

GPU SuperServer SYS-A21GE-NBRT

DP Intel 10U System with NVIDIA HGX B200 8-GPU and Rear I/O



More details here

Key Applications

High Performance Computing, AI/Deep Learning Training, Industrial Automation, Retail, Healthcare, Conversational AI, Business Intelligence & Analytics, Drug Discovery, Climate and Weather Modeling, Finance & Economics,

Key Features

- Dual 5th/4th Gen Intel® Xeon® Scalable processors;
- Support for NVIDIA HGX™ B200 8-GPU;
- Up to 32 DIMMs supporting up to 8TB DDR5-4400 in 2DPC or 4TB DDR5-5600 in 1DPC;
- 2 RJ45 10GbE + 2 SFP28 25GbE + 2 RJ45 10GbE;
- Up to 8 PCIe 5.0 x16 LP + 2 PCIe 5.0 x16 FHHL slots;
- Up to 12 front hot-swap 2.5" NVMe + 3 front hot-swap 2.5" SATA drive bays;
- 6 Redundant 3000W Titanium Level power supplies;



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 E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors Up to 64C/128T; Up to 320MB 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: 32 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 8TB 4400MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 12 bays <ul style="list-style-type: none"> • 10 front hot-swap 2.5" PCIe 5.0 x4 NVMe* drive bays • 2 front hot-swap 2.5" PCIe 4.0 x4 NVMe* drive bays (*NVMe support may require additional storage controller and/or cables) M.2: 2 M.2 NVMe slots (M-key)
Expansion Slots	PCI-Express (PCIe) Configuration: Default <ul style="list-style-type: none"> • 8 PCIe 5.0 x16 LP slots • 2 PCIe 5.0 x16 FHHL slots M.2: 2 M.2 PCIe 4.0 x4 NVMe slots (M-key 2280(default)); USB 3.0; VROC required for RAID)
On-Board Devices	Chipset: Intel® C741 Network Connectivity: 2 RJ45 10GbE with Intel® X550-AT2 (optional) 2 SFP28 25GbE with Broadcom® BCM57414 (optional) 2 RJ45 10GbE with Intel® X710-AT2 (optional)
Input / Output	1 VGA port

System Cooling	Fans: 10 heavy duty fans with optimal fan speed control
Power Supply	6x 3000W Redundant Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); 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 8+4 Phase-switching voltage regulator 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: 183 lbs (83.1 kg) Net Weight: 122.7 lbs (55.64 kg) Available Color: Silver
Operating Environment	Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
Motherboard	<u>Super X13DEG-OAD</u>
Chassis	CSE-GP1001TS-R000NPF