

# Hyper SuperServer SYS-121H-TNR



More details here

## Key Applications

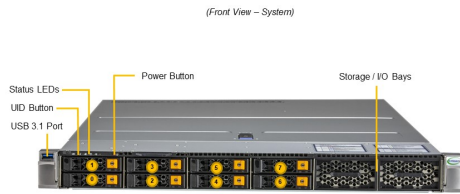
Virtualization, Software-defined Storage, AI Inference and Machine Learning, Cloud Computing, Enterprise Server,

## 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;

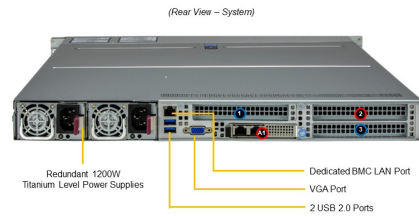


Form Factor	<p>1U Rackmount</p> <p>Enclosure: 437 x 43 x 747mm (17.2" x 1.7" x 29.4")</p> <p>Package: 605 x 206 x 1032mm (23.8" x 8.1" x 40.6")</p>
Processor	<p>Dual Socket E (LGA-4677)</p> <p>5th Gen Intel® Xeon®/4th Gen Intel® Xeon® Scalable processors</p> <p>Supports Intel Xeon CPU Max Series with high bandwidth memory (HBM)</p> <p>Up to 64C/128T; Up to 320MB Cache per CPU</p>
GPU	<p>Max GPU Count: Up to 1 double-width or 3 single-width GPU(s)</p> <p>Supported GPU: NVIDIA PCIe: H100, RTX A5000, L40S, RTX A4000, L4</p> <p>CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect</p> <p>GPU-GPU Interconnect: PCIe</p>
System Memory	<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>
Drive Bays	<p>8x 2.5" hot-swap NVMe/SATA/SAS drive bays (Configurable option for 12x 2.5" hot-swap NVMe/SAS/SATA drive bays. NVMe, SATA, or SAS support requires additional parts. Please see the Optional Parts list.)</p> <p>2 M.2 NVMe OR 2 M.2 SATA3</p> <p>M-Key, 2280/2210</p>
Expansion Slots	<p>1 PCIe 5.0 x16 FH, 6.6"L slot(s)</p> <p>2 PCIe 5.0 x16 FH, 10.5"L slot(s)</p>
On-Board Devices	<p>SATA: SATA3 (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: 2x 1GbE BaseT with Intel® i350-AM2 (optional)</p> <p>4x 1GbE BaseT or 4x 1GbE SFP with Intel® i350-AM4 (optional)</p> <p>2x 10GbE BaseT with Intel® X550-AT2 (optional)</p> <p>2x 10GbE SFP+ with Intel® X710-BM2 (optional)</p> <p>4x 10GbE SFP+ with Intel® XL710-BM1 (optional)</p> <p>4x 10GbE RJ45/SFP+ with Intel® X710-TM4 (optional)</p> <p>2x 25GbE SFP28 with Broadcom® BCM57414 (optional)</p> <p>4x 25GbE RJ45/SFP28 with Mellanox® CX-4 Lx EN Intel® X550-AT2 (optional)</p> <p>2x 100GbE QSFP28 with Broadcom® BCM57508 (optional)</p> <p>IPMI: Support for Intelligent Platform Management Interface v.2.0</p> <p>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</p>
Input / Output	<p>LAN: 1 RJ45 Dedicated BMC LAN port</p> <p>USB: 2 USB 2.0 port(s) (2 rear)</p> <p>1 USB 3.0 port(s) (1 front)</p> <p>Video: 1 VGA port(s)</p>



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	ADOM / OCP 3.0 BMC 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)

System Cooling	Fans: 8x 4cm heavy duty fans with optimal fan speed control Air Shroud: 2 Air Shroud(s) Liquid Cooling: 1Direct to Chip (D2C) Cold Plate (optional)
Power Supply	2x 1200W Redundant Titanium Level power supplies
System BIOS	BIOS Type: AMI 256MB SPI Flash
Management	Redfish API; Supermicro Server Manager (SSM); Supermicro Power Manager (SPM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline ; KVM with dedicated LAN ; IPMI 2.0
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	Height: 1.7" (43 mm) Width: 17.2" (437 mm) Depth: 29.4" (747 mm) Gross Weight: 49 lbs (22.2 kg) Net Weight: 34 lbs (15.4 kg) Packaging: 8.1" (H) x 23.8" (W) x 40.6" (D) 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	<a href="#">Super X13DEM</a>
Chassis	CSE-HS119-R1K24P2