adapters. PCIe to M.2 adapter uses slot 1 or 3.<br>Supports RAID 0/1 with PCH, When used as RAID, M.2 SSD should be installed in onboard M.2 slot and slot 3.<br>Up to one Optane memory per system; Optane memory must work with a HDD or SSD; Optane memory cannot supported on Pentium G5400 models |
| M.2 SSD                               | M.2 SSD supports up to 1TB each, PCIe 3.0 x4, NVMe, Opal.<br>Optane memory supports 32GB, PCIe 3.0 x2, NVMe, 3D Xpoint                                                                                                                                                                                                                                                           |
| M.2 slot for Wi-Fi and Bluetooth      | One dedicated onboard M.2 slot for optional Intel Wireless-AC 9560, 2x2, 2.4GHz/5GHz (160MHz channels), 802.11ac, Bluetooth 5, up to 1.73Gbps                                                                                                                                                                                                                                    |
| Media reader                          | Optional SD card reader on most models                                                                                                                                                                                                                                                                                                                                           |
| Network interfaces                    | One onboard GbE port via integrated gigabit ethernet Intel i219LM, supports Wake-on-LAN. Optional PCIe ethernet adapters are available                                                                                                                                                                                                                                           |
| Security features                     | Power-on and admin password. Trusted Platform Module, TCG 2.0 compliant. Optional chassis intrusion switch, cable lock, Kensington lock, and pad lock                                                                                                                                                                                                                            |
| Systems management                    | Intel Active Management Technology 12 on Xeon models, Intel Standard Manageability on other models                                                                                                                                                                                                                                                                               |
| Base warranty                         | US models comes with 3-year limited onsite service with 9x5/NBD.<br>1 or 3-year limited onsite service with 9x5/NBD in EMEA or other GEOs                                                                                                                                                                                                                                        |
| HD Audio                              | Intel HD Audio interface with Realtek ALC233 Codec                                                                                                                                                                                                                                                                                                                               |
| Front ports                           | 2x USB 3.1 Gen 1 Type A. 2x USB 3.1 Gen 2 Type A. 1x USB 3.1 Gen 1 Type-C. 1x Mic-in. 1x Combo jack                                                                                                                                                                                                                                                                              |
| Rear ports                            | 2x USB 3.1 Gen 1 Type A. 2x USB 2.0 Type-A. 1x RJ-45. 1x COM. 2x DP.<br><i>Notes: DP needs Core, Pentium, or -G suffix Xeon processor</i>                                                                                                                                                                                                                                        |
| Optional front ports (on flex module) | 2x Thunderbolt (USB Type-C), one of two ports supports video-out.<br>1x eSATA. 1x IEEE1394                                                                                                                                                                                                                                                                                       |
| Optional rear ports                   | 2x USB 3.1 Type-C. 1x COM. PS/2. 1x Parallel. 1x Thunderbolt. 1x IEEE1394. 1x HDMI.<br><i>Notes: HDMI needs Core, Pentium, or -G suffix Xeon processor</i>                                                                                                                                                                                                                       |
| Temperature                           | Operating: 41 °F to 104 °F (10 °C to 35 °C)<br>Non operating (no package): 14 °F to 140 °F (-10 °C to 60 °C)<br>Non operating (with package): -40 °F to 140 °F (-40 °C to 60 °C)                                                                                                                                                                                                 |
| Altitude                              | Operating: -15.2 m (-50 ft) to 3048 m (10 000 ft).<br>Storage: -15.2 m (-50 ft) to 10, 668 m (35 000 ft)                                                                                                                                                                                                                                                                         |
| Humidity                              | Operating: 30%-90%, non-condensing<br>Storage (with package): 20%-90%, non-condensing                                                                                                                                                                                                                                                                                            |
| Environmental certification           | RoHS-compliant. GREENGUARD. EPEAT Gold rating and ENERGY STAR 7 qualified                                                                                                                                                                                                                                                                                                        |
| Power supply                          | Supports one 250W or 400W power supply, 100V - 240V, 92% PSU.<br>Climate Savers Computing Platinum and 80 PLUS Platinum qualified.<br>400W PSU supports one 6+2-pin aux power connector.                                                                                                                                                                                         |
| ISV certifications                    | Please visit <a href="http://www.thinkworkstations.com/isv-certifications/">www.thinkworkstations.com/isv-certifications/</a>                                                                                                                                                                                                                                                    |



# ThinkStation P330 Tower

