

# 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;

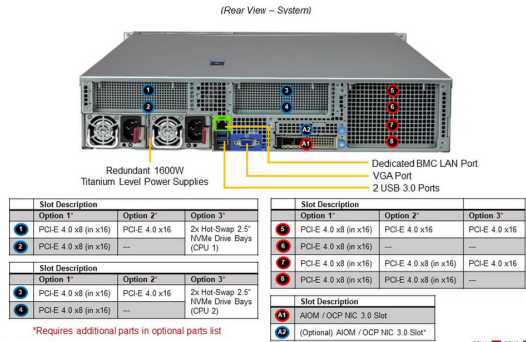
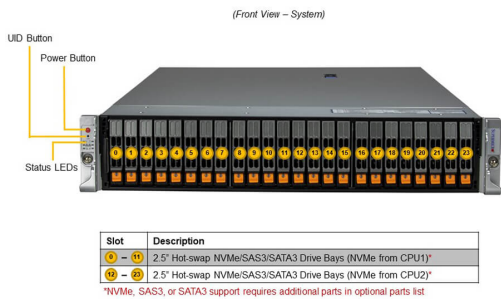


|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor              | 2U Rackmount<br>Enclosure: 437 x 88.9 x 760mm (17.2" x 3.5" x 29.9")<br>Package: 605 x 263 x 1107mm (23.8" x 10.4" x 43.6")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Processor                | Dual Socket P+ (LGA-4189)<br>3rd Gen Intel® Xeon® Scalable processors<br>Up to 40C/80T; Up to 60MB Cache per CPU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| GPU                      | Up to 4 double-width GPUs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| System Memory            | Slot Count: 32 DIMM slots<br>Max Memory (2DPC): Up to 8TB 3200MT/s ECC DDR4<br>Supports Intel® Optane™ persistent memory 200 series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Drive Bays Configuration | Default: Total 24 bays <ul style="list-style-type: none"> <li>• 24 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays</li> </ul> (*NVMe/SAS/SATA support may require additional storage controller and/or cables)<br>M.2: 2 M.2 NVMe/SATA slots (M-key 2280/22110)                                                                                                                                                                                                                                                                                                                                                                                      |
| Expansion Slots          | Default* <ul style="list-style-type: none"> <li>• 8 PCIe 4.0 x8 (in x16) FH/10.5"L slots</li> <li>• 2 PCIe 4.0 x16 AIOM slots (OCP 3.0 compatible)</li> </ul> Option A* <ul style="list-style-type: none"> <li>• 2 PCIe 4.0 x8 (in x16) FH/10.5"L slots</li> <li>• 3 PCIe 4.0 x16 FH/10.5"L slots</li> <li>• 2 PCIe 4.0 x16 AIOM slots (OCP 3.0 compatible)</li> </ul> (*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<br>NVMe: NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required)<br>Chipset: Intel® C621A<br>Network Connectivity: 2 RJ45 1GbE with Intel® I350-AM2 (optional)<br>4 RJ45 1GbE with Intel® I350-AM4 (optional)<br>4 SFP 1GbE with Intel® I350-AM4 (optional)<br>2 RJ45 10GBASE-T with Intel® X550-AT2 (optional)<br>2 SFP+ 10GbE with Intel® X710-BM2 (optional)<br>4 SFP+ 10GbE with Intel® XL710-BM1 (optional)<br>4 SFP+ 10GbE with Intel® X710-TM4 (optional)<br>2 SFP28 25GbE with Broadcom® BCM57414 (optional)<br>4 SFP28 25GbE (optional)<br>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

---



|                       |                                                                                                                                                                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Cooling        | <p>Fans: Up to 4x 8cm heavy duty fans with optimal fan speed control</p> <p>Air Shroud: 2 Air Shrouds</p>                                                                                                                                                                                                   |
| Power Supply          | 2x 1600W Redundant Titanium Level (96%) Hot-plug power supplies                                                                                                                                                                                                                                             |
| System BIOS           | BIOS Type: AMI 256MB SPI Flash                                                                                                                                                                                                                                                                              |
| Management            | <p>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!</p>                                                           |
| PC Health Monitoring  | <p>CPU: Monitors for CPU Cores, Chipset Voltages, Memory</p> <p>FAN: Fans with tachometer monitoring</p> <p>Status monitor for speed control</p> <p>Pulse Width Modulated (PWM) fan connectors</p> <p>Temperature: Monitoring for CPU and chassis environment</p> <p>Thermal Control for fan connectors</p> |
| Dimensions and Weight | <p>Weight: Gross Weight: 66 lbs (30 kg)</p> <p>Net Weight: 40 lbs (18.2 kg)</p> <p>Available Color: N/A</p>                                                                                                                                                                                                 |
| Operating Environment | <p>Name: A2</p> <p>Operating Temperature: 10°C to 35°C (50°F to 95°F)</p> <p>Non-operating Temperature: -30°C to 60°C (-40°F to 140°F)</p> <p>Operating Relative Humidity: 8% to 80% (max 21° DP; non-condensing)</p> <p>Non-operating Relative Humidity: 8% to 90% (max 38° DP; non-condensing)</p>        |
| Motherboard           | <a href="#">Super X12DHM-6</a>                                                                                                                                                                                                                                                                              |
| Chassis               | CSE-HS219-R1K63P                                                                                                                                                                                                                                                                                            |