AI Training SuperServer SYS-822GA-NGR3 (Complete System Only 0)

New

SUPERMICE

8U AI training platform with 8 Gaudi® 3 accelerators















Key Applications

- Industrial Automation
- Drug Discovery
- Massive-scale Al Training • Climate and Weather Modeling
- LLMs & Multi-modal LLMs Fraud Detection and Fintech

Key Features

- 1. Dual Intel[®] Xeon[®] 6900 series processors with P-cores
- 2. Support for up to 24 DIMMs DDR5-6400 and 8800MT/s MRDIMMs
- 3. Support for 8 Gaudi® 3 OAM GPUs
- 4. 6 On-board OSFP 800GbE ports
- 5. Up to 2 PCle 5.0 x16 FHFL and 2 PCle 5.0 x8 FHFL slots Default AIOM dual port 10GBase-T
- 6. Up to 8 2.5" hot-swap NVMe Gen5 drive bays
- 7. 8x 3000W (4+4) redundant Titanium level power supplies



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Specifications	Resources & Downloads	Parts List

-		
Product SKUs		
SuperServer SYS-822GA-NGR3		
Motherboard		
Super X14DBG-GD		
Processor		
СРИ	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 onboard GPUs	
Supported GPU	Intel OAM: Gaudi 3 <u>View GPU Options</u> >	
CPU-GPU Interconnect	PCIe Gen5 x16	
GPU-GPU Interconnect	24x 200Gbe (48 x 112Gbps) PAM4 SerDes links split	
System Memory		

Memory

On-Board Devices Chipset System on Chip 6 OSFP 800GbE **Network Connectivity**

<u>View AIOM Options</u> > View AOC Options >

Slot Count: 24 DIMM slots

<u>View Memory Options</u> >

RDIMM/LRDIMM

Input / Output

1 RJ45 1 GbE Dedicated BMC LAN port LAN 2 USB 3.0 Type-A ports **USB**

Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5

Max Memory (1DPC): Up to 6TB 8800MT/s ECC DDR5 MRDIMM

Video 1 VGA port

System BIOS

BIOS Type AMI 32MB SPI Flash EEPROM

Management

SuperCloud Composer Software Supermicro Server Manager (SSM) Super Diagnostics Offline (SDO)

Supermicro Thin-Agent Service (TAS)

<u>SuperServer Automation Assistant (SAA) New!</u>

Power-on mode for AC power recovery **Power configurations ACPI Power Management**

Security

Trusted Platform Module (TPM) 2.0 Hardware Silicon Root of Trust (RoT) – NIST 800-193 Compliant

Cryptographically Signed Firmware **Features** Secure Boot

Secure Firmware Updates **Automatic Firmware Recovery** System Lockdown

PC Health Monitoring

Monitors for CPU Cores, Chipset Voltages, Memory CPU 7+1 Phase-switching voltage regulator

Monitoring for CPU and chassis environment

Fans with tachometer monitoring **FAN** Status monitor for speed control

Thermal Control for fan connectors

Pulse Width Modulated (PWM) fan connectors

Chassis 8U Rackmount Form Factor CSE-GP806TS-R000NPF Model **Dimensions and Weight Height** 13.8" (356 mm) **Width** 17.6" (447 mm) **Depth** 33.2" (800 mm) **Package** 27.6" (H) x 51" (W) x 29.5" (D)

Gross Weight: 282 lbs (128 kg)

Net Weight: 308 lbs (140 kg)

Available Color Silver

Weight

Front Panel

Buttons Power On/Off

Default

Expansion Slots

PCI-Express (PCIe) Configuration

2 PCIe 5.0 x16 FHFL slots

2 PCIe 5.0 x8 FHFL slots 1 PCIe 5.0 x4 AIOM slot (OCP 3.0 compatible)

<u>View AOC Options</u> >

M.2 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 22110(default))

Drive Bays / Storage

Default: Total 8 bays **Drive Bays** 8 front hot-swap 2.5" PCIe 5.0 NVMe drive bays Configuration

View NVMe Options >

M.2 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 22110(default)) View M.2 Options >

System Cooling

10 Removable Heavy-Duty 80 x 80 x 80mm Fan(s)

Power Supply

8x 3000W Redundant Titanium Level (96%) power supplies

Dimension (WxHxL) 106.5 x 82.4 x 203.5 mm

Total Output Power

Input 2880W: 200-207Vac 2880W: 200-207Vac / 50-60Hz 3000W: 207.1-240Vac 3000W: 207.1-240Vac / 50-60Hz 3000W: 240Vdc 3000W: 240Vdc / 50-60Hz

+12V Max: 91.66A / Min: 0A (200Vac-240Vac) Max: 91.66A / Min: 0A (Vdc-240Vdc)

Backplanes (gold finger)

12V SB Max: 4A / Min: 0A

Operating Environment

RoHS Compliant ROHS

Output Type

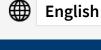
Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) **Environmental Spec.**

Non-operating Temperature: -30°C to 60°C (-22°F to 140°F) Operating Relative Humidity: 8% to 80% (non-condensing) Non-operating Relative Humidity: 8% to 90% (non-condensing)

Certain products may not be available in your region



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