

Hyper SuperServer SYS-120H-TNR



More details here

Key Applications

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

Key Features

- Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable Processors;
- 32 DIMM Slots; Up to 8TB DRAM; Up to 8TB Intel® Optane™ Persistent Memory (up to 12TB with DRAM); 3200/2933/2666 ECC DDR4 LRDIMM; RDIMM; Intel® Optane™ Persistent Memory 200 series;
- 3 PCIe 4.0 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/SAS 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

3rd Gen Intel® Xeon® Scalable processors
Dual Socket LGA-4189 (Socket P+) supported
TDP up to 270W; 3 UPI
(Certain CPUs with high TDP may be supported only under specific conditions. Please contact Supermicro Technical Support for additional information about specialized system optimization)

System Memory

32 DIMM slots
Up to 8TB ECC LRDIMM, DDR4-3200MHz
Up to 8TB Intel® DCPMM, DDR4-3200MHz
Up to 8TB ECC RDIMM, DDR4-3200MHz

Drive Bays

8x 2.5" hot-swap NVMe/SATA/SAS drive bays; 8x 2.5" NVMe hybrid;
Optional RAID support via RAID Controller AOC

Expansion Slots

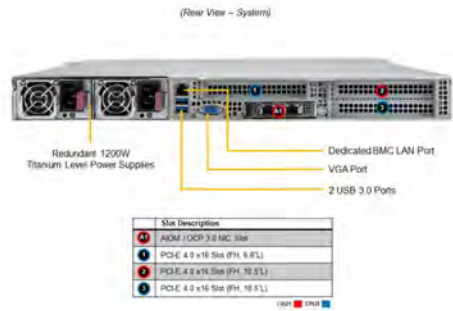
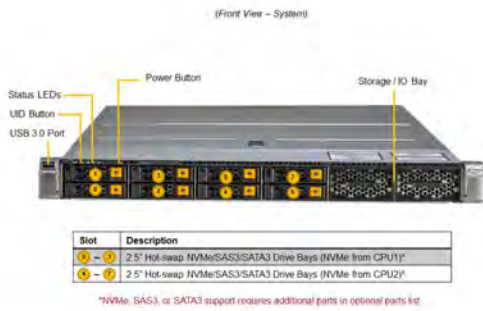
1 PCIe 4.0 x16 FH, 6.6"L slot(s)
2 PCIe 4.0 x16 FH, 10.5"L slot(s)

On-Board Devices

SATA: SATA3 (6Gbps); RAID 0/1/5/10 support
NVMe: NVMe; RAID 0/1/5/10 support (Intel® VROC RAID key required)
Chipset: Intel® C621A
Network Connectivity: 2x 1GbE BaseT with Intel® i350-AM2 (optional)
4x 1GbE BaseT or 4x 1GbE SFP with Intel® i350-AM4 (optional)
2x 10GbE BaseT with Intel® X550-AT2 (optional)
2x 10GbE SFP+ with Intel® X710-BM2 (optional)
4x 10GbE SFP+ with Intel® XL710-BM1 (optional)
4x 10GbE RJ45/SFP+ with Intel® X710-TM4 (optional)
2x 25GbE SFP28 with Broadcom® BCM57414 (optional)
4x 25GbE RJ45/SFP28 with Mellanox® CX-4 Lx EN Intel® X550-AT2 (optional)
2x 100GbE QSFP28 with Broadcom® BCM57508 (optional)
IPMI: Support for Intelligent Platform Management Interface v.2.0
IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

Input / Output

LAN: 1 RJ45 Dedicated BMC LAN port
USB: 3 USB 3.0 port(s) (2 rear; 1 front)
Video: 1 VGA port(s)



System Cooling	8x 4cm heavy duty fan(s)
Power Supply	1U 800W/1200W Redundant Titanium CRPS w/PMBus power supply Dimension (W x H x L): 73.5 x 40 x 265 mm Output Type: 25 Pairs Gold Finger Connector
System BIOS	BIOS Type: AMI 256MB SPI Flash
Management	SuperDoctor® 5; Watch Dog; NMI; SUM; KVM with dedicated LAN; SPM; Intel® Node Manager; SSM; IPMI 2.0; Redfish API
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	Super X12DHM-6
Chassis	CSE-HS119-R1K24P