

# Hyper SuperServer SYS-122H-TN

1U Hyper with 8 hot-swap 2.5" NVMe/SAS/SATA bays and 3 PCIe 5.0 x16 + 1 PCIe 5.0 x16 AIOM slot



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;
- 3 PCIe 5.0 x16 slots with support for Network/Storage/GPU/Accelerator cards;
- Flexible networking options with 1 AIOM networking slot (OCP NIC 3.0 compatible);
- 8x 2.5" hot-swap NVMe/SATA/SAS drive bays; Optional 4x 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              | 1U Rackmount<br>Enclosure: 438.4 x 43.6 x 743.38mm (17.3" x 1.71" x 29.27")<br>Package: 604.8 x 203 x 950mm (23.81" x 7.99" x 37.4")  |
| Processor                | Dual Socket E2 (LGA-4710)<br>Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores<br>P-cores: Up to 86C/172T; Up to 336MB Cache per CPU<br>E-cores: Up to 144C/144T; Up to 108MB Cache per CPU  |
| GPU                      | Up to 1 double-width or 3 single-width GPUs   |
| System Memory            | Slot Count: 32 DIMM slots<br>Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM<br>Max Memory (1DPC): Up to 1TB 8000MT/s ECC DDR5 MRDIMM (P-core only)<br>Max Memory (2DPC): Up to 8TB 5200MT/s ECC DDR5 RDIMM  |
| Drive Bays Configuration | 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 12 bays <ul style="list-style-type: none"> <li>• 12 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)<br>M.2: 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 2280/22110) |
| Expansion Slots          | Default <ul style="list-style-type: none"> <li>• 1 PCIe 5.0 x16 FHHL slot</li> <li>• 2 PCIe 5.0 x16 FH/10.5" L slots</li> <li>• 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)</li> </ul>  |
| On-Board Devices         | NVMe: NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required)<br>Chipset: System on Chip<br>Network Connectivity: Via AIOM   |
| Input / Output           | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>USB: 2 USB 3.0 ports(rear)<br>1 USB 3.0 port(front)<br>Video: 1 VGA port  |

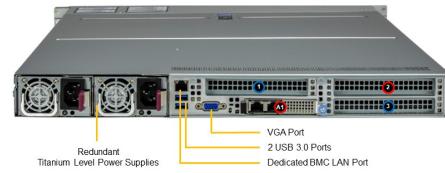
(Front View – System)



| Drive Bay | Description  |
|-----------|--|
| ① – ②     | 4 Hot-swap 2.5" NVMe/SAS3/SATA3 Drive Bays (NVMe from CPU1)  |
| ③ – ④     | 4 Hot-swap 2.5" NVMe/SAS3/SATA3 Drive Bays (NVMe from CPU2)* |

\*NVMe, SAS3, or SATA3 support requires additional parts in optional parts list

(Rear View – System)



| Slot Description             |
|------------------------------|
| ① PCIe 5.0 x16 FH, 6.5" L    |
| ② ③ PCIe 5.0 x16 FH, 10.5" L |
| ④ AIGOM OCP 3.0 Compatible   |

CPU1 CPU2

**System Cooling**

Fans: Up to 8 counter-rotating 40x40x56mm Fan(s)

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

Pulse Width Modulated (PWM) fan connectors

Status monitor for speed control

Temperature: Monitoring for CPU and chassis environment

Thermal Control for fan connectors

**Dimensions and Weight**

Weight: Gross Weight: 41 lbs (18.6 kg)

Net Weight: 18.7 lbs (8.5 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-HS119-R000NP2\*\*](#)