Intel Xeon (X14) | 2U Rackmount | Server

Supermicro SYS-212HA-TN

Intel Xeon (X14) · 2U Rackmount Server

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Form Factor	CPU
2U Rackmount	**Intel® Xeon® 6900 Series processors with P-cores and Intel Xeon 6+ processors**
GPU	**Memory**
Up to 1 double-width or 2 single-width GPUs	**Max Memory (1DPC): Up to 3TB 8800MT/s ECC DDR5 MRDIMM (P-core only)**

Key Features

- Hyper is a flagship performance rackmount server designed for scale-out cloud workloads.
- Single Intel® Xeon® 6900-Series Processors with P-cores and Xeon 6+ processors
- 12 DIMM slots support RDIMM / MRDIMM
- 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	2U Rackmount
Platform	Intel Xeon (X14)
CPU	Single Socket BR (LGA-7529) Intel® Xeon® 6900 Series processors with P-cores and Intel Xeon 6+ processors
Max GPU Count	Up to 1 double-width or 2 single-width GPUs
Supported GPU	NVIDIA PCIe: H100 NVL, L4, L40S, NVIDIA RTX PRO 2000 Blackwell, NVIDIA RTX PRO™ 4000 Blackwell, NVIDIA RTX PRO™ 4500 Blackwell, NVIDIA RTX PRO™ 4500 Blackwell Server Edition, NVIDIA RTX PRO™ 5000 Blackwell, NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation Edition
Memory	Slot Count: 12 DIMM slots Max Memory (1DPC): Up to 3TB 8800MT/s ECC DDR5 MRDIMM (P-core only)
Drive Bays	Default: Total 8 bays8 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays
Fans	Up to 6 counter-rotating 60x60x56mm Fan(s)

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

Full Specifications — SYS-212HA-TN

Product SKUs

Part numbers	SYS-212HA-TN

Motherboard

Motherboard	Super X14SBH-AP

Processor

CPU	Single Socket BR (LGA-7529) Intel® Xeon® 6900 Series processors with P-cores and Intel Xeon 6+ processors
Core Count	P-cores: Up to 128C/256T; Up to 504MB Cache E-cores: Up to 288C/288T; Up to 576MB Cache
Note	Supports up to 500W TDP CPUs (Air Cooled)

GPU

Max GPU Count	Up to 1 double-width or 2 single-width GPUs
Supported GPU	NVIDIA PCIe: H100 NVL, L4, L40S, NVIDIA RTX PRO 2000 Blackwell, NVIDIA RTX PRO™ 4000 Blackwell, NVIDIA RTX PRO™ 4500 Blackwell, NVIDIA RTX PRO™ 4500 Blackwell Server Edition, NVIDIA RTX PRO™ 5000 Blackwell, NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation Edition Intel PCIe: Intel Data Center GPU Flex 170 View GPU Options
CPU-GPU Interconnect	PCIe 5.0 x16 CPU-to-GPU Interconnect

System Memory

Memory	Slot Count: 12 DIMM slots Max Memory (1DPC): Up to 3TB 8800MT/s ECC DDR5 MRDIMM (P-core only) Max Memory (1DPC): Up to 1.5TB 8000MT/s ECC DDR5 RDIMM (E-core) Max Memory (1DPC): Up to 3TB 6400MT/s ECC DDR5 3DS RDIMM (P-core only) View Memory Options
Memory Voltage	1.1V

On-Board Devices

NVMe	NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required) View NVMe Options
Network Connectivity	Via AIOM View AIOM Options View AOC Options

Input / Output

LAN	1 RJ45 1 GbE Dedicated BMC LAN port

USB	2 USB 3.2 Gen1 ports (Rear)
Video	1 VGA port

System BIOS

BIOS Type	AMI 64MB SPI Flash

Management

Software	SuperCloud Composer® (SCC) 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 Pulse Width Modulated (PWM) fan connectors Status monitor for speed control
Temperature	Monitoring for CPU and chassis environment Thermal Control for fan connectors

Certifications

Operating Systems	Oracle Linux 9.4, RHEL 9.4, RHEL 10.0, Windows Server 2025 View all OS Compatibility and Certification Matrix

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

Buttons	Power On/Off UID button
LED	HDD activity LAN1 activity Power status System information

Expansion Slots

PCI-Express (PCIe) Configuration	Option A*1 PCIe 5.0 x16 FH/10.5"L double-width slot 1 PCIe 5.0 x8 FHFL slot 1 PCIe 5.0 x16 FHFL double-width slot 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 1 PCIe 5.0 x16 FH/10.5"L double-width slot 1 PCIe 5.0 x8 FHFL slot 1 PCIe 5.0 x16 FHFL double-width slot 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option B*2 PCIe 5.0 x8 FH/10.5"L slots 1 PCIe 5.0 x8 FHHL slot 1 PCIe 5.0 x16 FHFL double-width slot 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 2 PCIe 5.0 x8 FH/10.5"L slots 1 PCIe 5.0 x8 FHHL slot 1 PCIe 5.0 x16 FHFL double-width slot 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option C*1 PCIe 5.0 x16 FH/10.5"L double-width slot 2 PCIe 5.0 x16 FHFL double-width slots 1 PCIe 5.0 x16 FH/10.5"L double-width slot 2 PCIe 5.0 x16 FHFL double-width slots (*Requires additional parts, please see the optional parts list for details. For more details on PCIe slot configuration options, please refer to the system callout images above.) View AOC Options

Drive Bays / Storage

Drive Bays Configuration	Default: Total 8 bays8 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays 8 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays Option A: Total 24 bays24 front hot-swap 2.5" SAS*/SATA* drive bays 24 front hot-swap 2.5" SAS*/SATA* drive bays Option B: Total 16 bays16 front hot-swap 2.5" SAS*/SATA* drive bays 16 front hot-swap 2.5" SAS*/SATA* drive bays Option C: Total 4 bays4 front hot-swap 2.5" NVMe* drive bays 4 front hot-swap 2.5" NVMe* 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
M.2	2 M.2 NVMe slots (M-key 2280/22110/25110; VROC required for RAID) View M.2 Options

System Cooling

Fans	Up to 6 counter-rotating 60x60x56mm Fan(s)

Power Supply

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

Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	800W: 100-127Vac / 50-60Hz 1200W: 200-240Vac / 50-60Hz 1200W: 230-240Vdc / 50-60Hz (for CCC only)
+12V	Max: 66.7A / 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)

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)

2x 1600W Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 265 mm

Input	1000W: 100-127Vac / 50-60Hz 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
Output Type	Backplanes (gold finger)

2x 2600W Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	2600W: 200-240Vac / 50-60Hz 2600W: 200-240Vdc / 50-60Hz (for CQC only)
+12V	Max: 216A / Min: 0A (200Vac-240Vac)
12V SB	Max: 3.5A
Output Type	Backplanes (gold finger)

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 1980W: 220-230Vac / 50-60Hz 2000W: 230-240Vac / 50-60Hz 2000W: 220-240Vac / 50-60Hz (for UL only) 2000W: 230-240Vdc / 50-60Hz (for CQC only)
+12V	Max: 83A / Min: 0A (100Vac-127Vac) Max: 150A / Min: 0A (200Vac-220Vac) Max: 165A / Min: 0A (220Vac-230Vac) Max: 166A / Min: 0A (230Vac-240Vac)
12V SB	Max: 3.5A / Min: 0A
Output Type	Backplanes (gold finger)

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)

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)