

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



Key Applications

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

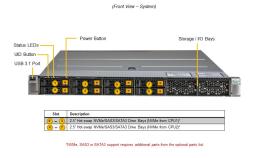
Key Features

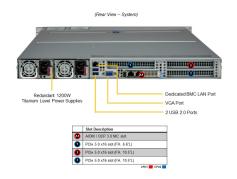
- Dual Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors;
- 32 DIMM slots supporting up to 8TB of memory; RDIMMs up to DDR5-5600;
- 3 PCle 5.0 x16 slots with support for GPU/Accelerator cards;
- Flexible networking options with 1 AIOM networking slot (OCP NIC 3.0 compatible);
- 8x 2.5" 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 GPU(s)
	Supported GPU: NVIDIA PCIe: H100, RTX A5000, RTX A4000, L40S, L4
	CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect
	GPU-GPU Interconnect: PCIe
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 bay(s)
	• 8 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bay(s)
	Option A: Total 12 bay(s)
	• 12 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bay(s)
	(*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 slot(s) (M-key 2280/22110)
	M.2. 2 M.2 (VVMC) 5/(1/13101(5)) (M. RCY 2200) 22110)
Expansion Slots	PCI-Express (PCIe) Configuration: Default
	• 1 PCIe 5.0 x16 FHHL slot(s)
	 2 PCIe 5.0 x16 FH/10.5"L slot(s)
	 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)
	M.2: 2 M.2 NVMe/SATA slot(s) (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(s)
	USB: 2 USB 2.0 port(s) (rear)
	1 USB 3.0 port(s) (front)
	Video: 1 VGA port(s)







Chassis	CSE-HS119-R1K24P2
Motherboard	Super X13DEM
	Non-operating Relative Humidity: 5% to 95% (non-condensing)
	Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing)
Operating Environment	Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)
0 11 5 1	
	Available Color: N/A
	Net Weight: 34 lbs (15.4 kg)
Dimensions and Weight	Weight: Gross Weight: 49 lbs (22.2 kg)
	Thermal Control for fan connectors
	Temperature: Monitoring for CPU and chassis environment
	Pulse Width Modulated (PWM) fan connectors
	FAN: Fans with tachometer monitoring Status monitor for speed control
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory
-	Super Diagnostics Offline; TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)
Management	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); SuperDoctor® 5;
System BIOS	BIOS Type: AMI 256MB SPI Flash
Power Supply	2x 1200W Redundant Titanium Level Hot-plug power supplies
Devices Cumply	2v 1200W Dedundant Titanium Lavel Het alug neurogenenlies
, o	Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)
System Cooling	Fans: 8 counter-rotating 40x40x56mm Fan(s)