

Hyper SuperServer SYS-220H-TN24R

2U DP Hyper with 24 hot-swap NVMe/SAS/SATA bays and PCIe 4.0



More details here

Key Applications

Virtualization, Software-defined Storage, AI Inference and Machine Learning, Cloud Computing, Enterprise Server,

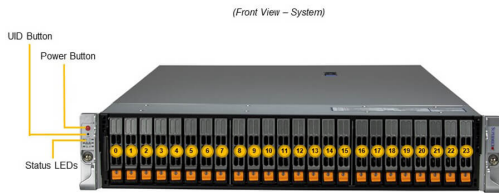
Key Features

- Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable Processors;
- 32 DIMM Slots; Up to 8TB DRAM; Up to 8TB Intel® Optane™ Persistent Memory (up to 12TB with DRAM); 3200/2933/2666 ECC DDR4 LRDIMM; RDIMM; Intel® Optane™ Persistent Memory 200 series;
- Optional PCIe slot configurations up to 8 PCIe 4.0 x8 or 4 PCIe 4.0 x16 slots with support for double-width GPU/Accelerator cards;
- Flexible networking options with up to 2 AIOM networking slots (OCP NIC 3.0 compatible);
- 24x 2.5" hot-swap NVMe/SATA/SAS drive bays; 2x internal M.2 NVMe/SATA drive slots; Optional RAID support via storage add-on card;
- 4 heavy duty hot-swap fans with optimal fan speed control;



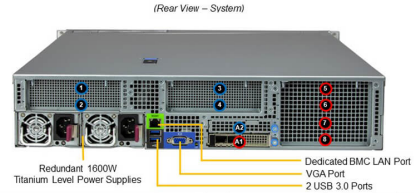
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|--------------------------|---|
| Form Factor | 2U Rackmount Enclosure: 437 x 88.9 x 760mm (17.2" x 3.5" x 29.9") Package: 605 x 263 x 1107mm (23.8" x 10.4" x 43.6") |
| Processor | Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 40C/80T; Up to 60MB Cache per CPU |
| GPU | Up to 4 double-width GPUs |
| System Memory | Slot Count: 32 DIMM slots Max Memory (2DPC): Up to 8TB 3200MT/s ECC DDR4 Supports Intel® Optane™ persistent memory 200 series |
| Drive Bays Configuration | Default: Total 24 bays • 24 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays (*NVMe/SAS/SATA support may require additional storage controller and/or cables) M.2: 2 M.2 NVMe/SATA slots (M-key 2280/22110) |
| Expansion Slots | Default* • 8 PCIe 4.0 x8 (in x16) FH/10.5"L slots • 2 PCIe 4.0 x16 AIOM slots (OCP 3.0 compatible) Option A* • 2 PCIe 4.0 x8 (in x16) FH/10.5"L slots • 3 PCIe 4.0 x16 FH/10.5"L slots • 2 PCIe 4.0 x16 AIOM slots (OCP 3.0 compatible) (*Requires additional parts, please see the optional parts list for details. For more details on PCIe slot configuration options, please refer to the system callout images above.) |
| On-Board Devices | SATA: SATA (6Gbps) ; RAID 0/1/5/10 support NVMe: NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required) Network Connectivity: 2 RJ45 1GbE with Intel® I350-AM2 (optional) 4 RJ45 1GbE with Intel® I350-AM4 (optional) 4 SFP 1GbE with Intel® I350-AM4 (optional) 2 RJ45 10GBASE-T with Intel® X550-AT2 (optional) 2 SFP+ 10GbE with Intel® X710-BM2 (optional) 4 SFP+ 10GbE with Intel® XL710-BM1 (optional) 4 SFP+ 10GbE with Intel® X710-TM4 (optional) 2 SFP28 25GbE with Broadcom® BCM57414 (optional) 4 SFP28 25GbE (optional) 2 QSFP28 100GbE with Broadcom® BCM57508 (optional) |
| Input / Output | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port |

USB: 2 USB 3.0 ports(rear)
Video: 1 VGA port



| Slot | Description |
|---------|--|
| 1 – 11 | 2.5" Hot-swap NVMe/SAS3/SATA3 Drive Bays (NVMe from CPU1)* |
| 12 – 22 | 2.5" Hot-swap NVMe/SAS3/SATA3 Drive Bays (NVMe from CPU2)* |

*NVMe, SAS3, or SATA3 support requires additional parts in optional parts list



| Slot Description | Option 1* | Option 2* | Option 3* |
|------------------|-----------------------|---------------|--|
| 1 | PCI-E 4.0 x8 (in x16) | PCI-E 4.0 x16 | 2x Hot-Swap 2.5" NVMe Drive Bays (CPU 1) |
| 2 | PCI-E 4.0 x8 (in x16) | --- | --- |

| Slot Description | Option 1* | Option 2* | Option 3* |
|------------------|-----------------------|---------------|--|
| 3 | PCI-E 4.0 x8 (in x16) | PCI-E 4.0 x16 | 2x Hot-Swap 2.5" NVMe Drive Bays (CPU 2) |
| 4 | PCI-E 4.0 x8 (in x16) | --- | --- |

| Slot Description | Option 1* | Option 2* | Option 3* |
|------------------|-----------------------|-----------------------|---------------|
| 5 | PCI-E 4.0 x8 (in x16) | PCI-E 4.0 x16 | PCI-E 4.0 x16 |
| 6 | PCI-E 4.0 x8 (in x16) | --- | --- |
| 7 | PCI-E 4.0 x8 (in x16) | PCI-E 4.0 x8 (in x16) | PCI-E 4.0 x16 |
| 8 | PCI-E 4.0 x8 (in x16) | PCI-E 4.0 x8 (in x16) | --- |

| Slot Description | |
|------------------|-------------------------------------|
| A1 | AIOM / OCP NIC 3.0 Slot |
| A2 | (Optional) AIOM / OCP NIC 3.0 Slot* |

*Requires additional parts in optional parts list



| | |
|-----------------------|--|
| System Cooling | Fans: Up to 4x 8cm heavy duty fans with optimal fan speed control Air Shroud: 2 Air Shrouds |
| Power Supply | 2x 1600W Redundant Titanium Level (96%) Hot-plug power supplies |
| System BIOS | BIOS Type: AMI 256MB SPI Flash |
| Management | SuperCloud Composer®; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New! |
| PC Health Monitoring | CPU: Monitors for CPU Cores, Chipset Voltages, Memory FAN: Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors Status monitor for speed control Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors |
| Dimensions and Weight | Weight: Gross Weight: 66 lbs (30 kg) Net Weight: 40 lbs (18.2 kg) Available Color: N/A |
| Operating Environment | Name: A2 Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -30°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 80% (max 21° DP; non-condensing) Non-operating Relative Humidity: 8% to 90% (max 38° DP; non-condensing) |
| Motherboard | Super X12DHM-6 |
| Chassis | CSE-HS219-R1K63P |