

# GPU SuperServer SYS-A22GA-NBRT

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



[More details here](#)

## Key Applications

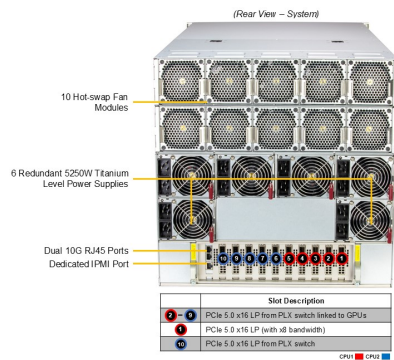
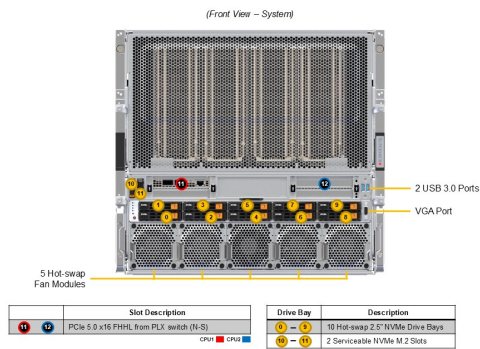
Scientific Research, Conversational AI, Business Intelligence & Analytics, Drug Discovery, Finance Services and Fraud Detection, AI/Deep Learning Training and Inference, Large Language Model (LLM) and Generative AI, High Performance Computing (HPC), Autonomous Vehicle Technologies,

## 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 Enclosure: 449 x 438.8 x 843.28mm (17.6" x 17.2" x 33.2") Package: 730 x 710 x 1280mm (28.74" x 27.95" x 50.39")
Processor	Dual Socket BR (LGA-7529) Intel® Xeon® 6900 series processors with P-cores Up to 128C/256T; Up to 504MB Cache per CPU
GPU	Max GPU Count: 8 onboard GPUs Supported GPU: NVIDIA SXM: HGX B200 8-GPU (180GB) CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: NVIDIA® NVLink™ with NVSwitch™
System 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
Drive Bays Configuration	Default: Total 10 bays <ul style="list-style-type: none"> <li>• 10 front hot-swap 2.5" PCIe 5.0 x4 NVMe drive bays</li> </ul> M.2: 2 M.2 PCIe 4.0 x4 NVMe slots (M-key 2280/22110; RAID support via S3808N controller)
Expansion Slots	Default <ul style="list-style-type: none"> <li>• 10 PCIe 5.0 x16 LP slots</li> <li>• 2 PCIe 5.0 x16 FHHL slots</li> </ul>
On-Board Devices	Chipset: System on Chip Network Connectivity: 2 RJ45 10GbE with Intel® X710
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 Cooling	<p>Fans: Up to 15 counter-rotating 80x80x80mm Fan(s) Up to 4 counter-rotating 60x60x56mm Fan(s)</p> <p>Air Shroud: 1 Air Shroud</p>
Power Supply	6x 5250W Redundant (3 + 3) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 64MB UEFI
Management	SuperCloud Composer®; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	<p>CPU: Monitors for CPU Cores, Chipset Voltages, Memory</p> <p>FAN: Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors</p> <p>Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors</p>
Dimensions and Weight	<p>Weight: Gross Weight: 341 lbs (155 kg) Net Weight: 293 lbs (133 kg)</p> <p>Available Color: Silver</p>
Operating Environment	<p>Operating Temperature: 10°C to 35°C (50°F to 95°F)</p> <p>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</p> <p>Operating Relative Humidity: 8% to 90% (non-condensing)</p> <p>Non-operating Relative Humidity: 5% to 95% (non-condensing)</p>
Motherboard	<a href="#">Super X14DBG-DAP</a>
Chassis	CSE-GP1001TS-R000NPF