

# 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

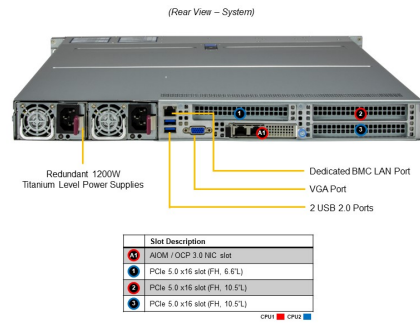
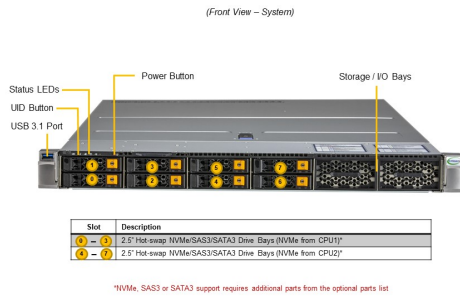
Virtualization, Software-defined Storage, AI Inference and Machine Learning, Cloud Computing, Enterprise Server,

## 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;



<b>Form Factor</b>	<p>1U Rackmount</p> <p>Enclosure: 437 x 43 x 747mm (17.2" x 1.7" x 29.4")</p> <p>Package: 605 x 206 x 1032mm (23.8" x 8.1" x 40.6")</p>
<b>Processor</b>	<p>Dual Socket E (LGA-4677)</p> <p>5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors</p> <p>Supports Intel Xeon CPU Max Series with high bandwidth memory (HBM)</p> <p>Up to 64C/128T; Up to 320MB Cache per CPU</p>
<b>GPU</b>	<p>Max GPU Count: Up to 1 double-width or 3 single-width GPUs</p> <p>Supported GPU: NVIDIA PCIe: H100 NVL, H100, RTX A5000, RTX A4000, L40S, L4</p>
<b>System Memory</b>	<p>Slot Count: 32 DIMM slots</p> <p>Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM</p> <p>Max Memory (2DPC): Up to 8TB 4400MT/s ECC DDR5 RDIMM</p>
<b>Drive Bays Configuration</b>	<p>Default: Total 8 bays</p> <ul style="list-style-type: none"> <li>• 8 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays</li> </ul> <p>Option A: Total 12 bays</p> <ul style="list-style-type: none"> <li>• 12 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays</li> </ul> <p>(*NVMe/SAS/SATA support may require additional storage controller and/or cables, please see the optional parts list for details)</p> <p>M.2: 2 M.2 NVMe/SATA slots (M-key 2280/22110)</p>
<b>Expansion Slots</b>	<p>PCI-Express (PCIe) Configuration: Default</p> <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> <p>M.2: 2 M.2 NVMe/SATA slots (B+M-key 2280/22110)</p>
<b>On-Board Devices</b>	<p>SATA: SATA (6Gbps) ; RAID 0/1/5/10 support</p> <p>NVMe: NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required)</p> <p>Chipset: Intel® C741</p> <p>Network Connectivity: Via AIOM</p>
<b>Input / Output</b>	<p>LAN: 1 RJ45 1 GbE Dedicated BMC LAN port</p> <p>USB: 2 USB 2.0 ports(rear)</p> <p>1 USB 3.0 port(front)</p> <p>Video: 1 VGA port</p>



System Cooling	Fans: 8 counter-rotating 40x40x56mm Fan(s) Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)
Power Supply	2x 1200W Redundant Titanium Level (96%) 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	Operating Temperature: 10°C ~ 35°C (50°F ~ 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	<b><u>Super X13DEM</u></b>
Chassis	<b>CSE-HS119-R1K24P2</b>