GPU SuperServer SYS-A21GE-NBRT

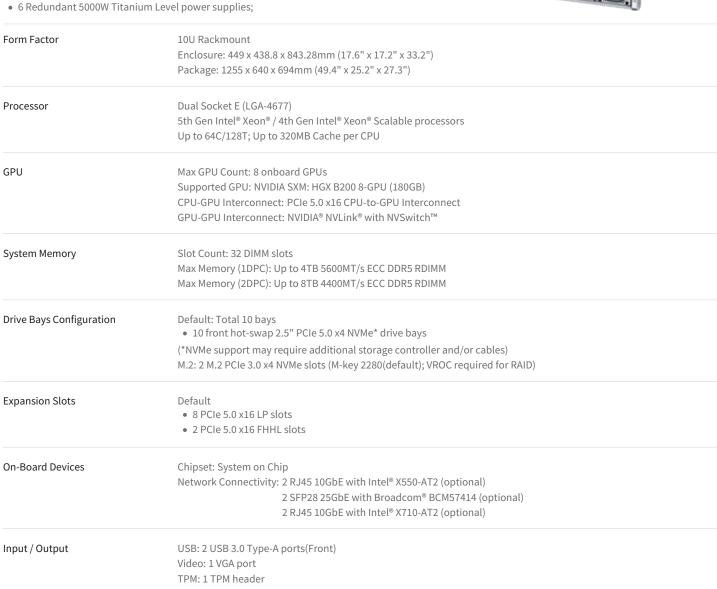DP Intel 10U System with NVIDIA HGX B200 8-GPU and Rear I/O

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;
- Up to 8 PCIe 5.0 x16 LP + 2 PCIe 5.0 x16 FHHL slots;
- 10 front hot-swap 2.5" NVMe + 2 front hot-swap M.2;
- 2 RJ45 10GbE;
- 6 Redundant 5000W 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 10 bays • 10 front hot-swap 2.5" PCIe 5.0 x4 NVMe* drive bays (*NVMe support may require additional storage controller and/or cables) M.2: 2 M.2 PCIe 3.0 x4 NVMe slots (M-key 2280(default); VROC required for RAID)

Expansion Slots	Default
	  • 8 PCIe 5.0 x16 LP slots
	  • 2 PCIe 5.0 x16 FHHL slots

On-Board Devices	Chipset: System on Chip
	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	USB: 2 USB 3.0 Type-A ports(Front) Video: 1 VGA port TPM: 1 TPM header

System Cooling	Fans: 19 heavy duty fans with optimal fan speed control
Power Supply	6x 5000W Redundant (3 + 3) Hot-plug 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	Super X13DEG-D-P
Chassis	**CSE-GP1001TS-R000NPF**