

# Hyper SuperServer SYS-221H-TNR



More details here

## Key Applications

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

## Key Features

- Dual Socket E (LGA-4677) 4th Gen Intel® Xeon® Scalable processors;
- 32 DIMM slots supporting up to 8TB of memory; RDIMMs up to DDR5-4800;
- Optional PCIe slot configurations up to 8 PCIe 5.0 x8 or 4 PCIe 5.0 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);
- 8x 2.5" hot-swap NVMe/SATA/SAS drive bays; Optional 8x 2.5" hot-swap NVMe/SAS/SATA 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  
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

4th Gen Intel® Xeon® Scalable processors  
Dual Socket LGA-4677 (Socket E) supported  
4 UPI Intel Xeon CPU Max Series with high bandwidth memory (HBM)  
(Supports up to 350W TDP CPUs (Aircooled), Supports up to 350W TDP CPUs (Liquid Cooled))

### System Memory

32 DIMM slots  
Up to 8TB ECC RDIMM, DDR5-4800MHz

### Drive Bays

8x 2.5" hot-swap NVMe/SATA/SAS drive bays;  
Optional RAID support via RAID Controller AOC

### Expansion Slots

4 (Optional) PCIe 5.0 x16 or x8 FH, 10.5"L slot(s)  
4 (Optional) PCIe 5.0 x8 FH, 10.5"L slot(s)

### On-Board Devices

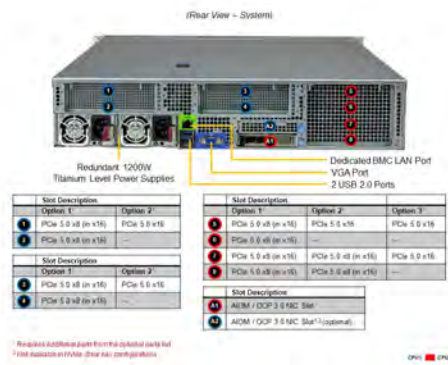
Chipset: Intel® C741  
Network Connectivity: 2x 1GbE BaseT with Intel® i350-AM2 (optional)  
4x 1GbE BaseT or 4x 1GbE SFP with Intel® i350-AM4 (optional)  
2x 10GbE BaseT with Intel® X550-AT2 (optional)  
2x 10GbE SFP+ with Intel® X710-BM2 (optional)  
4x 10GbE SFP+ with Intel® XL710-BM1 (optional)  
4x 10GbE RJ45/SFP+ with Intel® X710-TM4 (optional)  
2x 25GbE SFP28 with Broadcom® BCM57414 (optional)  
4x 25GbE RJ45/SFP28 with Mellanox® CX-4 Lx EN Intel® X550-AT2 (optional)  
2x 100GbE QSFP28 with Broadcom® BCM57508 (optional)  
IPMI: Support for Intelligent Platform Management Interface v.2.0  
IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

### Input / Output

LAN: 1 RJ45 Dedicated BMC LAN port  
USB: 2 USB 2.0 port(s) (2 rear)  
Video: 1 VGA port(s)



\*NVMe, SAS, or SATA support requires additional parts in optional parts list



Requires additional parts from the optional parts list  
 \* Hot Swap only in NVMe form factor configurations



System Cooling	4x 8cm heavy duty fan(s) Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)
Power Supply	1U 800W/1200W Redundant Titanium CRPS w/PMBus power supply Dimension (W x H x L): 73.5 x 40 x 265 mm Output Type: 25 Pairs Gold Finger Connector
System BIOS	BIOS Type: AMI 256MB SPI Flash
Management	SuperDoctor® 5; Watch Dog; NMI; SUM; KVM with dedicated LAN; SPM; Intel® Node Manager; SSM; IPMI 2.0; Redfish API
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory FAN: Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors
Dimensions and Weight	Height: 3.5" (88.9 mm) Width: 17.2" (437 mm) Depth: 29.9" (760 mm) Gross Weight: 66 lbs (30 kg) Net Weight: 40 lbs (18.2 kg) Packaging: 10.4" (H) x 23.8" (W) x 43.6" (D) Available Color: N/A
Operating Environment	Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
Motherboard	<a href="#">Super X13DEM</a>
Chassis	CSE-HS219-R1K24P