# ThinkStation P330 Tower Gen 2 30CY001NUS

Product
ThinkStation P330 Tower Gen 2

Region
NA

Country
USA

Machine Type
30CY

TopSeller
TopSeller

Processor
Core i7-9700 8C/8T/3.0GHz/12MB/65W/DDR4-2666

Memory
2x 16GB 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

# ThinkStation P330 Tower Gen 2 (30CY and 30D0) Platform Specifications - I of II

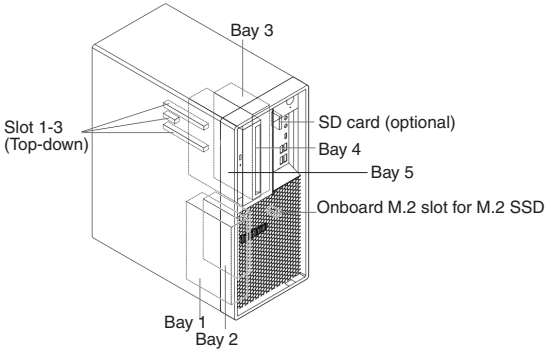


| Components | Specification |
|---|---|
| Form factor | 18L Tower |
| Dimensions | Height: 376 mm (14.8 in). Width: 165 mm (6.5 in). Depth: 328 mm (12.9 in) |
| Weight | Maximum configuration: 28.22 lb (12.8kg) |
| Processor | Supports one of the following processors:<br>Xeon E-2288G – 8C/16T/3.7GHz/16MB/95W/DDR4-2666 – 400W PSU needed<br>Xeon E-2286G – 6C/12T/4.0GHz/12MB/95W/DDR4-2666 – 400W PSU needed<br>Xeon E-2278G – 8C/16T/3.4GHz/16MB/80W/DDR4-2666 – 400W PSU needed<br>Xeon E-2276G – 6C/12T/3.8GHz/12MB/80W/DDR4-2666<br>Xeon E-2274G – 4C/8T/4.0GHz/8MB/83W/DDR4-2666<br>Xeon E-2246G – 6C/12T/3.6GHz/12MB/80W/DDR4-2666<br>Xeon E-2244G – 4C/8T/3.8GHz/8MB/71W/DDR4-2666<br>Xeon E-2236 – 6C/12T/3.4GHz/12MB/80W/DDR4-2666<br>Xeon E-2234 – 4C/8T/3.6GHz/8MB/71W/DDR4-2666<br>Xeon E-2226G – 6C/6T/3.4GHz/12MB/80W/DDR4-2666<br>Xeon E-2224G – 4C/4T/3.5GHz/8MB/71W/DDR4-2666<br>Xeon E-2224 – 4C/4T/3.4GHz/8MB/71W/DDR4-2666<br>Xeon E-2186G – 6C/12T/3.8GHz/12MB/95W/DDR4-2666 – 400W PSU needed<br>Xeon E-2174G – 4C/8T/3.8GHz/8MB/71W/DDR4-2666<br>Pentium Gold G5620 – 2C/4T/4.0GHz/4MB/54W/DDR4-2400<br>Core i9-9900 – 8C/16T/3.1GHz/16MB/65W/DDR4-2666<br>Core i7-9700K – 8C/8T/3.6GHz/12MB/95W/DDR4-2666 – 400W PSU needed<br>Core i7-9700 – 8C/8T/3.0GHz/12MB/65W/DDR4-2666<br>Core i7-8700 – 6C/12T/3.2GHz/12MB/65W/DDR4-2666<br>Core i5-9600K – 6C/6T/3.7GHz/9MB/95W/DDR4-2666 – 400W PSU needed<br>Core i5-9600 – 6C/6T/3.1GHz/9MB/65W/DDR4-2666<br>Core i5-9500 – 6C/6T/3.0GHz/9MB/65W/DDR4-2666<br>Core i5-9400 – 6C/6T/2.9GHz/9MB/65W/DDR4-2666<br>Core i5-8500 – 6C/6T/3.0GHz/9MB/65W/DDR4-2666<br>Core i3-9300 – 4C/4T/3.7GHz/8MB/62W/DDR4-2400<br>Core i3-9100 – 4C/4T/3.6GHz/6MB/65W/DDR4-2400<br>Core i3-8300 – 4C/4T/3.7GHz/8MB/62W/DDR4-2400<br>Core i3-8100 – 4C/4T/3.6GHz/6MB/65W/DDR4-2400 |
| 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 memeory |
| Expansion slots | Three PCIe 3.0 slots as following:<br>Slot 1 – PCIe 3.0 x16, full height, half length, links to CPU<br>Slot 2 – PCIe 3.0 x1, full height, full length, links to PCH<br>Slot 3 – PCIe 3.0 x16 (negotiable link width x4), full height, half length, links to PCH |
| Processor graphics | Integrated Intel UHD Graphics P630 in -G suffix Xeon processors, or Intel UHD Graphics 630 in Core i7, i5, i3, or Pentium processors.<br>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:<br>Quadro P400 – 2GB GDDR5 – 30W – 3x miniDP – 2<br>Quadro P620 – 2GB GDDR5 – 40W – 4x miniDP – 2<br>Quadro P1000 – 4GB GDDR5 – 50W – 4x miniDP – 2<br>Quadro P2000 – 5GB GDDR5 – 75W – 4x DP – 2<br>Quadro P2200 – 5GB GDDR5X – 75W – 4x DP – 2<br>Quadro P5000 – 16GB GDDR5X – 180W – DVI-D DL + 4x DP – 1<br>Quadro RTX 4000 – 8GB GDDR6 – 160W – 3x DP, 1x VirtualLink – 1<br>*Note: 2x Quadro P2000, Quadro P5000, or Quadro RTX 4000 needs 400W PSU* |

| Components | Specification |
|---|---|
| Storage Controller | Onboard Intel RST SATA RAID – Std – SATA 6Gb/s – HDD or SSD – 0/1/10/5<br>Onboard Intel RST PCIe RAID – Std – PCIe NVMe – M.2 PCIe SSD – 0/1 |
| Storage Support | 3.5" SATA HDD – SATA 6Gb/s – 7.2K – 1TB/2TB/4TB – 3<br>2.5" SATA HDD – SATA 6Gb/s – 7.2K – 500GB FIPS – 4<br>2.5" SATA SSD – SATA 6Gb/s – 256GB/512GB/1TB – 4<br>Optane Memory – PCIe NVMe – 32GB – 1, used with HDD/SSD<br>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<br>Bay 1 – Primary disk bay, 3.5" or 2.5"<br>Bay 2 – 2.5" SATA bay, cannot be available when 2nd Quadro P2000 is used<br>Bay 3 – Secondary disk bay, 3.5" or 2.5"<br>Bay 4 – 5.25" Flex bay, supports one of the following:<br>• Flex module for optional front eSATA/Thunderbolt/IEEE1394<br>• 3rd disk bay, 3.5" or 2.5", removable, via Front Access Storage Enclosure, using SATA 4 connector as eSATA mode<br>• 3rd disk bay, 3.5" or 2.5", via 5.25" to 3.5" HDD Kit<br>Bay 5 – 9mm Slim ODD bay<br>M.2 – 3x M.2 SSD (1 onboard, 2 via PCIe to M.2 adapter) |
| 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-loack, cable lock, Kensington lock, and pad lock |
| Intel vPro | Supports Intel vPro on Xeon models.<br>vPro also requires Wireless-AC 9560 if Wi-Fi is needed |
| Intel AMT | Intel Active Management Technology 12 on Xeon models,<br>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>1x Audio line-out<br>*Notes: DP needs Core, Pentium, or -G suffix Xeon processor* |
| 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 | Supports the following via cable:<br>1x COM. 1x Parallel. 2x PS/2. 1x DP or 1x HDMI. 2x USB 2.0<br>Supports the following via PCIe adapter:<br>4x COM. 2x USB 3.1 Type-C. 2x USB 3.0. 1x Thunderbolt.<br>*Notes: DP or HDMI needs Core, Pentium, or -G suffix Xeon processor* |
| 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) |

| Components | Specification |
|---|---|
| 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 Silver 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 www.thinkworkstations.com/isv-certifications/ |

*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*



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