

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

New

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8U AI training platform with 8 Gaudi® 3 accelerators



Key Applications

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

Key Features

- Dual Intel® Xeon® 6900 series processors with P-cores
 - Support for up to 24 DIMMs DDR5-6400 and 8800MT/s MRDIMMs
 - Support for 8 Gaudi® 3 OAM GPUs
 - 6 On-board OSFP 800GbE ports
 - Up to 2 PCIe 5.0 x16 FHFL and 2 PCIe 5.0 x8 FHFL slots
Default AIOM dual port 10GBase-T
 - Up to 8 2.5" hot-swap NVMe Gen5 drive bays
 - 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		
<u>Super X14DBG-GD</u>		
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 8 onboard GPUs	
Supported GPU	Intel OAM: Gaudi 3 View GPU Options >	
CPU-GPU Interconnect	PCIe Gen5 x16	
GPU-GPU Interconnect	24x 200Gbe (48 x 112Gbps) PAM4 SerDes links split	
System Memory		
Memory	Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM/LRDIMM Max Memory (1DPC): Up to 6TB 8800MT/s ECC DDR5 MRDIMM View Memory Options >	
On-Board Devices		
Chipset	System on Chip	
Network Connectivity	6 OSFP 800GbE View AIOM Options > View AOC Options >	
Input / Output		
LAN	1 RJ45 1 GbE Dedicated BMC LAN port	
USB	2 USB 3.0 Type-A ports	
Video	1 VGA port	
System BIOS		
BIOS Type	AMI 32MB SPI Flash EEPROM	
Management		
Software	SuperCloud Composer 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 System Lockdown	
PC Health Monitoring		
CPU	Monitors for CPU Cores, Chipset Voltages, Memory 7+1 Phase-switching voltage regulator	
FAN	Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors	
Temperature	Monitoring for CPU and chassis environment Thermal Control for fan connectors	

Chassis	
Form Factor	8U Rackmount
Model	CSE-GP806TS-R000NPF
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)
Weight	Gross Weight: 282 lbs (128 kg) Net Weight: 308 lbs (140 kg)
Available Color	Silver
Front Panel	
Buttons	Power On/Off
Expansion Slots	
PCI-Express (PCIe) Configuration	Default 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) View AOC Options >
M.2	2 M.2 PCIe 5.0 x2 NVMe slots (M-key 22110(default))
Drive Bays / Storage	
Drive Bays Configuration	Default: Total 8 bays 8 front hot-swap 2.5" PCIe 5.0 NVMe drive bays View NVMe Options >
M.2	2 M.2 PCIe 5.0 x2 NVMe slots (M-key 22110(default)) View M.2 Options >
System Cooling	
Fans	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)
12V SB	Max: 4A / Min: 0A
Output Type	Backplanes (gold finger)
Operating Environment	
ROHS	RoHS Compliant
Environmental Spec.	Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) 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)

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