

Hyper SuperServer SYS-121H-TNR

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, AI Inference and Machine Learning, Cloud Computing, Enterprise Server,

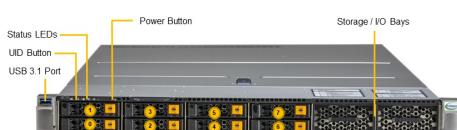
Key Features

- Dual Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors;
- 32 DIMM slots supporting up to 8TB of memory; RDIMMs up to DDR5-5600;
- 3 PCIe 5.0 x16 slots with support for 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/SATA drive slots; Optional RAID support via storage add-on card;
- 8 heavy duty hot-swap fans with optimal fan speed control;



Form Factor	1U Rackmount Enclosure: 437 x 43 x 747mm (17.2" x 1.7" x 29.4") Package: 605 x 206 x 1032mm (23.8" x 8.1" x 40.6")
Processor	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors Supports Intel Xeon CPU Max Series with high bandwidth memory (HBM) Up to 64C/128T; Up to 320MB Cache per CPU
GPU	Max GPU Count: Up to 1 double-width or 3 single-width GPUs Supported GPU: NVIDIA PCIe: H100, RTX A5000, RTX A4000, L40S, L4
System Memory	Slot Count: 32 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 8TB 4400MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 8 bays <ul style="list-style-type: none"> • 8 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays Option A: Total 12 bays <ul style="list-style-type: none"> • 12 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 NVMe/SATA slots (M-key 2280/22110)
Expansion Slots	PCI-Express (PCIe) Configuration: Default <ul style="list-style-type: none"> • 1 PCIe 5.0 x16 FHHL slot • 2 PCIe 5.0 x16 FH/10.5" L slots • 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) M.2: 2 M.2 NVMe/SATA slots (B+M-key 2280/22110)
On-Board Devices	SATA: SATA (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: Via AIOM
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 2.0 ports(rear) 1 USB 3.0 port(front) Video: 1 VGA port

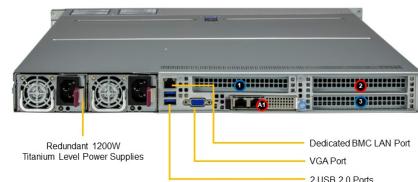
(Front View – System)



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

*NVMe, SAS3 or SATA3 support requires additional parts from the optional parts list

(Rear View – System)



Slot	Description
①	AIOM / OCZ 3.0 NIC slot
②	PCIe 5.0 x16 slot (FH, 6.6L)
③	PCIe 5.0 x16 slot (FH, 10.5L)
④	PCIe 5.0 x16 slot (FH, 10.5L)

CPU 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 Titanium Level (96%) Hot-plug power supplies

System BIOS

BIOS Type: AMI 64MB SPI Flash

Management

SuperCloud Composer®; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); 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: 49 lbs (22.2 kg)

Net Weight: 34 lbs (15.4 kg)

Available Color: N/A

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 X13DEM](#)

Chassis

[CSE-HS119-R1K24P2](#)