ThinkStation P330 SFF Gen 2 30D1000UUS

Product
ThinkStation P330 SFF Gen 2

Region
NA

Country
USA

Machine Type
30D1

TopSeller
TopSeller

Processor
Xeon E-2234 4C/8T/3.6GHz/8MB/71W/DDR4-2666

Memory
1x 16GB UDIMM DDR4-2666 Non-ECC

Processor Graphics
None

Discrete Graphics Card
1x NVIDIA Quadro P1000 4GB 4x MiniDP

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

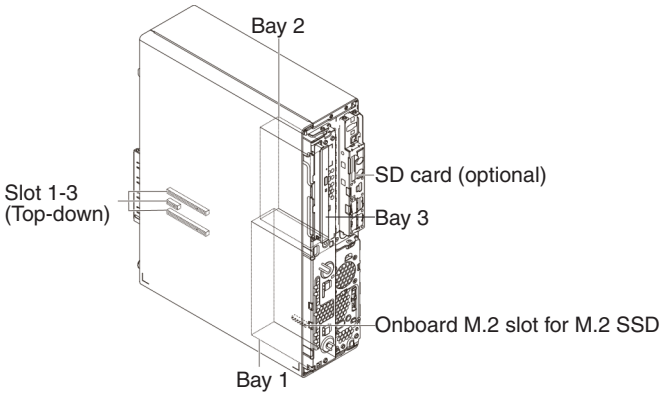
Chassis Intrusion Switch
Chassis Intrusion Switch

ThinkStation P330 SFF Gen 2 (30D1 and 30D2) Platform Specifications

Components	Specification
Form factor	8.4L mini-tower
Dimensions	Height: 343.5 mm (13.5 in). Width: 92.5 mm (3.6 in). Depth: 305.6 mm (12 in)
Weight	Maximum configuration: 13.23 lb (6.0kg)
Processor	Supports one of the following processor: • Xeon E-2278G 8C/16T/3.4GHz/16MB/80W/DDR4-2666 (260W 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-2174G 4C/8T/3.8GHz/8MB/71W/DDR4-2666 • Core i9-9900 8C/16T/3.1GHz/16MB/65W/DDR4-2666 • Core i7-9700 8C/8T/3.0GHz/12MB/65W/DDR4-2666 • Core i7-8700 6C/12T/3.2GHz/12MB/65W/DDR4-2666 • 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 • Pentium Gold G5620 2C/4T/4.0GHz/4MB/54W/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, low profile, links to CPU Slot 2: PCIe 3.0 x1, low profile, links to PCH Slot 3: PCIe 3.0 x16 (negotiable link width x4), low profile, links to PCH
Processor graphics	Integrated Intel UHD Graphics P630 in -G suffix Xeon processors, or Intel UHD Graphics 630 in Core 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 card	Up to two PCIe 3.0 x16 slots for discrete graphics adapter (Slot 1 and 3). Supports the following graphics adapters: Adapter: Quadro P400 — Cores: 256 — Memory: 2GB GDDR5 — Power: 30W — Connectors: 3x miniDP — Max qty: 2 Adapter: Quadro P620 — Cores: 512 — Memory: 2GB GDDR5 — Power: 40W — Connectors: 4x miniDP — Max qty: 2 Adapter: Quadro P1000 — Cores: 640 — Memory: 4GB GDDR5 — Power: 47W — Connectors: 4x miniDP — Max qty: 2
Storage Controller	Storage Controller: Onboard Intel RST SATA RAID — Type: Std — Interface: SATA 6Gb/s — Disk Type: HDD or SSD — RAID: 0/1 Storage Controller: Onboard Intel RST PCIe RAID — Type: Std — Interface: PCIe NVMe — Disk Type: M.2 PCIe SSD — RAID: 0/1
Storage Support	Disk Type: 3.5" SATA HDD — Interface: SATA 6Gb/s — RPM: 7.2K — Offering: 1TB/2TB/4TB — Max Qty: 1 Disk Type: 2.5" SATA HDD — Interface: SATA 6Gb/s — RPM: 7.2K — Offering: 500GB FIPS — Max Qty: 2 Disk Type: 2.5" SATA SSD — Interface: SATA 6Gb/s — RPM: — Offering: 256GB/512GB/1TB — Max Qty: 2 Disk Type: Optane Memory — Interface: PCIe NVMe — RPM: — Offering: 32GB — Max Qty: 1, used with HDD/SSD Disk Type: M.2 PCIe SSD — Interface: PCIe NVMe — RPM: — Offering: 256GB/512GB/1TB — Max Qty: 3
Storage bay	Up to 3 bays with two disk bays and one slim optical bay: Bay 1: Primary 3.5" SATA bay Bay 2: 2.5" SATA bay (Optional) Bay 3: 9mm Slim ODD bay M.2: 3x M.2 SSD (1 onboard, 2 via PCIe to M.2 adapter)

Components	Specification
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
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 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)
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 210W or 260W power supply. 210W is 100V - 240V, 85% PSU, Climate Savers Computing Bronze and 80 PLUS Bronze qualified. 260W is 100V - 240V, 92% PSU, Climate Savers Computing Platinum and 80 PLUS Platinum qualified
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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