

# ThinkStation P330 Tower Gen 2 30CY000RGE

**Product**  
ThinkStation P330 Tower Gen 2

**Region**  
WE

**Country**  
Germany

**Machine Type**  
30CY

**TopSeller**  
TopSeller

**Processor**  
Core i7-9700K 8C/8T/3.6GHz/12MB/95W/DDR4-2666

**Memory**  
2x 8GB UDIMM DDR4-2666 Non-ECC

**Processor Graphics**  
Intel UHD Graphics 630

**Discrete Graphics Card**  
None

**Monitor Cable**  
None

**Storage Controller**  
Onboard Intel RST SATA RAID

**M.2 SSD RAID Controller**  
Onboard Intel RST PCIe RAID

**Internal Disk**  
None

**Optane Memory**  
None

**M.2 SSD Drive**  
1x 512GB SSD M.2 PCIe NVMe Opal

**Optical**  
9.0mm DVD±RW

**Media Reader**  
SD Reader

**HD Audio**  
Onboard Realtek ALC233

**WLAN + Bluetooth**  
None

**Available Networking Port**  
1x GbE RJ-45

**Chassis Intrusion Switch**  
Chassis Intrusion Switch

**Cable Lock**  
None

**E-Lock**  
E-Lock

**Dust Filter**  
None

**Optional 1394 Port**  
None

**Optional Parallel Port**  
None

**Optional Thunderbolt Port**  
None

**Optional Serial Port**  
None

**Optional USB Port**  
None

**Optional eSATA Port**  
None

**Optional PS/2 Port**  
None

**Optional Video Port**  
None

**Keyboard**  
USB Traditional Keyboard

**Mouse**  
USB Calliope Mouse

**Power Supply**  
Fixed 400W Platinum

**System Management**  
Standard Manageability

**Operating System**  
Windows 10 Pro 64

**Bundled Software**  
None

**Warranty**  
3-year, Onsite

**Global**  
No

**End of Support**  
2025-05-30

**Announce Date**  
2019-04-30



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# ThinkStation P330 Tower Gen 2 (30CY and 30D0) Platform Specifications

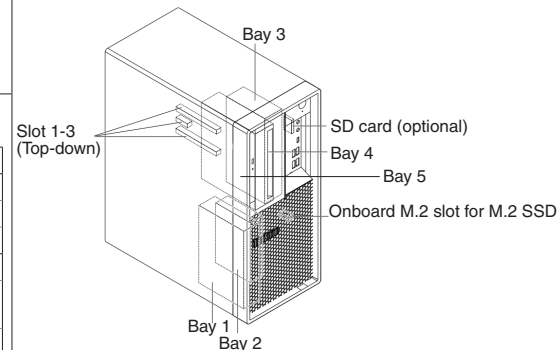
Product Specifications Reference (PSREF)



| Components  | Specification   |                    |                       |                      |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
|---|---|--------------------|-----------------------|----------------------|-----------|---------|-----------------------------|------------|------------|-------------|----------|-----------------------------|------------|-----------|--------------|-----|---------------|------------|-----|-----------------|---|---------------|-----------|-----|-------|----------------------|--------------|-------------|------|------------------|---|-----------------|-----------|------|-----------------------|---|
| 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: 28.22 lb (12.8kg)  |                    |                       |                      |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
| Processor   | Supports one of the following processors: <ul style="list-style-type: none"> <li>Xeon E-2186G 6C/12T/3.8GHz/12MB/95W/DDR4-2666</li> <li>Xeon E-2174G 4C/8T/3.8GHz/8MB/71W/DDR4-2666</li> <li>Core i7-9700K 8C/8T/3.6GHz/12MB/95W/DDR4-2666</li> <li>Core i5-9600K 6C/6T/3.7GHz/9MB/95W/DDR4-2666</li> <li>Core i5-9400 6C/6T/2.9GHz/9MB/65W/DDR4-2666</li> <li>Core i3-8300 4C/4T/3.7GHz/8MB/62W/DDR4-2400</li> <li>Core i3-8100 4C/4T/3.6GHz/6MB/65W/DDR4-2400</li> </ul> <i>Note: Next gen Xeon processors and more 9th Core processor will be supported on June 2019</i>   |                    |                       |                      |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
| Chipset   | Intel C246 Chipset  |                    |                       |                      |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
| Memory Sockets  | 4 DIMM sockets with 2 channels  |                    |                       |                      |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
| Memory Types  | 8GB/16GB DDR4-2666 UDIMM ECC or 4GB/8GB/16GB DDR4-2666 UDIMM non-ECC  |                    |                       |                      |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
| Memory Capacity   | 64B with 4 x 16GB, both UDIMM ECC or UDIMM non-ECC  |                    |                       |                      |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
| Memory Protection   | ECC on models with UDIMM ECC memory   |                    |                       |                      |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
| 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  |                    |                       |                      |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
| Processor graphics  | Slot 3 PCIe 3.0 x16 (negotiable link width x4), full height, half length, links to PCH  |                    |                       |                      |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
|   | Integrated Intel UHD Graphics P630 in -G suffix Xeon processors, or Intel UHD Graphics 630 in Core i7, i5, or i3 processors. Works along with discrete graphics to support multi-display, enables three rear display connectors (2 DP standard, 1 DP or HDMI optional)  |                    |                       |                      |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
| Discrete Graphics Offering  | Up to two PCIe 3.0 x16 slots for discrete graphics card (Slot 1 and 3). Supports the following graphics adapters:   |                    |                       |                      |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
|   | <table border="1"> <thead> <tr> <th>Graphics</th> <th>Memory</th> <th>Power</th> <th>Connector</th> <th>Max Qty</th> </tr> </thead> <tbody> <tr> <td>Quadro P400</td> <td>2GB GDDR5</td> <td>30W</td> <td>3x miniDP</td> <td>2</td> </tr> <tr> <td>Quadro P620</td> <td>2GB GDDR5</td> <td>40W</td> <td>4x miniDP</td> <td>2</td> </tr> <tr> <td>Quadro P1000</td> <td>4GB GDDR5</td> <td>50W</td> <td>4x miniDP</td> <td>2</td> </tr> <tr> <td>Quadro P2000</td> <td>5GB GDDR5</td> <td>75W</td> <td>4x DP</td> <td>2</td> </tr> <tr> <td>Quadro P5000</td> <td>16GB GDDR5X</td> <td>180W</td> <td>DVI-D DL + 4x DP</td> <td>1</td> </tr> <tr> <td>Quadro RTX 4000</td> <td>8GB GDDR6</td> <td>160W</td> <td>3x DP, 1x VirtualLink</td> <td>1</td> </tr> </tbody> </table> | Graphics           | Memory                | Power                | Connector | Max Qty | Quadro P400                 | 2GB GDDR5  | 30W        | 3x miniDP   | 2        | Quadro P620                 | 2GB GDDR5  | 40W       | 4x miniDP    | 2   | Quadro P1000  | 4GB GDDR5  | 50W | 4x miniDP       | 2 | Quadro P2000  | 5GB GDDR5 | 75W | 4x DP | 2                    | Quadro P5000 | 16GB GDDR5X | 180W | DVI-D DL + 4x DP | 1 | Quadro RTX 4000 | 8GB GDDR6 | 160W | 3x DP, 1x VirtualLink | 1 |
|   | Graphics  | Memory             | Power                 | Connector            | Max Qty   |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
|   | Quadro P400   | 2GB GDDR5          | 30W                   | 3x miniDP            | 2         |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
|   | Quadro P620   | 2GB GDDR5          | 40W                   | 4x miniDP            | 2         |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
|   | Quadro P1000  | 4GB GDDR5          | 50W                   | 4x miniDP            | 2         |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
|   | Quadro P2000  | 5GB GDDR5          | 75W                   | 4x DP                | 2         |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
| Quadro P5000  | 16GB GDDR5X   | 180W               | DVI-D DL + 4x DP      | 1                    |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
| Quadro RTX 4000   | 8GB GDDR6   | 160W               | 3x DP, 1x VirtualLink | 1                    |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
| <i>Note: 2x Quadro P2000, Quadro P5000, or Quadro RTX 4000 needs 400W PSU</i> |   |                    |                       |                      |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
| Storage Controller  | <table border="1"> <thead> <tr> <th>Storage Controller</th> <th>Type</th> <th>Interface</th> <th>Disk Type</th> <th>RAID</th> </tr> </thead> <tbody> <tr> <td>Onboard Intel RST SATA RAID</td> <td>Std</td> <td>SATA 6Gb/s</td> <td>HDD or SSD</td> <td>0/1/10/5</td> </tr> <tr> <td>Onboard Intel RST PCIe RAID</td> <td>Std</td> <td>PCIe NVMe</td> <td>M.2 PCIe SSD</td> <td>0/1</td> </tr> </tbody> </table>  | Storage Controller | Type                  | Interface            | Disk Type | RAID    | Onboard Intel RST SATA RAID | Std        | SATA 6Gb/s | HDD or SSD  | 0/1/10/5 | Onboard Intel RST PCIe RAID | Std        | PCIe NVMe | M.2 PCIe SSD | 0/1 |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
| Storage Controller  | Type  | Interface          | Disk Type             | RAID                 |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
| Onboard Intel RST SATA RAID   | Std   | SATA 6Gb/s         | HDD or SSD            | 0/1/10/5             |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
| Onboard Intel RST PCIe RAID   | Std   | PCIe NVMe          | M.2 PCIe SSD          | 0/1                  |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
| Storage Support   | <table border="1"> <thead> <tr> <th>Disk Type</th> <th>Interface</th> <th>RPM</th> <th>Offering</th> <th>Max Qty</th> </tr> </thead> <tbody> <tr> <td>3.5" SATA HDD</td> <td>SATA 6Gb/s</td> <td>7.2K</td> <td>1TB/2TB/4TB</td> <td>3</td> </tr> <tr> <td>2.5" SATA HDD</td> <td>SATA 6Gb/s</td> <td>7.2K</td> <td>500GB FIPS</td> <td>4</td> </tr> <tr> <td>2.5" SATA SSD</td> <td>SATA 6Gb/s</td> <td></td> <td>256GB/512GB/1TB</td> <td>4</td> </tr> <tr> <td>Optane Memory</td> <td>PCIe NVMe</td> <td></td> <td>32GB</td> <td>1, used with HDD/SSD</td> </tr> <tr> <td>M.2 PCIe SSD</td> <td>PCIe NVMe</td> <td></td> <td>256GB/512GB/1TB</td> <td>3</td> </tr> </tbody> </table>  | Disk Type          | Interface             | RPM                  | Offering  | Max Qty | 3.5" SATA HDD               | SATA 6Gb/s | 7.2K       | 1TB/2TB/4TB | 3        | 2.5" SATA HDD               | SATA 6Gb/s | 7.2K      | 500GB FIPS   | 4   | 2.5" SATA SSD | SATA 6Gb/s |     | 256GB/512GB/1TB | 4 | Optane Memory | PCIe NVMe |     | 32GB  | 1, used with HDD/SSD | M.2 PCIe SSD | PCIe NVMe   |      | 256GB/512GB/1TB  | 3 |                 |           |      |                       |   |
|   | Disk Type   | Interface          | RPM                   | Offering             | Max Qty   |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
|   | 3.5" SATA HDD   | SATA 6Gb/s         | 7.2K                  | 1TB/2TB/4TB          | 3         |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
|   | 2.5" SATA HDD   | SATA 6Gb/s         | 7.2K                  | 500GB FIPS           | 4         |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
|   | 2.5" SATA SSD   | SATA 6Gb/s         |                       | 256GB/512GB/1TB      | 4         |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
| Optane Memory   | PCIe NVMe   |                    | 32GB                  | 1, used with HDD/SSD |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
| M.2 PCIe SSD  | PCIe NVMe   |                    | 256GB/512GB/1TB       | 3                    |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
| Storage Bays  | 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" HDD/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> </ul>  |                    |                       |                      |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
|   | Bay 5 9mm Slim ODD bay  |                    |                       |                      |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |
|   | M.2 3x M.2 SSD (1 onboard, 2 via PCIe to M.2 adapter)   |                    |                       |                      |           |         |                             |            |            |             |          |                             |            |           |              |     |               |            |     |                 |   |               |           |     |       |                      |              |             |      |                  |   |                 |           |      |                       |   |

| Components                            | Specification  |
|---------------------------------------|--|
| 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   |
| WLAN + 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  |
| Security features                     | Power-on and admin password. Trusted Platform Module, TCG 2.0 compliant. Optional chassis intrusion switch, e-lock, cable lock, Kensington lock, and pad lock  |
| Intel vPro                            | Supports Intel vPro on Xeon models. vPro also requires Wireless-AC 9560 if Wi-Fi is needed   |
| Intel AMT                             | 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. 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. 1x Audio line-out<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. 1x eSATA. 1x IEEE1394  |
| Optional rear ports                   | Supports the following via cable: 1x COM. 1x Parallel. 2x PS/2. 1x DP or 1x HDMI. 2x USB 2.0<br>Supports the following via PCIe adapter: 4x COM. 2x USB 3.1 Type-C. 2x USB 3.0. 1x Thunderbolt.<br><i>Notes: DP or 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. Climate Savers Computing Platinum and 80 PLUS Platinum qualified. 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>  |

*Note:*  
1. Depending on many factors, actual data transfer speed mentioned on this page may be lower than theoretical speed.  
2. Any questions or advice on ThinkStation PSREF, please contact [ThinkStation PSREF developer](mailto:ThinkStation_PSREF_developer@lenovo.com)



# ThinkStation P330 Tower Gen 2

