

# Hyper SuperServer SYS-222H-TN

2U Hyper with 8 hot-swap 2.5" NVMe/SAS/SATA bays and 4 PCIe 5.0 slots + up to 2 PCIe 5.0 x16 AIOM slots



## Key Applications

Virtualization, Software-defined Storage, High Performance Computing, Cloud Computing, Enterprise Server,

## Key Features

- Dual Intel® Xeon® 6 6700 series processors with E-cores;
- 32 DIMM slots supporting up to 4TB of memory;
- 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 with optional configurations for 16x/24x 2.5" hot-swap NVMe/SAS/SATA drive bays; 2x internal M.2 NVMe drive slots; Optional RAID support via storage add-on card;



<b>Form Factor</b>	2U Rackmount Enclosure: 438.4 x 88 x 755.2mm (17.3" x 3.5" x 29.73") Package: 605 x 257 x 947mm (23.82" x 10.12" x 37.28")
<b>Processor</b>	Dual Socket E2 (LGA-4710) Intel® Xeon® 6700 series processors with E-cores Up to 144C/144T; Up to 108MB Cache per CPU
<b>GPU</b>	Up to 4 double-width or 8 single-width GPUs
<b>System Memory</b>	Slot Count: 32 DIMM slots Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 4TB 5200MT/s ECC DDR5 RDIMM
<b>Drive Bays Configuration</b>	Default: Total 8 bays <ul style="list-style-type: none"> <li>• 8 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays</li> </ul> Option A: Total 16 bays <ul style="list-style-type: none"> <li>• 16 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays</li> </ul> Option B: 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, please see the optional parts list for details) M.2: 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 2280/22110)
<b>Expansion Slots</b>	PCI-Express (PCIe) Configuration: Option A* <ul style="list-style-type: none"> <li>• 4 PCIe 5.0 x16 FH/10.5"L double-width slots</li> <li>• 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)</li> <li>• 1 PCIe 5.0 x8 AIOM slot (OCP 3.0 compatible)</li> </ul> Option B* <ul style="list-style-type: none"> <li>• 8 PCIe 5.0 x8 (in x16) FH/10.5"L slots</li> <li>• 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)</li> <li>• 1 PCIe 5.0 x8 AIOM slot (OCP 3.0 compatible)</li> </ul> CXL Support: Up to 4 CXL 2.0 x16/x8 devices
<b>On-Board Devices</b>	NVMe: NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required) Chipset: System on Chip Network Connectivity: Via AIOM
<b>Input / Output</b>	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 3.0 ports(rear) 2 USB 3.0 ports(Header) Video: 1 VGA port

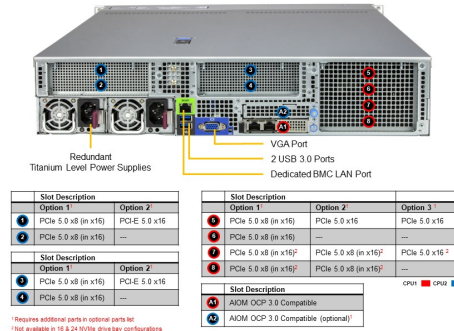
(Front View – System)



Drive Bay	Description
1 – 3	4 Hot-swap 2.5" 10k/6e/SAS/SATA3 Drive Bays (10k/6e from CPU1)
4 – 6	4 Hot-swap 2.5" 10k/6e/SAS/SATA3 Drive Bays (10k/6e from CPU2)

\*10k/6e, SAS1, or SATA3 support requires additional parts in optional parts list

(Rear View – System)



Slot Description	Option 1	Option 2	Option 3
Option 1	PCIe 5.0 x8 (in x16)	PCI-E 5.0 x16	PCIe 5.0 x16
Option 2	PCIe 5.0 x8 (in x16)	—	—
Option 3	PCIe 5.0 x8 (in x16) <sup>2</sup>	PCIe 5.0 x8 (in x16) <sup>2</sup>	PCIe 5.0 x16 <sup>2</sup>
Option 4	PCIe 5.0 x8 (in x16)	—	—
Option 5	PCIe 5.0 x8 (in x16)	—	—

<sup>1</sup>Requires additional parts in optional parts list  
<sup>2</sup>Not available in 16 & 24 NVMe drive bay configurations

System Cooling	Fans: 4x 8cm heavy duty fans with optimal fan speed control Air Shroud: 2 Air Shrouds Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)
Power Supply	2x 1200W Redundant (1 + 1) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 64MB SPI Flash
Management	SuperCloud Composer; Supermicro Server Manager (SSM); 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 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	Weight: Gross Weight: 66 lbs (30 kg) Net Weight: 40 lbs (18.2 kg) Available Color: Silver
Operating Environment	Operating Temperature: 10°C to 35°C (50°F to 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 X14DBM-SP</a>
Chassis	<a href="#">CSE-HS219-R000NP</a>