GPU SuperServer ARS-222GL-FNR2

2U air-cooled system with dual NVIDIA Vera CPUs

More details here

Key Applications

AI/Deep Learning Training, Large Language Model (LLM) Natural Language Processing, High Performance Computing (HPC),

Key Features

- Dual NVIDIA Vera C2 CPU with 88-cores, 450W TDP, air-cooled, featuring a unique spatial multithreading design.;
- Supports up to 2 double-width PCIe GPU accelerator cards. Support for the NVIDIA RTX PRO™ 6000 Blackwell Server Edition or NVIDIA RTX PRO™ 4500 Blackwell Server Edition GPUs;
- 16 SOCAMM2 modules supporting up to 3TB ECC LPDDR5X memory;
- Up to 7 PCIe 6.0 x16 slots: 4 double-width FHFL + 3 FHFL;
- Up to 8 front hot-swap E1.S NVMe drive bays;
- Up to 4 Redundant 3200W (2+2) Titanium Level power supplies;
- 2U Rackmount chassis with 35.43" (900mm) depth;



Form Factor	2U Rackmount Enclosure: 438 x 87 x 900mm (17.25" x 3.43" x 35.43") Package: 700 x 280 x 1200mm (27.56" x 11.02" x 47.24")
Processor	Dual processor(s) NVIDIA Vera CPU with Dual 88-core processors
GPU	Max GPU Count: Up to 2 double-width GPUs Supported GPU: NVIDIA PCIe: NVIDIA RTX PRO™ 4500 Blackwell Server Edition, NVIDIA RTX PRO™ 6000 Blackwell Server Edition CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: NVIDIA® NVLink™ Bridge (optional)
System Memory	Slot Count: 16 DIMM slots/1 Channels Max Memory (1DPC): Up to 3TB 9600MT/s ECC SOCAMM2 LPDDR5X
Drive Bays Configuration	Default: Total 8 bays • 8 front hot-swap E1.S NVMe drive bays
Expansion Slots	PCI-Express (PCIe) Configuration: Default • 7 PCIe 6.0 x16 (in x16) FHFL slots CXL Support: Up to 1 CXL 2.0 x16 devices
On-Board Devices	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 1 port (Rear)

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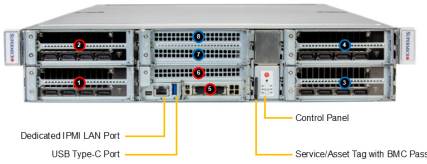
(Front View – System)



Slot	Description
1 – 4	PCIe 6.0 x16 FHFL Double-width GPU
5 – 8	PCIe 6.0 x16 FHFL Networking/DPU

CPU1 CPU2

(Rear View – System)



Drive Bay	Description
0 – 3	4 Hot-swap E1.S NVMe Drive Bays
4 – 7	4 Hot-swap E1.S NVMe Drive Bays

System Cooling	Fans: 6x 6cm heavy duty fans with optimal fan speed control
Power Supply	4x 3200W Redundant (2 + 2) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 128MB SPI Flash EEPROM
Management	Redfish API; Supermicro Server Manager (SSM); Supermicro Power Manager (SPM); Supermicro SuperDoctor® 5 (SD5); KVM with dedicated LAN ; IPMI 2.0; OOB Management Package (SFT-OOB-LIC); SMCIPMITool; IPMIView
PC Health Monitoring	CPU: 8+4 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: 103 lbs (46.8 kg) Net Weight: 88 lbs (40 kg) Available Color: Silver
Operating Environment	Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -30°C to 60°C (-22°F to 140°F) Operating Relative Humidity: 8% to 80% (max 21° DP; non-condensing) Non-operating Relative Humidity: 8% to 90% (max 38° DP; non-condensing)
Motherboard	**Super G3DBV**
Chassis	**CSE-MG206TS-R000NDFP**

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