

# 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

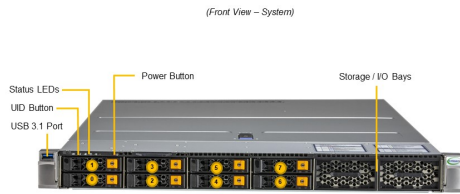
Virtualization, Software-defined Storage, AI Inference and Machine Learning, Cloud Computing, Enterprise Server,

## 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/SATA/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;

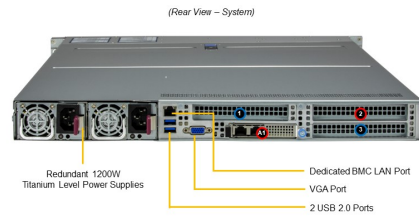


Form Factor	1U Rackmount Enclosure: 437 x 43 x 747mm (17.2" x 1.7" x 29.4") Package: 605 x 206 x 1032mm (23.8" x 8.1" x 40.6")
Processor	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon®/4th Gen Intel® Xeon® Scalable processors Supports Intel Xeon CPU Max Series with high bandwidth memory (HBM) Up to 64C/128T; 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, L4, L40S, RTX A4000, RTX A5000
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"> <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) 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"> <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> 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) 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



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

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



Slot	Description
A1	A1OM / OCP 3.0 IBC slot
1	PCIe 5.0 x16 slot (FH, 6.6'L)
2	PCIe 5.0 x16 slot (FH, 10.5'L)
3	PCIe 5.0 x16 slot (FH, 10.5'L)

<b>System Cooling</b>	Fans: Up to 8 counter-rotating 40x40x56mm Fan(s) Air Shroud: 2 Air Shrouds Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)
<b>Power Supply</b>	2x 1200W Redundant Titanium Level (96%) Hot-plug power supplies
<b>System BIOS</b>	BIOS Type: AMI 64MB SPI Flash
<b>Management</b>	SuperCloud Composer® (SCC); 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!
<b>PC Health Monitoring</b>	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
<b>Dimensions and Weight</b>	Weight: Gross Weight: 49 lbs (22.2 kg) Net Weight: 34 lbs (15.4 kg) Available Color: N/A
<b>Operating Environment</b>	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)
<b>Motherboard</b>	<a href="#">Super X13DEM</a>
<b>Chassis</b>	<b>CSE-HS119-R1K24P2</b>