

Hyper SuperServer SYS-212H-TN (Complete System Only) **New**

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

Key Features

1. Hyper is a flagship performance rackmount server designed for scale-out cloud workloads.
2. Single Intel® Xeon® 6 Processor.
3. 16 DIMM slots supporting up to 2TB of memory (6700E series CPU).
4. Double width add-on card support.

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Specifications Resources & Downloads Parts List

Product SKUs

SuperServer **SYS-212H-TN**

Motherboard

Super X14SBH

Processor

CPU Single Socket E2 (LGA-4710)
[Intel® Xeon® 6700 series processors with E-cores](#)

Core Count Up to 144C/144T; Up to 108MB Cache

Note Supports up to 330W TDP CPUs (Air Cooled)

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

Memory 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
[View Memory Options >](#)

On-Board Devices

NVMe NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required)
[View NVMe Options >](#)

Chipset System on Chip

Network Connectivity Via AIOM
[View AIOM Options >](#)
[View AOC Options >](#)

Input / Output

LAN 1 RJ45 1 GbE Dedicated BMC LAN port

USB 2 USB 3.0 ports(rear)

Video 1 VGA port

System BIOS

BIOS Type AMI 64MB SPI Flash

Management

Software [SuperCloud Composer](#)
[Supermicro Server Manager \(SSM\)](#)
[Super Diagnostics Offline \(SDO\)](#)
[Supermicro Thin-Agent Service \(TAS\)](#)
[SuperServer Automation Assistant \(SAA\) New!](#)

Power configurations Power-on mode for AC power recovery
ACPI Power Management

Security

Hardware Trusted Platform Module (TPM) 2.0
Silicon Root of Trust (RoT) – NIST 800-193 Compliant

Features Cryptographically Signed Firmware
Secure Boot
Secure Firmware Updates
Automatic Firmware Recovery
Supply Chain Security: Remote Attestation
Runtime BMC Protections
System Lockdown

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

Chassis

Form Factor 2U Rackmount

Model **CSE-HS201-R000NFP**

Dimensions and Weight

Height 3.5" (88.9 mm)

Width 17.2" (437 mm)

Depth 31.74" (806.2 mm)

Package 9.96" (H) x 26.46" (W) x 43.31" (D)

Weight Gross Weight: 75 lbs (34 kg)
Net Weight: 45 lbs (20.5 kg)

Available Color Silver

Front Panel

LED HDD activity
LAN1 activity
Power status
System information

Buttons Power On/Off
UID button

Expansion Slots

PCI-Express (PCIe) Configuration
Option A
1 PCIe 5.0 x16 FHFL double-width slot
1 PCIe 5.0 x16 FH/10.5"L double-width slot
1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)
Option B
1 PCIe 5.0 x16 FHFL double-width slot
2 PCIe 5.0 x8 FH/10.5"L slots
1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)
[View AOC Options >](#)

Drive Bays / Storage

Drive Bays Configuration Default: Total 8 bays
8 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays
Option A: Total 16 bays
8 front hot-swap 2.5" PCIe 5.0 x4 NVMe* drive bays
8 front hot-swap 2.5" SAS*/SATA* drive bays
Option B: Total 16 bays
16 front hot-swap 2.5" SAS*/SATA* drive bays
Option C: Total 24 bays
24 front hot-swap 2.5" SAS*/SATA* drive bays
(*NVMe/SAS/SATA support may require additional storage controller and/or cables, please see the optional parts list for details)
[View NVMe Options >](#)
[View Drive Options >](#)

M.2 2 M.2 NVMe slots (M-key 2280/22110/25110; VROC required for RAID)
[View M.2 Options >](#)

System Cooling

Fans 6 counter-rotating 60x60x56mm Fan(s)

Air Shroud 1 CPU Air Shroud

Power Supply

< **2X 1200W** **2X 1300W** **2X 1600W** **2X 2** >

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

Dimension (WxHxL) 73.5 x 40 x 265 mm

Input 800W: 100-127Vac
800W: 100-127Vac / 50-60Hz
1200W: 200-240Vac
1200W: 200-240Vac / 50-60Hz
1200W: 230-240Vdc / 50-60Hz (for CCC only)

+12V Max: 66.7A / Min: 0A (100Vac-127Vac)
Max: 83A / Min: 0A (100Vac-127Vac)
Max: 100A / Min: 0A (200Vac-240Vac)
Max: 100A / Min: 0A (230Vdc-240Vdc) (for CCC only)

12V SB Max: 2.1A / Min: 0A

Output Type Backplanes (gold finger)

Operating Environment

Environmental Spec. 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)

Certain products may not be available in your region

Global SKU **English**

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