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: Xeon E-2288G — 8C/16T/3.7GHz/16MB/95W/DDR4-2666 — 400W PSU needed Xeon E-2286G — 6C/12T/4.0GHz/12MB/95W/DDR4-2666 — 400W PSU needed Xeon E-2278G — 8C/16T/3.4GHz/16MB/80W/DDR4-2666 — 400W PSU needed Xeon E-2276G — 6C/12T/3.8GHz/12MB/80W/DDR4-2666 Xeon E-2274G — 4C/8T/4.0GHz/8MB/83W/DDR4-2666 Xeon E-2246G — 6C/12T/3.6GHz/12MB/80W/DDR4-2666 Xeon E-2244G — 4C/8T/3.8GHz/8MB/71W/DDR4-2666 Xeon E-2236 — 6C/12T/3.4GHz/12MB/80W/DDR4-2666 Xeon E-2234 — 4C/8T/3.6GHz/8MB/71W/DDR4-2666 Xeon E-2226G — 6C/6T/3.4GHz/12MB/80W/DDR4-2666 Xeon E-2224G — 4C/4T/3.5GHz/8MB/71W/DDR4-2666 Xeon E-2224 — 4C/4T/3.4GHz/8MB/71W/DDR4-2666 Xeon E-2186G — 6C/12T/3.8GHz/12MB/95W/DDR4-2666 — 400W PSU needed Xeon E-2174G — 4C/8T/3.8GHz/8MB/71W/DDR4-2666 Pentium Gold G5620 — 2C/4T/4.0GHz/4MB/54W/DDR4-2400 Core i9-9900 — 8C/16T/3.1GHz/16MB/65W/DDR4-2666 Core i7-9700K — 8C/8T/3.6GHz/12MB/95W/DDR4-2666 — 400W PSU needed Core i7-9700 — 8C/8T/3.0GHz/12MB/65W/DDR4-2666 Core i7-8700 — 6C/12T/3.2GHz/12MB/65W/DDR4-2666 Core i5-9600K — 6C/6T/3.7GHz/9MB/95W/DDR4-2666 — 400W PSU needed Core i5-9600 — 6C/6T/3.1GHz/9MB/65W/DDR4-2666 Core i5-9500 — 6C/6T/3.0GHz/9MB/65W/DDR4-2666 Core i5-9400 — 6C/6T/2.9GHz/9MB/65W/DDR4-2666 Core i5-8500 — 6C/6T/3.0GHz/9MB/65W/DDR4-2666 Core i3-9300 — 4C/4T/3.7GHz/8MB/62W/DDR4-2400 Core i3-9100 — 4C/4T/3.6GHz/6MB/65W/DDR4-2400 Core i3-8300 — 4C/4T/3.7GHz/8MB/62W/DDR4-2400 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: 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
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. 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: 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 P2200 — 5GB GDDR5X — 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 *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 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 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: • Flex module for optional front eSATA/Thunderbolt/IEEE1394 • 3rd disk bay, 3.5" or 2.5", removable, via Front Access Storage Enclosure, using SATA 4 connector as eSATA mode • 3rd disk bay, 3.5" or 2.5", via 5.25" to 3.5" HDD Kit Bay 5 — 9mm Slim ODD bay 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. 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 *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. 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 Supports the following via PCIe adapter: 4x COM. 2x USB 3.1 Type-C. 2x USB 3.0. 1x Thunderbolt. *Notes: DP or HDMI needs Core, Pentium, or -G suffix Xeon processor*
Temperature	Operating: 41 °F to 104 °F (10 °C to 35 °C) Non operating (no package): 14 °F to 140 °F (-10 °C to 60 °C) Non operating (with package): -40 °F to 140 °F (-40 °C to 60 °C)

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

Components	Specification
Altitude	Operating: -15.2 m (-50 ft) to 3048 m (10 000 ft). Storage: -15.2 m (-50 ft) to 10, 668 m (35 000 ft)
Humidity	Operating: 30%~90%, non-condensing 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. Climate Savers Computing Platinum and 80 PLUS Platinum qualified. 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

