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

Supermicro SYS-422GA-NRT

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

Specifications reproduced from the official Supermicro product page, as of 17 Nov 2026. Taknet Systems (Thailand) is a Supermicro Authorized Distributor.



Form Factor	4U Rackmount
CPU	Intel® Xeon® 6900 series processors with P-cores
GPU	Up to 2 quad-width or 2 triple-width or 8 double-width or 10 single-width GPUs
Memory	Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM

Key Features

- Dual Socket BR (LGA-7529) Intel® Xeon® 6900 series processors with P-cores up to 500W with air cooling
- Support up to 8 double-width 600W PCIe GPU accelerator cards at 35°CSupport 8 NVIDIA RTX PRO 6000 Blackwell Server Edition+ 5 NVIDIA BlueField-3 at 35°C
- Up to 24 DIMMs supporting up to 6TB DDR5-6400 in 1DPC or 6TB DDR5-8800 in 1DPC
- Flexible networking with up to AIOM slots
- Up to 13 PCIe 5.0 x16 FHFL slots

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 2 quad-width or 2 triple-width or 8 double-width or 10 single-width GPUs
Supported GPU	NVIDIA PCIe: H200 NVL (141GB), NVIDIA RTX PRO™ 4500 Blackwell Server Edition, NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation 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	Option A: Total 8 bays8 front hot-swap E3.S 1T PCIe 5.0 x4 NVMe drive bays
Fans	10x 8cm heavy duty fans with optimal fan speed control
Power Supply	4x 3200W Redundant (3 + 1) Titanium Level (96%) power supplies

Full Specifications — SYS-422GA-NRT

Product SKUs

Part numbers	SYS-422GA-NRT SYS-422GA-NRT-01-G2 Gold Series version with pre-configured components SYS-422GA-NRT-02-G2 Gold Series version with pre-configured components

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 2 quad-width or 2 triple-width or 8 double-width or 10 single-width GPUs
Supported GPU	NVIDIA PCIe: H200 NVL (141GB), NVIDIA RTX PRO™ 4500 Blackwell Server Edition, NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation 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® X710)
USB	2 USB 3.0 Type-A ports (Rear)
Video	1 VGA port

TPM	1 TPM header

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 10.0, RHEL 9.6, RHEL 10.0, RHEL AI 3.3, SLES 16.0, Ubuntu 24.04 LTS, Windows Server 2025 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	4U Rackmount
Model	CSE-418G3TS-R6K40P

Dimensions and Weight

Height	7" (178 mm)
Width	17.2" (437 mm)
Depth	29" (737 mm)
Package	26.57" (H) x 27" (W) x 41" (D)
Weight	Gross Weight: 100 lbs (45.3 kg) Net Weight: 65.5 lbs (29.7 kg)
Available Color	Black Front & Silver Body

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	Option A: Total 8 bays8 front hot-swap E3.S 1T PCIe 5.0 x4 NVMe drive bays Option B: Total 8 bays8 front hot-swap E3.L 1T PCIe 5.0 x4 NVMe drive bays Option C: Total 8 bays8 front hot-swap 2.5" PCIe 5.0 x4 NVMe drive bays View NVMe Options
M.2	2 M.2 NVMe slots (M-key) View M.2 Options

System Cooling

Fans	10x 8cm heavy duty fans with optimal fan speed control
Air Shroud	1 Air Shroud

Power Supply

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

Dimension (WxHxL)	73.5 x 40 x 203 mm
Input	1400W: 100-127Vac / 50-60Hz 2900W: 200-207Vac / 50-60Hz 3000W: 207.1-219Vac / 50-60Hz 3200W: 219.1-240Vac / 50-60Hz 3200W: 240Vdc / 50-60Hz (for CQC only)
+12V	Max: 116.6A / Min: 0A (100Vac-127Vac) Max: 241.6A / Min: 0A (200Vac-207Vac) Max: 250A / Min: 0A (207.1Vac-219Vac) Max: 266.6A / Min: 0A (219.1Vac-240Vac)
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)