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

Supermicro SYS-422GA-NBRT-LCC

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

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Form Factor **4U Rackmount**	CPU **Intel® Xeon® 6900 series processors with P-cores**
GPU **8 onboard GPUs**	Memory **Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM**

Key Features

- Complete liquid-cooled rack integration is required for purchase
- Dual Intel® Xeon® 6900 series processors with P-cores
- 8x NVIDIA SXM B200 GPUs, 1.4TB of GPU memory space
- 24x DIMM slots, ECC RDIMM / MRDIMM DDR5 up to 8800MT/s (1DPC)
- 10x PCIe 5.0 x16 LP, 2x PCIe 5.0 x16 FHHL slots
- 8x front hot-swap 2.5" NVMe U.2, 2x front hot-swap NVMe M.2
- 2x 10GbE RJ-45, 1x Dedicated BMC/IPMI

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	8 onboard GPUs
Supported GPU	NVIDIA SXM: HGX B200 8-GPU (180GB)
Memory	Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM
Drive Bays	Default: Total 8 bays8 front hot-swap 2.5" NVMe drive bays
Fans	Up to 5 Fan 60mm Fan(s)
Power Supply	4x 6600W Redundant (2 + 2) Titanium Level (96%) power supplies

Full Specifications — SYS-422GA-NBRT-LCC

Product SKUs

Part numbers	SYS-422GA-NBRT-LCC

Motherboard

Motherboard	Super X14DBG-DAP

Processor

CPU	Dual Socket BR (LGA-7529) Intel® Xeon® 6900 series processors with P-cores
Core Count	Up to 128C/256T; Up to 504MB Cache per CPU
Note	Supports up to 500W TDP CPUs (Liquid Cooled)

GPU

Max GPU Count	8 onboard GPUs
Supported GPU	NVIDIA SXM: HGX B200 8-GPU (180GB) View GPU Options
CPU-GPU Interconnect	PCIe 5.0 x16 CPU-to-GPU Interconnect
GPU-GPU Interconnect	NVIDIA® NVLink™ with NVSwitch™

System Memory

Memory	Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM Max Memory (1DPC): Up to 6TB 8800MT/s ECC DDR5 MRDIMM View Memory Options
Memory Voltage	1.1V

On-Board Devices

Network Connectivity	2 RJ45 10GbE with Intel® X710-AT2 View AOC Options

Input / Output

Video	1 VGA port

System BIOS

BIOS Type	AMI 64MB 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

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 10.0, RHEL 9.4, RHEL 10.0 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	4U Rackmount
Model	CSE-GP403TS-R000NP

Dimensions and Weight

Height	6.85" (174 mm)
Width	17.6" (449 mm)
Depth	35.25" (895.35 mm)

Package	16.14" (H) x 28.7" (W) x 50.39" (D)
Weight	Gross Weight: 236 lbs (107 kg) Net Weight: 203 lbs (92 kg)
Available Color	Silver

Front Panel

Buttons	Power On/Off UID/ Reset button
LED	Network activity LEDs System information (overheat/UID) UID

Expansion Slots

PCI-Express (PCIe) Configuration	Default10 PCIe 5.0 x16 LP slots 2 PCIe 5.0 x16 FHHL slots View AOC Options

Drive Bays / Storage

Drive Bays Configuration	Default: Total 8 bays8 front hot-swap 2.5" NVMe drive bays View NVMe Options
M.2	2 M.2 NVMe slots (M-key) View M.2 Options

System Cooling

Fans	Up to 5 Fan 60mm Fan(s)
Liquid Cooling	Direct to Chip (D2C) Cold Plate

Power Supply

4x 6600W Redundant (2 + 2) Titanium Level (96%) power supplies

Dimension (WxHxL)	106.5 x 82.1 x 245.3 mm
Input	5900W: 200-207.9Vac / 50-60Hz 6000W: 208-219.9Vac / 50-60Hz 6300W: 220-229.9Vac / 50-60Hz 6500W: 230-238.9Vac / 50-60Hz 6600W: 239-240Vac / 50-60Hz
+12V	Max: 130A / Min: 0A (200Vac-207.9Vac) Max: 130A / Min: 0A (208Vac-219.9Vac) Max: 130A / Min: 0A (220Vac-229.9Vac) Max: 130A / Min: 0A (230Vac-238.9Vac) Max: 130A / Min: 0A (239Vac-240Vac)
12V SB	Max: 4A / Min: 0A

Output Type	Backplanes (gold finger)
Certification	Titanium Level [Test Report]

Operating Environment

Environmental Spec.	Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -5°C to 60°C (23°F to 140°F) Operating Relative Humidity: 8% to 80% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)