

# GPU SuperServer SYS-A22GA-NBRT

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



[More details here](#)

## Key Applications

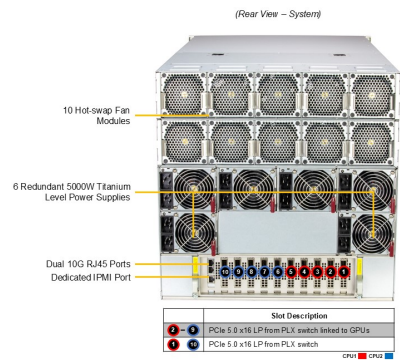
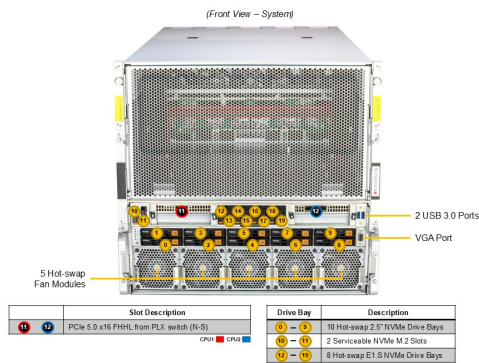
AI / Deep Learning, Scientific Research, Conversational AI, Drug Discovery, High Performance Computing (HPC),

## Key Features

- Dual Intel® Xeon® 6900 series processors with P-cores, up to 500W TDP, 6UPI;
- Supports 8 onboard SXM B200 GPU accelerators;
- 24 DIMM slots, ECC RDIMM / MRDIMM DDR5, up to 6400MT/s (1DPC only);
- 2 10G NIC (X710), 1 VGA, 2 USB 3.0, and 1 Dedicated IPMI;
- 10 PCIe 5.0 x16 LP and 2 PCIe 5.0 x16 FHHL;
- 10 PCIe 5.0 NVMe U.2 and 2 NVMe M.2;



Form Factor	10U Rackmount Enclosure: 449 x 438.8 x 843.28mm (17.6" x 17.2" x 33.2") Package: 1255 x 640 x 694mm (49.4" x 25.2" x 27.3")
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 2280/22110/25110)
Expansion Slots	Default <ul style="list-style-type: none"> <li>• 8 PCIe 5.0 x16 LP slots</li> <li>• 2 PCIe 5.0 x16 FHHL slots</li> </ul> Option A <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x16 LP 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	Fans: 19 counter-rotating 80x80x38mm Fan(s) Air Shroud: 1 Air Shroud
Power Supply	6x 5250W Redundant (3 + 3) power supplies
System BIOS	BIOS Type: AMI 64MB SPI Flash
Management	SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
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
Dimensions and Weight	Weight: Gross Weight: 341 lbs (155 kg) Net Weight: 293 lbs (133 kg) Available Color: Silver
Operating Environment	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)
Motherboard	<a href="#"><u>Super X14DBG-DAP</u></a>
Chassis	CSE-GP1001TS-R000NPF