Intel Xeon (X14) | 2U Rackmount | GPU Server

Supermicro SYS-212GB-FNR

Intel Xeon (X14) · 2U Rackmount · GPU Server Server

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Form Factor **2U Rackmount**	CPU **Intel® Xeon® 6700/6500 series processors with P-cores**
GPU **Up to 4 double-width GPUs**	Memory **Max Memory (1DPC): Up to 1TB 6400MT/s ECC DDR5 RDIMM**

Key Features

- Single Socket E2 (LGA-4710) Intel® Xeon® 6700-series processors with P-cores up to 350W with air cooling
- Support for up to 4 double-width PCIe GPU accelerator cards
- Up to 16 DIMMs supporting up to 1TB DDR5-6400 in 1DPC or 2TB DDR5-5200 in 2DPC or 512GB DDR5-8000 in 1DPC
- Up to 4 PCIe 5.0 x16 FHFL double-width + 3 PCIe 5.0 x16 FHFL slots
- Up to 4 rear hot-swap E1.S NVMe drive bays
- Two 2700W Titanium Level power supplies

Form Factor	2U Rackmount
Platform	Intel Xeon (X14)
CPU	Single Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores
Max GPU Count	Up to 4 double-width GPUs
Supported GPU	NVIDIA PCIe: H200 NVL (141GB), NVIDIA RTX PRO™ 6000 Blackwell Server Edition
Memory	Slot Count: 16 DIMM slots/8 Channels Max Memory (1DPC): Up to 1TB 6400MT/s ECC DDR5 RDIMM
Drive Bays	Default: Total 4 bays4 rear hot-swap E1.S PCIe 5.0 x4 NVMe drive bays
Fans	5x 8cm heavy duty fans with optimal fan speed control
Power Supply	2x 2700W Redundant Titanium Level (96%) power supplies

Full Specifications — SYS-212GB-FNR

Product SKUs

Part numbers	SYS-212GB-FNR SYS-212GB-FNR-01-G2 Gold Series version with pre-configured components

Motherboard

Motherboard	Super X14SBGM

Processor

CPU	Single Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores
Core Count	Up to 80C/160T
Note	Supports up to 350W TDP CPUs (Air Cooled)

GPU

Max GPU Count	Up to 4 double-width GPUs
Supported GPU	NVIDIA PCIe: H200 NVL (141GB), NVIDIA RTX PRO™ 6000 Blackwell Server Edition View GPU Options
CPU-GPU Interconnect	PCIe 5.0 x16 CPU-to-GPU Interconnect
GPU-GPU Interconnect	NVIDIA® NVLink™ Bridge (optional)

System Memory

Memory	Slot Count: 16 DIMM slots/8 Channels Max Memory (1DPC): Up to 1TB 6400MT/s ECC DDR5 RDIMM Max Memory (1DPC): Up to 512GB 8000MT/s ECC DDR5 MRDIMM Max Memory (2DPC): Up to 2TB 5200MT/s ECC DDR5 RDIMM View Memory Options
Memory Voltage	1.1V

On-Board Devices

Network Connectivity	View AOC Options

Input / Output

LAN	1 RJ45 1 GbE Dedicated BMC LAN port
USB	1 USB 3.0 Type-A port (Rear)
Video	1 mini-DP port

System BIOS

BIOS Type	AMI 64MB SPI Flash EEPROM

Management

Software	SuperCloud Composer® (SCC) Supermicro Server Manager (SSM) Super Diagnostics Offline (SDO) Supermicro Thin-Agent Service (TAS) SuperServer Automation Assistant (SAA) New! Plug-ins for 3rd Party Software SFT-DCMS-SINGLE
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	8+4 Phase-switching voltage regulator 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	RHEL 10.0, Windows Server 2022, Windows Server 2025 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	2U Rackmount
Model	CSE-MG204-R000NDFP

Dimensions and Weight

Height	3.43" (87 mm)

Width	17.3" (438.4 mm)
Depth	35.43" (900 mm)
Package	11.02" (H) x 27.56" (W) x 47.24" (D)
Weight	Gross Weight: 84 lbs (38 kg) Net Weight: 66 lbs (30 kg)
Available Color	Silver

Front Panel

Buttons	Power On/Off
LED	HDD activity

Expansion Slots

PCI-Express (PCIe) Configuration	Default*4 PCIe 5.0 x16 FHFL double-width slots 3 PCIe 5.0 x16 FHFL 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
M.2	2 M.2 PCIe 5.0 x2 NVMe slots (M-key 2280/22110)

Drive Bays / Storage

Drive Bays Configuration	Default: Total 4 bays4 rear hot-swap E1.S PCIe 5.0 x4 NVMe drive bays
M.2	2 M.2 PCIe 5.0 x2 NVMe slots (M-key 2280/22110) View M.2 Options

System Cooling

Fans	5x 8cm heavy duty fans with optimal fan speed control

Power Supply

2x 2700W Redundant Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 185 mm
Input	2700W: 200-240Vac / 50-60Hz 2700W: 240-240Vdc / 50-60Hz (for CQC only)
+12V	Max: 225A / Min: 0A (200Vac-240Vac) Max: 225A / Min: 0A (240Vdc-240Vdc)
12V SB	Max: 4A / 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: -30°C to 60°C (-22°F to 140°F) Operating Relative Humidity: 8% to 80% (max 21° DP; non-condensing) Non-operating Relative Humidity: 8% to 90% (max 38° DP; non-condensing)

Environmental / Recycling

Recycle	Return Server-End of Life Product