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

# Supermicro SYS-422GB-NRT

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

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| Form Factor | CPU |
|---|---|
| 4U Rackmount | Intel® Xeon® 6700/6500 series processors with P-cores |

| GPU | Memory |
|---|---|
| Up to 2 quad-width or 2 triple-width or 8 double-width or 10 single-width GPUs | Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM |

## Key Features

- Dual Socket E2 (LGA-4710) Intel® Xeon® 6700/6500-series processors with P-cores up to 350W with air cooling
- Support for up to 8 double-width PCIe GPU accelerator cards
- Up to 32 DIMMs supporting 4TB DDR5-6400MT/s or 8000MT/s in 1DPC or 8TB DDR5-5200MT/s in 2DPC
- Flexible networking with up to AIOM slots
- Up to 13 PCIe 5.0 x16 FHFL slots
- 4 Redundant 3200W Titanium Level power supplies

| | |
|---|---|
| **Form Factor** | 4U Rackmount |
| **Platform** | Intel Xeon (X14) |
| **CPU** | Dual Socket E2 (LGA-4710)<br>Intel® Xeon® 6700/6500 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: NVIDIA RTX PRO™ 6000 Blackwell Server Edition |
| **Memory** | Slot Count: 32 DIMM slots<br>Max Memory (1DPC): Up to 4TB 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-422GB-NRT

## Product SKUs

| | |
|---|---|
| **Part numbers** | SYS-422GB-NRT |

## Motherboard

| | |
|---|---|
| **Motherboard** | Super X14DBG-SP |

## Processor

| | |
|---|---|
| **CPU** | Dual Socket E2 (LGA-4710)<br>Intel® Xeon® 6700/6500 series processors with P-cores |
| **Core Count** | Up to 128C/256T; Up to 504MB Cache per CPU |
| **Note** | Supports up to 350W 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: NVIDIA RTX PRO™ 6000 Blackwell Server Edition<br>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: 32 DIMM slots<br>Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM<br>Max Memory (1DPC): Up to 4TB 8800MT/s ECC/non-ECC DDR5 MRDIMM (P-core only)<br>Max Memory (2DPC): Up to 8TB 6000MT/s ECC DDR5 RDIMM<br>View Memory Options |
| **Memory Voltage** | 1.1V |

## On-Board Devices

| | |
|---|---|
| **Network Connectivity** | 2 RJ45 10GbE with Intel® X710-AT2<br>View AIOM Options<br>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

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|---|---|
| **Software** | SuperCloud Composer® (SCC)<br>Supermicro Server Manager (SSM)<br>Super Diagnostics Offline (SDO)<br>Supermicro Thin-Agent Service (TAS)<br>SuperServer Automation Assistant (SAA) New! |
| **Power configurations** | Power-on mode for AC power recovery<br>ACPI Power Management |

## Security

| | |
|---|---|
| **Hardware** | Trusted Platform Module (TPM) 2.0<br>Silicon Root of Trust (RoT) – NIST 800-193 Compliant |
| **Features** | Cryptographically Signed Firmware<br>Secure Boot<br>Secure Firmware Updates<br>Automatic Firmware Recovery<br>Supply Chain Security: Remote Attestation<br>Runtime BMC Protections<br>System Lockdown |

## PC Health Monitoring

| | |
|---|---|
| **CPU** | 8+4 Phase-switching voltage regulator<br>Monitors for CPU Cores, Chipset Voltages, Memory |
| **Fan** | Fans with tachometer monitoring<br>Pulse Width Modulated (PWM) fan connectors<br>Status monitor for speed control |
| **Temperature** | Monitoring for CPU and chassis environment<br>Thermal Control for fan connectors |

## Certifications

| | |
|---|---|
| **Operating Systems** | ESXi 8.0U3, ESXi 9.0, ESXi 9.1, RHEL 10.0, Windows Server 2022, Windows Server 2025<br>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)<br>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<br>View AOC Options |
| **M.2** | 2 M.2 PCIe 5.0 x4 NVMe slots (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<br>Option B: Total 8 bays8 front hot-swap E3.L 1T PCIe 5.0 x4 NVMe drive bays<br>Option C: Total 8 bays8 front hot-swap 2.5" PCIe 5.0 x4 NVMe drive bays<br>View NVMe Options |
| **M.2** | 2 M.2 NVMe slots (M-key)<br>View M.2 Options |

## System Cooling

| | |
|---|---|
| **Fans** | 10x 8cm heavy duty fans with optimal fan speed control |
| **Air Shroud** | 4 Air Shrouds |

## 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<br>2900W: 200-207Vac / 50-60Hz<br>3000W: 207.1-219Vac / 50-60Hz<br>3200W: 219.1-240Vac / 50-60Hz<br>3200W: 240Vdc / 50-60Hz (for CQC only) |
| **+12V** | Max: 116.6A / Min: 0A (100Vac-127Vac)<br>Max: 241.6A / Min: 0A (200Vac-207Vac)<br>Max: 250A / Min: 0A (207.1Vac-219Vac)<br>Max: 266.6A / Min: 0A (219.1Vac-240Vac) |
| **12V SB** | Max: 4A / Min: 0A |

| | |
|---|---|
| **Output Type** | Backplanes (gold finger) |

## Operating Environment

| | |
|---|---|
| **RoHS** | RoHS Compliant |
| **Environmental Spec.** | Operating Temperature: 10°C to 35°C (50°F to 95°F)<br>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)<br>Operating Relative Humidity: 8% to 90% (Non-Condensing)<br>Non-operating Relative Humidity: 5% to 95% (Non-Condensing) |