

# Hyper SuperServer SYS-221H-TNR



More details here

## Key Applications

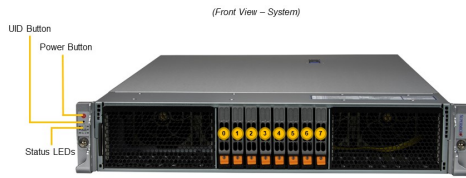
Virtualization, Software-defined Storage, AI Inference and Machine Learning, Cloud Computing, Enterprise Server,

## 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;

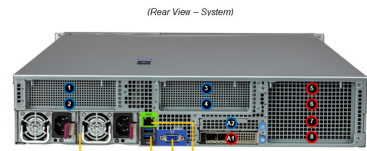


<b>Form Factor</b>	2U Rackmount Enclosure: 437 x 88.9 x 760mm (17.2" x 3.5" x 29.9") Package: 605 x 263 x 1107mm (23.8" x 10.4" x 43.6")
<b>Processor</b>	4th Gen Intel® Xeon® Scalable processors Dual Socket LGA-4677 (Socket E) supported 4 UPI Intel Xeon CPU Max Series with high bandwidth memory (HBM) (Supports up to 350W TDP CPUs (Air-Cooled), Supports up to 350W TDP CPUs (Liquid-Cooled))
<b>System Memory</b>	32 DIMM slots Up to 8TB ECC RDIMM, DDR5-4800MHz
<b>Drive Bays</b>	8x 2.5" hot-swap NVMe/SATA/SAS drive bays (Configurable option for 16x 2.5" hot-swap NVMe/SAS/SATA drive bays. NVMe, SATA, or SAS support requires additional parts. Please see the Optional Parts list.) 2 M.2 NVMe OR 2 M.2 SATA3 M-Key, 2280/2210
<b>Expansion Slots</b>	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)
<b>On-Board Devices</b>	SATA: SATA3 (6Gbps); RAID 0/1/5/10 support NVMe: NVMe; RAID 0/1/5/10 support (Intel® VROC RAID key required) 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
<b>Input / Output</b>	LAN: 1 RJ45 Dedicated BMC LAN port USB: 2 USB 2.0 port(s) (2 rear) Video: 1 VGA port(s)



Slot	Description
1	2.5" Hot-swap iNVMe/SAS/SATA3 Drive Bays (iNVMe from CPU2) <sup>1</sup>

<sup>1</sup>iNVMe, SAS3, or SATA3 support requires additional parts in optional parts list



Slot Description		Slot Description		Slot Description	
Option 1	Option 2	Option 1	Option 2	Option 3	Option 3
1	PCIe 5.0 x8 (in x16)	1	PCIe 5.0 x16	1	PCIe 5.0 x16
2	PCIe 5.0 x8 (in x16)	2	—	2	—
Slot Description		Slot Description		Slot Description	
Option 1	Option 2	Option 1	Option 2	Option 1	Option 2
1	PCIe 5.0 x8 (in x16)	1	PCIe 5.0 x16	1	PCIe 5.0 x16
2	PCIe 5.0 x8 (in x16)	2	—	2	—
Slot Description		Slot Description		Slot Description	
Option 1	Option 2	Option 1	Option 2	Option 1	Option 2
1	ACM / OCP 3.0 M.2 Slot	1	ACM / OCP 3.0 M.2 Slot	1	ACM / OCP 3.0 M.2 Slot
2	ACM / OCP 3.0 M.2 Slot <sup>1</sup> (optional)	2	—	2	—

<sup>1</sup>Requires additional parts from the optional parts list  
<sup>2</sup>Not available in iNVMe drive bay 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