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Supermicro 2U Hyper SuperServer (SYS-212HA-TN)

- **Key Features/Applications:** Virtualization, AI Inference and Machine Learning, Software-defined Storage, Cloud Computing, Data Center Optimized, Database Processing and High Density Storage, Enterprise Server
- **CPU:** Single Intel® Xeon® 6 6900 Series Processor
- **Chassis:** 2U / 1 Node
- **Drive:** Up to 8 2.5" Hot-Swap NVMe Drive Bays
- **RAM:** 12 DDR5 DIMM Slots
- **Network Ports:** Flexible Networking Options with 1 AIOM Slot
- **Ships Within 3-5 Business Days**

IN STOCK



Up to 24 Hot-swap 2.5" NVMe/SAS/SATA Drive Bays



Product SKUs	
SuperServer SYS-212HA-TN	
Processor	
CPU	- Single Socket BR (LGA-7529) Intel® Xeon® 6900 series processors with P-cores
Core Count	Up to 128C/256T; Up to 504MB Cache
Note	Supports up to 500W TDP CPUs (Air Cooled)
System Memory	
Memory	- Slot Count: 12 DIMM slots - Max Memory (1DPC): Up to 3TB 8800MT/s ECC DDR5 MRDIMM - Max Memory (1DPC): Up to 3TB 6400MT/s ECC DDR5 RDIMM
Memory Voltage	1.1V
On-Board Devices	
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 3.2 Gen1 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	
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

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	
Front Panel	
LED	- HDD activity - LAN1 activity - Power status - System information
Buttons	- Power On/Off - UID button
Drive Bays / Storage	
Drive Bays Configuration	- Default: Total 8 bays 8 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays - Option A: 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)
M.2	2 M.2 NVMe slots (M-key 2280/22110/25110; VROC required for RAID)
System Cooling	
Fans	6 counter-rotating 60x60x56mm Fan(s)
Power Supply	
QtyWithPsu	2x 1200W
Description	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)

Temperature	- Monitoring for CPU and chassis environment - Thermal Control for fan connectors
+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)
QtyWithPsu	2x 1300W
Description	2x 1300W Redundant (1 + 1) Gold (Certification Pending) Level power supplies
Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	1300W: -44--65Vdc / 50-60Hz
+12V	Max: 108.3A / Min: 0A
12V SB	Max: 2.1A
Output Type	Backplanes (gold finger)
QtyWithPsu	2x 1600W
Description	2x 1600W Redundant (1 + 1) Titanium Level (96%) power supplies
Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	1000W: 100-127Vac 1000W: 100-127Vac / 50-60Hz 1600W: 200-240Vac 1600W: 200-240Vac / 50-60Hz 1600W: 200-240Vdc / 50-60Hz (for CQC only)
+12V	- Max: 83.3A / Min: 0A (100Vac-127Vac) - Max: 133.3A / Min: 0A (200Vac-240Vac)
12V SB	- Max: 3.5A / Min: 0A - Max: 3.5A
Output Type	Backplanes (gold finger)
QtyWithPsu	2x 2600W
Description	2x 2600W Redundant (1 + 1) Titanium Level (96%) power supplies
Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	2600W: 200-240Vac 2600W: 200-240Vdc (For CQC Only) 2600W: 200-240Vac / 50-60Hz 2600W: 200-240Vdc / 50-60Hz (for CQC only)



+12V	- Max: 216A / Min: 0A (11.4Vdc-12.6Vdc) (12V output) - Max: 216A / Min: 0A (200Vac-240Vac)
12V SB	Max: 3.5A
Output Type	Backplanes (gold finger)
QtyWithPsu	2x 2000W
Description	2x 2000W Redundant (1 + 1) Titanium Level (96%) power supplies
Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	1000W: 100-127Vac / 50-60Hz 1800W: 200-220Vac / 50-60Hz 2700W: 200-240Vac 1980W: 220-230Vac / 50-60Hz 2000W: 220-240Vac / 50-60Hz (for UL only) 2000W: 230-240Vac / 50-60Hz 2000W: 230-240Vdc / 50-60Hz (for CQC only)
+12V	- Max: 83A / Min: 0A (100Vac-127Vac) - Max: 150A / Min: 0A (200Vac-220Vac) - Max: 225A / Min: 0A (200Vac-240Vac) - Max: 165A / Min: 0A (220Vac-230Vac) - Max: 166A / Min: 0A (230Vac-240Vac)
12V SB	Max: 3.5A / Min: 0A
Output Type	Backplanes (gold finger)
QtyWithPsu	2x 2000W
Description	2x 2000W Redundant (1 + 1) power supplies
Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	2000W: 200-277Vac / 50-60Hz
+12V	Max: 166A / Min: 0A (200Vac-277Vac)
12V SB	Max: 3.5A / Min: 0A
Output Type	Backplanes (gold finger)
Certification	
[Test Report]	

Operating Environment



Environmental Spec.

- 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)

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