GPU A+ Server AS -4125GS-TNRT

DP AMD 4U System with up to 8 PCIe Direct-Connect GPUs

More details here

Key Applications

AI / Deep Learning, Big Data Analytics and AI, High Performance Computing, Engineering/scientific research,

Key Features

- Flexible GPU support: active & passive GPUs
  Direct Attached Configuration for up to 8 double width, full length GPUs
  8 Hot-Swap Heavy Duty Fans with Optimal Fan Speed Control;
- Dual-Socket, AMD EPYC™ 9004/9005 Series Processors up to 400W TDP;
- Supports up to 24 DIMM Slots, 6000 MT/s 6TB DDR5 memory
  (Please check System Memory Section for detail);
- Dual front hot-swap 2.5" SATA + 4 front hot-swap 2.5" NVMe drive bays
  One onboard M.2 Slot
  (The PCIe signal for 4 NVMe drives can be re-directed for PCIe slot8 enablement);
- Total of 4x 2000W Redundant (2+2 or 3+1) Titanium Level power supplies
  (2+2 under 4000 Watt, 3+1 under 6000 Watt)
  (Power supply full redundancy based on configuration and application load);

Form Factor	4U Rackmount Enclosure: 437 x 178 x 737mm (17.2" x 7" x 29") Package: 685 x 675 x 1041mm (27" x 26.57" x 41")
Processor	Dual processor(s) AMD EPYC™ 9004/9005 Series Processors (* AMD EPYC™ 9005 Series drop-in support requires board revision 2.x) Up to 160C/320T; Up to 512MB Cache per CPU
GPU	Max GPU Count: Up to 8 double-width GPUs Supported GPU: NVIDIA PCIe: H100, H100 NVL, A100, A16, A30, A40, L4, L40, L40S, NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation Edition, RTX 4000 Ada Generation, RTX 4000 SFF Ada Generation, RTX 4500 Ada, RTX 5000 Ada, RTX 6000 Ada Generation, RTX A4000, RTX A5000, RTX A5500, RTX A6000 AMD PCIe: Instinct™ MI100, Instinct™ MI210 CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: NVIDIA® NVLink™ Bridge (optional), AMD Infinity Fabric™ Link (optional)
System Memory	Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor) Max Memory (1DPC): Up to 6TB 6000MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor)

Drive Bays Configuration	Default: Total 6 bays
	  • 2 front hot-swap 2.5" SATA drive bays
	  • 4 front hot-swap 2.5" NVMe drive bays
	Option A: Total 2 bays
	  • 2 front hot-swap 2.5" SATA drive bays
	M.2: 1 M.2 PCIe 3.0 x4 NVMe slot (M-key)

Expansion Slots	Default
	  • 9 PCIe 5.0 x16 FHFL slots
	Option A
	  • 10 PCIe 5.0 x16 FHFL slots

On-Board Devices	SATA: SATA (6Gbps) Chipset: AMD SP5 Network Connectivity: 2 RJ45 10GbE
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 10 GBASE-T LAN ports

USB: 2 ports(rear)
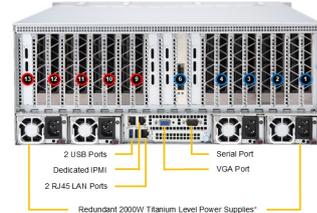Video: 1 VGA port
Serial: 1 COM port(rear)

USB: 2 ports(rear)
Video: 1 VGA port
Serial: 1 COM port(rear)

(Front View – System)

(Rear View – System)

Front Panel

Drive Bay	Description
0 – 3	4 Hot-swap 2.5" NVMe Drive Bays
20 – 21	2 Hot-swap 2.5" SATA Drive Bays*
4 – 19 22 23	Hot-swap 2.5" SATA Drive Bays* (optional)

*Requires optional RAID controller

2 USB Ports
Dedicated IPMI
2 RJ45 LAN Ports
Serial Port
VGA Port

Redundant 2000W Titanium Level Power Supplies*

	Slot Description
1 – 4 5	PCIe 5.0 x16 (FHFL)
9 – 12	PCIe 5.0 x16 (FHFL)
13	PCIe 5.0 x8 (FHFL) - optional based on NVMe configuration

*Full redundancy based on configuration and application load.

CPU1 ■ CPU2 ■

System Cooling	Fans: Up to 8 heavy duty fans with optimal fan speed control
Power Supply	4x 2000W Redundant (3 + 1) 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: 7 +1 Phase-switching voltage regulator
	    Monitors for CPU Cores, Chipset Voltages, Memory
	FAN: Fans with tachometer monitoring
	    Pulse Width Modulated (PWM) fan connectors
	    Status monitor for speed control
	Temperature: Monitoring for CPU and chassis environment
	        Thermal Control for fan connectors

Dimensions and Weight	Weight: Gross Weight: 100 lbs (45.3 kg) Net Weight: 65.5 lbs (29.7 kg) Available Color: Black Front & Silver Body
Operating Environment	Operating Temperature: 10°C to 35°C (50°F to 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 H13DSG-O-CPU**
Chassis	**CSE-418G2TS**