Intel Xeon (X14) | 2 OU Rackmount | GPU Server

Supermicro SYS-222GS-NB3OT-ALC

Intel Xeon (X14) · 2 OU Rackmount · GPU Server · Liquid Cooling Server

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Form Factor **2 OU 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

- 21” OCP ORV3 Rack compatible, 1400A busbar with power shelves, DC-SCM Support
- 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
- 8x NVIDIA ConnectX®-8 SuperNICs, up to 800Gb/s, up to two NICs for North/South traffic
- 32x DIMMs with up to 8TB at 5200MT/s or up to 4TB at 6400MT/s DDR5 RDIMM
- 8x Hot-swap E1.S NVMe storage drive bays and 2x M.2 NVMe boot drives
- 2x 10GbE RJ45 via AIOM card

Form Factor	2 OU 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	Up to 4 Fan 80mm Fan(s)
Power Supply	Power via Busbar (48-52V DC)

Full Specifications — SYS-222GS-NB3OT-ALC

Product SKUs

Part numbers	SYS-222GS-NB3OT-ALC

Motherboard

Motherboard	Super X14DBG-LC2

Processor

CPU	Dual Socket E2 (LGA-4710) Intel® Xeon® 6700 series processors with P-cores
Core Count	Up to 86C/172T; Up to 335MB 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
CPU-GPU Interconnect	PCIe 5.0 x16 CPU-to-GPU Interconnect
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™) 1 RJ45 1 GbE Dedicated BMC LAN port (ASPEED AST2600) (via DC-SCM)
Video	1 VGA port (Front)
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 10.0, Ubuntu 24.04 LTS View all OS Compatibility and Certification Matrix

Chassis

Form Factor	2 OU Rackmount
Model	CSE-GP202TS-000NP

Dimensions and Weight

Height	3.7" (94 mm)
Width	21.1" (537 mm)
Depth	31.69" (805 mm)

Package	12.79" (H) x 28.74" (W) x 50.39" (D)
Weight	Gross Weight: 176 lbs (80 kg) Net Weight: 154 lbs (70 kg)
Available Color	Silver

Front Panel

Buttons	Power On/Off
LED	Network activity LEDs UID

Expansion Slots

PCI-Express (PCIe) Configuration	Default2 PCIe 5.0 x16 (in 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	Up to 4 Fan 80mm Fan(s) Up to 4 Fan 40mm Fan(s)
Air Shroud	3 Air Shrouds
Liquid Cooling	Direct to Chip (D2C) Cold Plate

Power Supply

Power	Power via Busbar (48-52V DC)
Power	Power via Busbar (48-52V DC)

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)