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

Supermicro SYS-212GB-NR

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

- Intel® Xeon® 6700 series processors, Single Socket, CPU TDP supports Up to 350W
- Support up to 4 double-width PCIe GPU accelerator cards
- Up to 2TB ECC RDIMM DDR5-6400MT/s and up to 512GB MRDIMM DDR5-8000MT/s in 16 DIMM slots
- Up to 4 PCIe 5.0 x16 FHFL double-width + 3 PCIe 5.0 x16 FHFL slots
- Up to 4 front hot-swap E1.S NVMe drive bays
- 3 Redundant 2000W Titanium Level power supplies
- 2U Rackmount chassis with 35.43" (900mm) depth

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 front hot-swap E1.S NVMe drive bays
Fans	Up to 6x 6cm heavy duty fans with optimal fan speed control
Power Supply	3x 2000W Redundant (2 + 1) Titanium Level (96%) power supplies

Full Specifications — SYS-212GB-NR

Product SKUs

Part numbers	SYS-212GB-NR

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; Up to 336MB Cache
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 Intel: Arc™ Pro B70 Graphics 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	Oracle Linux 9.6, RHEL 10.0, Windows Server 2022, Windows Server 2025 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	2U Rackmount
Model	CSE-GP201TS-R000NP

Dimensions and Weight

Height	3.46" (88 mm)

Width	17.25" (438.4 mm)
Depth	35.43" (900 mm)
Package	11" (H) x 22.5" (W) x 45.5" (D)
Weight	Gross Weight: 84 lbs (38 kg) Net Weight: 66 lbs (30 kg)
Available Color	Black front & silver body

Front Panel

Buttons	Power On/Off button System Reset button
LED	Hard drive activity LED Network activity LEDs Power status LED System Overheat & Power Fail LED

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 front hot-swap E1.S NVMe drive bays View NVMe Options
M.2	2 M.2 PCIe 5.0 x2 NVMe slots (M-key 2280/22110) View M.2 Options

System Cooling

Fans	Up to 6x 6cm heavy duty fans with optimal fan speed control
Air Shroud	1 Air Shroud

Power Supply

3x 2000W Redundant (2 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 185 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)

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