Intel Xeon (X14) | 4U Rackmount | GPU Server

Supermicro SYS-422GL-NR

Intel Xeon (X14) · 4U Rackmount · GPU Server Server

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Form Factor **4U Rackmount**	CPU **Intel® Xeon® 6900 series processors with P-cores**
GPU **Up to 8 double-width GPUs**	Memory **Max Memory (1DPC): 6.0TB 6400MT/s ECC DDR5 RDIMM**

Key Features

- Dual Socket Intel® Xeon® 6 6900 series processors with P-cores up to 500W
- Support for up to 8x 600W GPU's
- Supports 24x ECC DDR5 DIMMs at 6400 MT/s
- 8x PCIe 5.0 x16 for GPU4x PCIe 5.0 x16 for NICAdditional 1x PCIe 5.0 x16 for NIC/DPU (Via CPU)
- Up to 8 front hot-swap E1.S NVMe drive bays

Form Factor	4U Rackmount
Platform	Intel Xeon (X14)
CPU	Dual Socket BR (LGA-7529) Intel® Xeon® 6900 series processors with P-cores
Max GPU Count	Up to 8 double-width GPUs
Supported GPU	NVIDIA PCIe: H200 NVL (141GB), NVIDIA RTX PRO™ 4500 Blackwell Server Edition, NVIDIA RTX PRO™ 6000 Blackwell Server Edition
Memory	Slot Count: 24 DIMM slots Max Memory (1DPC): 6.0TB 6400MT/s ECC DDR5 RDIMM
Drive Bays	Default: Total 8 bays8 front hot-swap E1.S NVMe drive bays
Fans	10 Fan 80mm Fan(s)
Power Supply	4x 3200W Redundant (3 + 1) Titanium Level (96%) power supplies

Full Specifications — SYS-422GL-NR

Product SKUs

Part numbers	SYS-422GL-NR

Motherboard

Motherboard	Super X14DBG-MAP

Processor

CPU	Dual Socket BR (LGA-7529) Intel® Xeon® 6900 series processors with P-cores
Core Count	128C/256T
Note	Supports up to 500W TDP CPUs (Air Cooled)

GPU

Max GPU Count	Up to 8 double-width GPUs
Supported GPU	NVIDIA PCIe: H200 NVL (141GB), NVIDIA RTX PRO™ 4500 Blackwell Server Edition, NVIDIA RTX PRO™ 6000 Blackwell Server Edition View GPU Options
CPU-GPU Interconnect	PCIe 5.0 x16 Switch Dual-Root
GPU-GPU Interconnect	NVIDIA® NVLink™ Bridge (optional)

System Memory

Memory	Slot Count: 24 DIMM slots Max Memory (1DPC): 6.0TB 6400MT/s ECC DDR5 RDIMM Max Memory (1DPC): 6.0TB 8800MT/s ECC DDR5 MRDIMM View Memory Options
Memory Voltage	1.1V

On-Board Devices

Network Connectivity	1 RJ45 1GBASE-T with ASPEED AST2600 View AOC Options

Input / Output

USB	1 USB 3.0 Type-A port (Rear)
Video	1 mini-DP port
TPM	1 TPM header

System BIOS

BIOS Type	AMI 32MB UEFI

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

Certifications

Operating Systems	Oracle Linux 9.6, RHEL 10.0, Windows Server 2025 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	4U Rackmount
Model	CSE-MG401TS-R0ANDFP1

Dimensions and Weight

Height	6.93" (176 mm)
Width	17.26" (438.4 mm)
Depth	31.5" (800 mm)
Package	27.32" (H) x 49.41" (W) x 19.49" (D)
Weight	Gross Weight: 96.45 lbs (43.75 kg) Net Weight: 49.5 lbs (22.45 kg)
Available Color	Silver

Front Panel

Buttons	Power On/Off button

Expansion Slots

PCI-Express (PCIe) Configuration	Default8 PCIe 5.0 x16 FHFL double-width slots 4 PCIe 5.0 x16 FHHL slots Option A1 PCIe 5.0 x16 HHHL slot View AOC Options

Drive Bays / Storage

Drive Bays Configuration	Default: Total 8 bays8 front hot-swap E1.S NVMe drive bays View NVMe Options
M.2	2 M.2 PCIe 4.0 x4 NVMe slots (M-key 2280(default)) View M.2 Options

System Cooling

Fans	10 Fan 80mm Fan(s)

Power Supply

4x 3200W Redundant (3 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 185 mm
Input	1000W: 100-127Vac / 50-60Hz 2900W: 200-207Vac / 50-60Hz 3000W: 207-220Vac / 50-60Hz 3200W: 220-240Vac / 50-60Hz 3200W: 0240Vdc / 50-60Hz (for CQC only)
+12V	Max: 82A / Min: 0A (100Vac-127Vac) Max: 237.7A / Min: 0A (200Vac-207Vac) Max: 245.9A / Min: 0A (207Vac-220Vac) Max: 262.3A / Min: 0A (220Vac-240Vac)
12V SB	Max: 3A / 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 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)