Intel Xeon (X14) | 5U Rackmount | GPU Server

Supermicro SYS-522GA-NRT

Intel Xeon (X14) · 5U Rackmount · GPU Server Server

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Form Factor **5U Rackmount**	CPU **Intel® Xeon® 6900 series processors with P-cores**
GPU **Up to 8 double-width or 10 single-width GPUs**	Memory **Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM**

Key Features

- Dual Intel® Xeon® 6900 series processors with P-cores, up to 500W TDP
- Support for up to 10x PCIe GPU accelerator cards
- 24 DIMM slots, ECC RDIMM / MRDIMM DDR5
- Up to 13 PCIe 5.0 x16 FHFL slots
- 24x U.2/U.3 NVMe and 2x M.2 NVMe
- Flexible networking with AIOM slots

Form Factor	5U 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 or 10 single-width GPUs
Supported GPU	NVIDIA PCIe: NVIDIA RTX PRO™ 4500 Blackwell Server Edition, NVIDIA RTX PRO™ 6000 Blackwell Server Edition
Memory	Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM
Drive Bays	Default: Total 24 bays24 front hot-swap 2.5" PCIe 5.0 NVMe drive bays
Fans	Up to 10 heavy duty fans with optimal fan speed control
Power Supply	6x 2700W Redundant (4 + 2) Titanium Level (96%) power supplies

Full Specifications — SYS-522GA-NRT

Product SKUs

Part numbers	SYS-522GA-NRT

Motherboard

Motherboard	Super X14DBG-AP

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 (Air Cooled)

GPU

Max GPU Count	Up to 8 double-width or 10 single-width GPUs
Supported GPU	NVIDIA PCIe: 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): 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 AIOM Options View AOC Options

Input / Output

LAN	2 RJ45 10 GbE LAN ports (Intel® I350)
USB	2 USB 3.0 Type-A ports (Rear)
Video	1 VGA port

System BIOS

BIOS Type	AMI 32MB 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!
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 9.6, RHEL 10.0, RHEL AI 3.3, Windows Server 2025 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	5U Rackmount
Model	CSE-528G2TS-R9K60P

Dimensions and Weight

Height	8.75" (222.5 mm)
Width	17.2" (438 mm)
Depth	31" (786.1 mm)

Package	17.32" (H) x 28.34" (W) x 42.51" (D)
Weight	Gross Weight: 100 lbs (45.3 kg) Net Weight: 65.5 lbs (29.7 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	Default13 PCIe 5.0 x16 FHFL slots View AOC Options
M.2	2 M.2 PCIe 5.0 x4 NVMe slots (B+M-key)

Drive Bays / Storage

Drive Bays Configuration	Default: Total 24 bays24 front hot-swap 2.5" PCIe 5.0 NVMe drive bays View NVMe Options
M.2	2 M.2 NVMe slots (M-key) View M.2 Options

System Cooling

Fans	Up to 10 heavy duty fans with optimal fan speed control
Air Shroud	1 Air Shroud

Power Supply

6x 2700W Redundant (4 + 2) Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 203 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: -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)