

GPU SuperServer SYS-A22GA-NBRT (Complete System Only) Coming Soon

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DP Intel 10U System with NVIDIA HGX B200 8-GPU



Key Applications

- AI / Deep Learning
- Conversational AI
- High Performance Computing (HPC)
- Scientific Research
- Drug Discovery

Key Features

- Dual Intel® Xeon® 6900 series processors with P-cores, up to 500W TDP, 6UPI
- Support for up to 8 onboard SXM GPU accelerator cards
- 24 DIMM slots, ECC DDR5 designed for up to 6400MT/s (1DPC only)
- 2 10G NIC (X710), 1 VGA, 2 USB 3.0, and 1 Dedicated IPMI
- 8 PCIe 5.0 x16 LP and 2 PCIe 5.0 x16 FHHL
- 10 PCIe 5.0 NVMe U.2 and 2 NVMe M.2

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Specifications

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Product SKUs

SuperServer **SYS-A22GA-NBRT**

Motherboard

Super X14DBG-DAP

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 NVIDIA SXM: HGX B200 8-GPU (180GB)
[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: 24 DIMM slots
Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM
Max Memory (1DPC): Up to 6TB 8800MT/s ECC DDR5 MRDIMM
[View Memory Options >](#)

On-Board Devices

Chipset System on Chip

Network Connectivity 2 RJ45 10GbE with Intel® X710
[View AOC Options >](#)

Input / Output

LAN 1 RJ45 1 GbE Dedicated BMC LAN port

USB 2 USB 3.0 ports(rear)

Video 1 VGA port

TPM 1 TPM header

System BIOS

BIOS Type AMI 64MB SPI Flash

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
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
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 10U Rackmount

Model **CSE-GP1001TS-R000NPF**

Dimensions and Weight

Height 17.2" (438.8 mm)

Width 17.6" (449 mm)

Depth 33.2" (843.28 mm)

Package 25.2" (H) x 49.4" (W) x 27.3" (D)

Weight Gross Weight: 183 lbs (83.1 kg)
Net Weight: 122.7 lbs (55.64 kg)

Available Color Silver

Front Panel

LED HDD activity
Network activity LEDs
System information (overheat/UID)
UID

Buttons Power On/Off
UID/ Reset button

Expansion Slots

PCI-Express (PCIe) Configuration Default
8 PCIe 5.0 x16 LP slots
2 PCIe 5.0 x16 FHHL slots
Option A
2 PCIe 5.0 x16 LP slots
[View AOC Options >](#)

Drive Bays / Storage

Drive Bays Configuration Default: Total 10 bays
10 front hot-swap 2.5" PCIe 5.0 x4 NVMe drive bays

M.2 2 M.2 PCIe 4.0 x4 NVMe slots (M-key 2280/22110/25110)

System Cooling

Fans 19 counter-rotating 80x80x38mm Fan(s)

Power Supply

6x 5250W Redundant (3 + 3) power supplies

Dimension (WxHxL) 106.5 x 82.1 x 245.3 mm

Input 5250W: 200-240Vac / 50-60Hz

+12V Max: 125A / Min: 0A (200Vac-240Vac)

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

Output Type Backplanes (gold finger)

Certification

[\[Test Report \]](#)

Operating Environment

Environmental Spec. Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)
Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)
Operating Relative Humidity: 8% to 90% (non-condensing)
Non-operating Relative Humidity: 5% to 95% (non-condensing)

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- Very easy Easy Neutral Difficult Very difficult

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