# 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;

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| Form Factor | 10U Rackmount<br>Enclosure: 449 x 438.8 x 843.28mm (17.6" x 17.2" x 33.2")<br>Package: 730 x 710 x 1280mm (28.74" x 27.95" x 50.39") |
| Processor | Dual Socket BR (LGA-7529)<br>Intel® Xeon® 6900 series processors with P-cores<br>Up to 128C/256T; Up to 504MB Cache per CPU |
| GPU | Max GPU Count: 8 onboard GPUs<br>Supported GPU: NVIDIA SXM: HGX B200 8-GPU (180GB)<br>CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect<br>GPU-GPU Interconnect: NVIDIA® NVLink™ with NVSwitch™ |
| System Memory | Slot Count: 24 DIMM slots<br>Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM<br>Max Memory (1DPC): Up to 6TB 8800MT/s ECC DDR5 MRDIMM |
| Drive Bays Configuration | Default: Total 10 bays<br>• 10 front hot-swap 2.5" PCIe 5.0 x4 NVMe drive bays<br>M.2: 2 M.2 PCIe 4.0 x4 NVMe slots (M-key 2280/22110; RAID support via S3808N controller) |
| Expansion Slots | Default<br>• 10 PCIe 5.0 x16 LP slots<br>• 2 PCIe 5.0 x16 FHHL slots |
| On-Board Devices | 2 RJ45 10GbE with Intel® X710 |
| Input / Output | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>USB: 2 USB 3.0 ports(rear)<br>Video: 1 VGA port<br>TPM: 1 TPM header |

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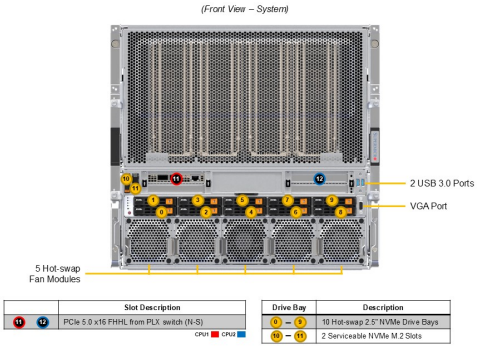


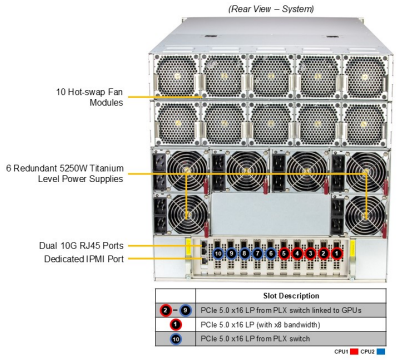


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| System Cooling | Fans: Up to 15 counter-rotating 80x80x80mm Fan(s)<br>Up to 4 counter-rotating 60x60x56mm Fan(s)<br>Air Shroud: 1 Air Shroud |
| Power Supply | 6x 5250W Redundant (3 + 3) Titanium Level (96%) power supplies |
| System BIOS | BIOS 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 | CPU: Monitors for CPU Cores, Chipset Voltages, Memory<br>FAN: Fans with tachometer monitoring<br>Pulse Width Modulated (PWM) fan connectors<br>Status monitor for speed control<br>Temperature: Monitoring for CPU and chassis environment<br>Thermal Control for fan connectors |
| Dimensions and Weight | Weight: Gross Weight: 341 lbs (155 kg)<br>Net Weight: 293 lbs (133 kg)<br>Available Color: Silver |
| Operating Environment | Operating Temperature: 10°C to 35°C (50°F to 95°F)<br>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)<br>Operating Relative Humidity: 8% to 90% (non-condensing)<br>Non-operating Relative Humidity: 5% to 95% (non-condensing) |
| Motherboard | **Super X14DBG-DAP** |
| Chassis | **CSE-GP1001TS-R000NPF** |

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