

GPU A+ Server AS -4125GS-TNRT

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



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):



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, A16, A30, A40, L4, L40S, RTX 6000 Ada Generation, A100, RTX A5000, RTX A6000, RTX A5500, L40, RTX 4000 Ada Generation, RTX 4000 SFF Ada Generation, RTX 4500 Ada, RTX 5000 Ada, NVIDIA RTX

PRO™ 6000 Blackwell Max-Q Workstation Edition, RTX A4000

AMD PCIe: Instinct™ MI210, Instinct™ MI100

CPU-GPU Interconnect: PCle 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 bays4 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

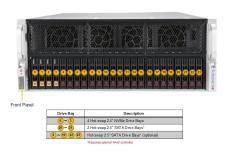
• 10 PCIe 5.0 x16 FHFL slots

On-Board Devices SATA: SATA (6Gbps)

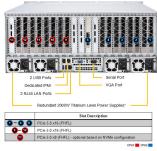
Chipset: AMD SP5

Network Connectivity: 2 RJ45 10GbE

USB: 2 ports(rear) Video: 1 VGA port Serial: 1 COM port(rear) (Front View - System)



(Rear View - System)



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: Monitors for CPU Cores, Chipset Voltages, Memory 7+1 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: 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		