

Hyper SuperServer SYS-112HA-TN

1U Hyper supporting up to 12 hot-swap 2.5" NVMe/SAS/SATA bays and 3 PCIe 5.0 x16 + 1 PCIe 5.0 x16 AIOM slots



Key Applications

Virtualization, Financial, Scale Out All-Flash NVMe Storage, Data Center
Enterprise Applications, Cloud Computing, AI Inference, CDN/vCDN/Cloud CDN,

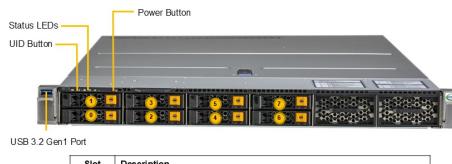
Key Features

- Hyper is a flagship performance rackmount server designed for scale-out cloud workloads.;
- Single Intel® Xeon® 6 6900 series Processor.;
- 12 DIMM slots supporting up to 3TB;
- Double width add-on card support.;
- Flexible networking options with 1 AIOM networking slot (OCP NIC 3.0 compatible);
- Breeze through high throughput workloads with PCIe 5.0 NVMe drive support.;
- Trusted Platform Module (TPM) 2.0 onboard.;
- Modularized and Tool-less design for easy serviceability.;

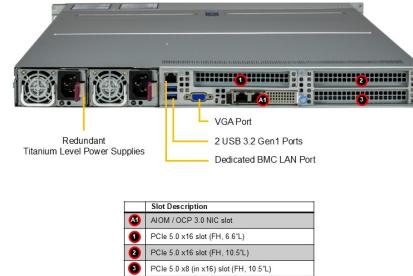


Form Factor	1U Rackmount Enclosure: 437 x 43 x 778.7mm (17.2" x 1.7" x 30.66") Package: 672 x 224 x 1100mm (26.46" x 8.82" x 43.31")
Processor	Single Socket BR (LGA-7529) Intel® Xeon® 6900 series processors with P-cores Up to 128C/256T; Up to 504MB Cache
GPU	Max GPU Count: Up to 1 double-width or 2 single-width GPUs CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect
System Memory	Slot Count: 12 DIMM slots Max Memory (1DPC): Up to 3TB 6400MT/s ECC DDR5 RDIMM Max Memory (1DPC): Up to 1.5TB 8800MT/s ECC DDR5 MRDIMM
Drive Bays Configuration	<p>Default: Total 8 bays</p> <ul style="list-style-type: none"> 8 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays <p>Option A: Total 12 bays</p> <ul style="list-style-type: none"> 8 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays 4 front hot-swap 2.5" SAS*/SATA* drive bays <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 slots (M-key 2280/22110/25110; VROC required for RAID)</p>
Expansion Slots	<p>Default</p> <ul style="list-style-type: none"> 1 PCIe 5.0 x16 FHHL slot 1 PCIe 5.0 x16 FHFL slot 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 1 PCIe 5.0 x8 FHFL slot
On-Board Devices	<p>NVMe: NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required)</p> <p>Chipset: System on Chip</p> <p>Network Connectivity: Via AIOM</p>
Input / Output	<p>LAN: 1 RJ45 1 GbE Dedicated BMC LAN port</p> <p>USB: 2 USB 3.2 Gen1 ports(Rear)</p> <p>1 USB 3.2 Gen1 port(Front)</p> <p>Video: 1 VGA port</p>

(Front View – System)



(Rear View – System)



System Cooling

Fans: Up to 8 counter-rotating 40x40x56mm Fan(s)

Power Supply

2x 1200W Redundant (1 + 1) Titanium Level (96%) power supplies

System BIOS

BIOS Type: AMI 64MB SPI Flash

Management

SuperCloud Composer®; Supermicro Server Manager (SSM); 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

Pulse Width Modulated (PWM) fan connectors

Status monitor for speed control

Temperature: Monitoring for CPU and chassis environment

Thermal Control for fan connectors

Dimensions and Weight

Weight: Gross Weight: 41.4 lbs (18.8 kg)

Net Weight: 19.2 lbs (8.7 kg)

Available Color: Silver

Operating Environment

Operating Temperature: 10°C to 35°C (50°F to 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 X14SBH-AP](#)

Chassis

[CSE-HS101-R000NFP](#)