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

More details here

Key Applications

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

Key Features

- Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores;
- 32 DIMM slots supporting up to 8TB 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;

Form Factor	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")
Processor	Dual Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores P-cores: Up to 86C/172T; Up to 336MB Cache per CPU E-cores: Up to 144C/144T; Up to 108MB Cache per CPU
GPU	Max GPU Count: Up to 4 double-width or 8 single-width GPUs Supported GPU: NVIDIA PCIe: H100 NVL, L40S
System Memory	Slot Count: 32 DIMM slots Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM Max Memory (1DPC): Up to 1TB 8000MT/s ECC DDR5 MRDIMM (P-core only) Max Memory (2DPC): Up to 8TB 5200MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 8 bays • 8 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays Option A: Total 16 bays • 16 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays Option B: 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, please see the optional parts list for details) M.2: 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 2280/22110)
Expansion Slots	PCI-Express (PCIe) Configuration: Option A* • 4 PCIe 5.0 x16 FH/10.5"L double-width slots • 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) • 1 PCIe 5.0 x8 AIOM slot (OCP 3.0 compatible) Option B* • 8 PCIe 5.0 x8 (in x16) FH/10.5"L slots • 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) • 1 PCIe 5.0 x8 AIOM slot (OCP 3.0 compatible) CXL Support: Up to 4 CXL 2.0 x16/x8 devices
On-Board Devices	NVMe: NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required) Chipset: System on Chip Network Connectivity: Via AIOM
Input / Output	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

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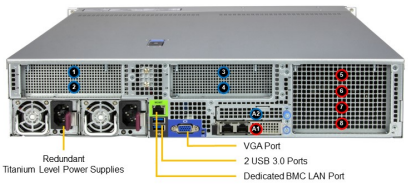
(Front View – System)

Drive Bay	Description
0 – 3	4 Hot-swap 2.5" NVMe/SAS3/SATA3 Drive Bays (NVMe from CPU1)[1]
4 – 7	4 Hot-swap 2.5" NVMe/SAS3/SATA3 Drive Bays (NVMe from CPU2)[1]

[1]NVMe, SAS3, or SATA3 support requires additional parts in optional parts list

(Rear View – System)



Slot Description	Option 1[1]	Option 2[1]
1	PCIe 5.0 x8 (in x16)	PCI-E 5.0 x16
2	PCIe 5.0 x8 (in x16)	---

Slot Description	Option 1[1]	Option 2[1]
3	PCIe 5.0 x8 (in x16)	PCI-E 5.0 x16
4	PCIe 5.0 x8 (in x16)	---

Slot Description	Option 1[1]	Option 2[1]	Option 3 [1]
5	PCIe 5.0 x8 (in x16)	PCIe 5.0 x16	PCIe 5.0 x16
6	PCIe 5.0 x8 (in x16)	---	---
7	PCIe 5.0 x8 (in x16)[2]	PCIe 5.0 x8 (in x16)[2]	PCIe 5.0 x16 [2]
8	PCIe 5.0 x8 (in x16)[2]	PCIe 5.0 x8 (in x16)[2]	---

CPU1 CPU2

Slot Description	
A1	AIOM OCP 3.0 Compatible
A2	AIOM OCP 3.0 Compatible (optional)[1]

[1] Requires additional parts in optional parts list
[2] Not available in 16 & 24 NVMe drive bay configurations

System Cooling	Fans: Up to 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%) Hot-plug 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	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 X14DBM-SP**
Chassis	**CSE-HS219-R000NP**

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