

GPU SuperServer ARS-222GL-NR

2U air-cooled system with dual NVIDIA Vera CPUs



Key Applications

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

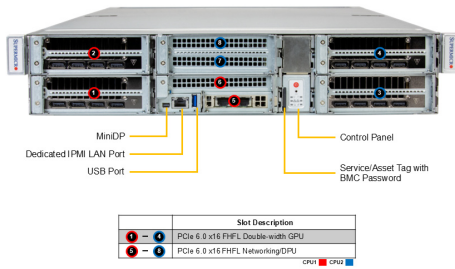
Key Features

- NVIDIA Vera C2 CPU featuring 176 cores, 352 threads with spatial multithreading;
- Support for up to 4 double-width GPU accelerator cards. Support for up to 4 NVIDIA RTX PRO™ 6000 Blackwell Server Edition or up to 6 NVIDIA RTX PRO™ 4500 Blackwell Server Edition GPUs;
- Supports up to 1.5TB SOCAMM2 LPDDR5X per CPU;
- Up to 3 PCIe 6.0;
- Up to 8 hot-swap E1.S drive bays +2 M.2 NVMe;
- 4 Redundant 3000W (3+1) Titanium Power Supply;
- 2U Rackmount chassis with 35.43" (900mm) depth;



Form Factor	2U Rackmount Enclosure: 438.4 x 87 x 900mm (17.3" 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 C2 (88-core)
GPU	Max GPU Count: Up to 4 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	Onboard Memory Up to 1.5TB ECC LPDDR5X
Drive Bays Configuration	Default: Total 8 bays • 8 front hot-swap E1.S NVMe drive bays M.2: 2 M.2 NVMe/SATA slots (M-key)
Expansion Slots	PCI-Express (PCIe) Configuration: Default • 3 PCIe 6.0 x16 FHFL double-width 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) Video: 1 mini-DP port

(Front View – System)



System Cooling	Fans: Up to 5x 8cm heavy duty fans with optimal fan speed control
Power Supply	4x 3000W Redundant (3 + 1) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB 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-MG204-R000NDFP