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

Supermicro SYS-422GS-NB3RT-ALC

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

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Form Factor **4U Rackmount**	CPU **Intel® Xeon® 6700 series processors with P-cores**
GPU **8 onboard GPUs**	Memory **Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM**

Key Features

- Complete liquid-cooled rack integration is required for purchase
- DLC-2 supporting up to 95% of heat capture via cold plates (with max config)
- Dual Intel® Xeon® 6700 series processors with P-cores, up to 350W TDP
- NVIDIA HGX B300 8-GPU with 5th Generation NVLink® 1.8TB/s, 2.3TB of HBM3e GPU memory per system
- 32x DIMMs with up to 8TB at 5200MT/s or up to 4TB at 6400MT/s DDR5 RDIMM
- 8x NVIDIA ConnectX®-8 SuperNICs (up to 800Gb/s) and 4x PCIe Gen 5 x16 slots
- 8x Hot-swap E1.S NVMe storage drive bays and 2x M.2 NVMe boot drives
- 4x redundant (2+2) 6.6kW Titanium level power supplies

Form Factor	4U Rackmount
Platform	Intel Xeon (X14)
CPU	Dual Socket E2 (LGA-4710) Intel® Xeon® 6700 series processors with P-cores
Max GPU Count	8 onboard GPUs
Supported GPU	NVIDIA SXM: HGX B300 8-GPU (288GB)
Memory	Slot Count: 32 DIMM slots Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM
Drive Bays	Default: Total 8 bays8 front hot-swap E1.S NVMe drive bays
Fans	6x 80mm Fan(s)
Power Supply	4x 6600W Redundant (2 + 2) Titanium Level (96%) power supplies

Full Specifications — SYS-422GS-NB3RT-ALC

Product SKUs

Part numbers	SYS-422GS-NB3RT-ALC

Motherboard

Motherboard	Super X14DBG-LC

Processor

CPU	Dual Socket E2 (LGA-4710) Intel® Xeon® 6700 series processors with P-cores
Core Count	Up to 86C/172T; Up to 336MB Cache per CPU
Note	Supports up to 350W TDP CPUs (Liquid Cooled)

GPU

Max GPU Count	8 onboard GPUs
Supported GPU	NVIDIA SXM: HGX B300 8-GPU (288GB) View GPU Options
GPU-GPU Interconnect	NVIDIA® NVLink™ with NVSwitch™

System Memory

Memory	Slot Count: 32 DIMM slots Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 8TB 6000MT/s ECC DDR5 RDIMM View Memory Options
Memory Voltage	1.1V

On-Board Devices

Network Connectivity	View AOC Options

Input / Output

LAN	2 RJ45 10 GbE LAN ports (Intel® X710) 8 OSFP 800 Gb/s InfiniBand LAN ports (NVIDIA ConnectX®-8 SuperNIC™)
USB	1 USB 3.0 Type-A port (Front) 1 USB 2.0 Type-A port (Front)
Video	1 VGA port 1 mini-DP port
TPM	1 TPM header

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	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	RHEL 9.6 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	4U Rackmount
Model	CSE-GP405TS-R000NP2

Dimensions and Weight

Height	6.85" (174 mm)

Width	17.6" (448 mm)
Depth	39.03" (991.4 mm)
Package	16.14" (H) x 31.29" (W) x 54.92" (D)
Weight	Gross Weight: 258 lbs (117 kg) Net Weight: 222 lbs (101 kg)
Available Color	Silver

Front Panel

Buttons	Power On/Off UID
LED	HDD activity LAN1 activity LAN2 activity Power Fail Power status

Expansion Slots

PCI-Express (PCIe) Configuration	Default2 PCIe 5.0 x16 FHHL slots 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 NVMe slots (M-key; RAID support via S3808N controller) View M.2 Options

System Cooling

Fans	6x 80mm 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 x 335 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: 111.1A / Min: 0A (200Vac-240Vac) (109.3A only for 5900W) Max: 130A / Min: 0A (200Vac-240Vac)

12V SB	Max: 4A / Min: 0A
Output Type	Backplanes (gold finger)
Certification	Titanium Level

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)