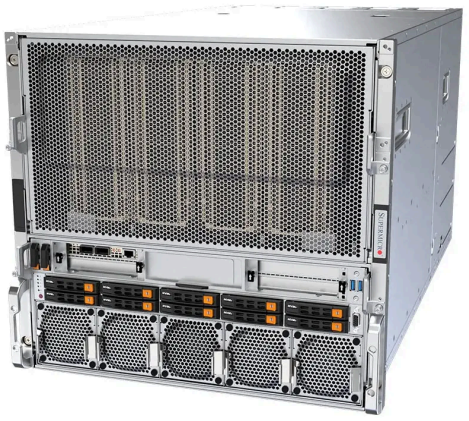
Intel Xeon (X14) | 10U Rackmount | GPU Server

Supermicro SYS-A22GA-NBRT

Intel Xeon (X14) · 10U Rackmount · GPU Server Server

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Form Factor	CPU
10U Rackmount	Intel® Xeon® 6900 series processors with P-cores
GPU	**Memory**
8 onboard GPUs	Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM

Key Features

- Dual Intel® Xeon® 6900 series processors with P-cores
- 8x NVIDIA SXM B200 GPUs, 1.4TB of GPU memory space
- 24x DIMM slots, ECC RDIMM / MRDIMM DDR5 up to 8800MT/s (1DPC)
- 10x PCIe 5.0 x16 LP, 2x PCIe 5.0 x16 FHHL slots
- 10x front hot-swap 2.5" NVMe U.2, 2x front hot-swap NVMe M.2
- 2x 10GbE RJ-45, 1x Dedicated BMC/IPMI

Form Factor	10U Rackmount
Platform	Intel Xeon (X14)
CPU	Dual Socket BR (LGA-7529) Intel® Xeon® 6900 series processors with P-cores
Max GPU Count	8 onboard GPUs
Supported GPU	NVIDIA SXM: HGX B200 8-GPU (180GB)
Memory	Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM
Drive Bays	Default: Total 10 bays10 front hot-swap 2.5" PCIe 5.0 x4 NVMe drive bays
Fans	Up to 15 counter-rotating 80x80x80mm Fan(s)
Power Supply	6x 5250W Redundant (3 + 3) Titanium Level (96%) power supplies

Full Specifications — SYS-A22GA-NBRT

Product SKUs

Part numbers	SYS-A22GA-NBRT

Motherboard

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	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
Memory Voltage	1.1V

On-Board Devices

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 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	ESXi 9.1, Oracle Linux 10.0, RHEL 9.4, RHEL 10.0 View all OS Compatibility and Certification Matrix

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	27.95" (H) x 28.74" (W) x 50.39" (D)
Weight	Gross Weight: 341 lbs (155 kg) Net Weight: 293 lbs (133 kg)
Available Color	Silver

Front Panel

Buttons	Power On/Off UID/ Reset button
LED	HDD activity Network activity LEDs System information (overheat/UID) UID

Expansion Slots

PCI-Express (PCIe) Configuration	Default10 PCIe 5.0 x16 LP slots 2 PCIe 5.0 x16 FHHL slots View AOC Options

Drive Bays / Storage

Drive Bays Configuration	Default: Total 10 bays10 front hot-swap 2.5" PCIe 5.0 x4 NVMe drive bays View NVMe Options
M.2	2 M.2 PCIe 4.0 x4 NVMe slots (M-key 2280/22110; RAID support via S3808N controller) View M.2 Options

System Cooling

Fans	Up to 15 counter-rotating 80x80x80mm Fan(s) Up to 4 counter-rotating 60x60x56mm Fan(s)
Air Shroud	1 Air Shroud

Power Supply

6x 5250W Redundant (3 + 3) Titanium Level (96%) 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	Titanium Level [Test Report]

Operating Environment

Environmental Spec.	Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 80% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)