

# Hyper SuperServer SYS-121H-TNR



More details here

## Key Applications

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

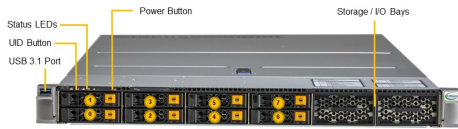
## Key Features

- Dual Socket E (LGA-4677) 4th Gen Intel® Xeon® Scalable processors;
- 32 DIMM slots supporting up to 8TB of memory; RDIMMs up to DDR5-4800;
- 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;



<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>4th Gen Intel® Xeon® Scalable processors</p> <p>Supports Intel Xeon CPU Max Series with high bandwidth memory (HBM)</p> <p>Supports up to 350W TDP CPUs (Air Cooled)*</p> <p>Supports up to 350W TDP CPUs (Liquid Cooled)</p> <p>*Air Cooled CPUs with TDP over 250W only supported under specific conditions. Contact a Supermicro representative for details.</p>
<b>System Memory</b>	<p>Memory Capacity: 32 DIMM slots</p> <p>Up to 8TB: 32x 256 GB DRAM</p> <p>Memory Type: 4800MHz ECC DDR5</p>
<b>Drive Bays</b>	<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>
<b>Expansion Slots</b>	<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>
<b>On-Board Devices</b>	<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>
<b>Input / Output</b>	<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>

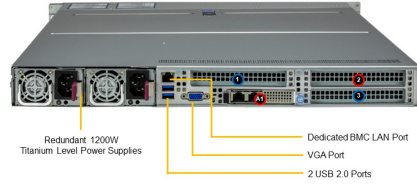
(Front View – System)



Slot	Description
1 - 6	2.5" Hot-swap NVMe/SAS/SATA3 Drive Bays (NVMe from CPU1)*
7 - 12	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

(Rear View – System)



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

System Cooling	8x 4cm heavy duty fan(s) Liquid Cooling: Direct 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