

# Hyper SuperServer SYS-212H-TN

2U UP Hyper with 8 hot-swap 2.5" NVMe/SAS/SATA bays and up to 3 PCIe 5.0 + 1 PCIe 5.0 AIOM slots

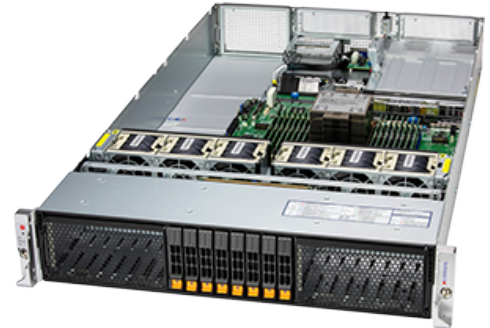


## Key Applications

Virtualization, Software-defined Storage, AI Inference and Machine Learning, Cloud Computing, Enterprise Server, Data Center Optimized, Database Processing and High Density Storage,

## Key Features

- Hyper is a flagship performance rackmount server designed for scale-out cloud workloads.;
- Single Intel® Xeon® 6 Processor.;
- 16 DIMM slots supporting up to 2TB of memory (6700E series CPU).;
- 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.;



<b>Form Factor</b>	2U Rackmount Enclosure: 437 x 88.9 x 806.2mm (17.2" x 3.5" x 31.74") Package: 672 x 253 x 1100mm (26.46" x 9.96" x 43.31")
<b>Processor</b>	Single Socket E2 (LGA-4710) Intel® Xeon® 6700 series processors with E-cores Up to 144C/144T; Up to 108MB Cache
<b>GPU</b>	Max GPU Count: Up to 1 double-width or 2 single-width GPUs Supported GPU: NVIDIA PCIe: L40S, L4 CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect
<b>System Memory</b>	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 1TB 6400MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 2TB 5200MT/s ECC DDR5 RDIMM
<b>Drive Bays Configuration</b>	Default: Total 8 bays <ul style="list-style-type: none"> <li>• 8 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays</li> </ul> Option A: Total 16 bays <ul style="list-style-type: none"> <li>• 8 front hot-swap 2.5" PCIe 5.0 x4 NVMe* drive bays</li> <li>• 8 front hot-swap 2.5" SAS*/SATA* drive bays</li> </ul> Option B: Total 16 bays <ul style="list-style-type: none"> <li>• 16 front hot-swap 2.5" SAS*/SATA* drive bays</li> </ul> Option C: Total 24 bays <ul style="list-style-type: none"> <li>• 24 front hot-swap 2.5" SAS*/SATA* drive bays</li> </ul> (*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 slots (M-key 2280/22110/25110; VROC required for RAID)
<b>Expansion Slots</b>	Option A <ul style="list-style-type: none"> <li>• 1 PCIe 5.0 x16 FHFL double-width slot</li> <li>• 1 PCIe 5.0 x16 FH/10.5"L double-width slot</li> <li>• 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)</li> </ul> Option B <ul style="list-style-type: none"> <li>• 1 PCIe 5.0 x16 FHFL double-width slot</li> <li>• 2 PCIe 5.0 x8 FH/10.5"L slots</li> <li>• 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)</li> </ul>
<b>On-Board Devices</b>	NVMe: NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required) Chipset: System on Chip Network Connectivity: Via AIOM

## Input / Output

LAN: 1 RJ45 1 GbE Dedicated BMC LAN port

USB: 2 USB 3.0 ports(rear)

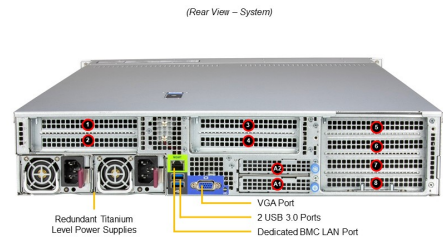
Video: 1 VGA port

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Drive Bay	Description
0 - 7	8 Hot-swap 2.5" 15MM/SAS/SATA3 Drive Bays * up to 16 Optional Drive Bays*

\*Requires additional parts from the optional parts list



Slot Description		Slot Description	
Option 1	Option 2	AOM Slot (OCP 3.0)	
PCIe 5.0 x8 (m x16)	PCIe 5.0 x16	Not available with Intel® 6700E CPU configurations	
PCIe 5.0 x8 (m x16)	---	Slot Description	
PCIe 5.0 x16	---	Not available with Intel® 6700E CPU configurations	

\*Requires additional parts from the optional parts list

System Cooling	Fans: 6 counter-rotating 60x60x56mm Fan(s) Air Shroud: 1 CPU Air Shroud
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 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	Weight: Gross Weight: 75 lbs (34 kg) Net Weight: 45 lbs (20.5 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	<a href="#">Super X14SBH</a>
Chassis	<b>CSE-HS201-R000NFP</b>