

# GPU SuperServer ARS-221GL-SR

Dual NVIDIA Grace™ Superchip system with up to 4 NVIDIA GPUs and NVIDIA BlueField®-3 storage mode

## Key Applications

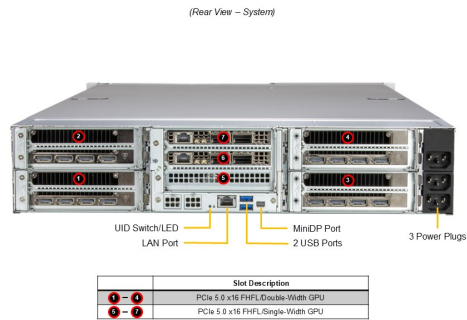
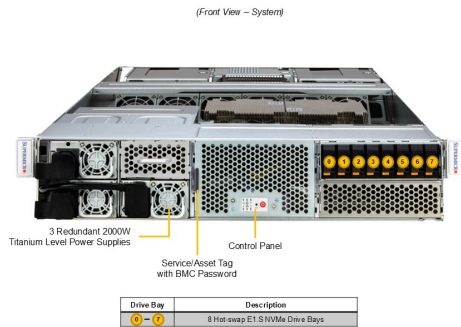
High Performance Computing, AI/Deep Learning Training, Large Language Model (LLM) Natural Language Processing, General purpose CPU workloads, including analytics, data science, simulation, HPC, application servers, and more,

## Key Features

- NVIDIA Grace™ CPU Superchip up to total 144 cores;
- Up to 4 double-width PCIe GPU accelerator cards;
- Up to 960GB ECC LPDDR5X onboard memory option for minimum latency and maximum power efficiency;
- Up to 3 PCIe 5.0 x16 FHFL + 4 PCIe 5.0 x16 FHFL double-width slots;
- Up to 8 front hot-swap E1.S NVMe drive bays from up to 2 NVIDIA® BlueField®-3;
- 3 Redundant 2000W Titanium Level power supplies;



|                          |                                                                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor              | 2U Rackmount<br>Enclosure: 438.4 x 88 x 900mm (17.25" x 3.46" x 35.43")<br>Package: (22.5" x 11" x 45.5")                                                       |
| Processor                | Dual processor(s)<br>NVIDIA Dual 72-core CPUs on a Grace™ CPU Superchip                                                                                         |
| GPU                      | Max GPU Count: Up to 4 double-width GPUs<br>CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect<br>GPU-GPU Interconnect: PCIe                            |
| System Memory            | Onboard Memory<br>Up to 960GB ECC LPDDR5X                                                                                                                       |
| Drive Bays Configuration | Default: Total 8 bays <ul style="list-style-type: none"> <li>• 8 front hot-swap E1.S NVMe drive bays</li> </ul> M.2: 2 M.2 PCIe 5.0 x4 NVMe slots (M-key 22110) |
| Expansion Slots          | Default <ul style="list-style-type: none"> <li>• 3 PCIe 5.0 x16 FHFL slots</li> <li>• 4 PCIe 5.0 x16 FHFL double-width slots</li> </ul>                         |
| On-Board Devices         | Chipset: NVIDIA C2<br>IPMI: Support for Intelligent Platform Management Interface v.2.0<br>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support        |
| Input / Output           | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>USB: 2 USB 3.0 Type-A ports(Rear)<br>Video: 1 mini-DP port<br>TPM: 1 TPM Onboard/port 80                            |



|                       |                                                                                                                                                                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Cooling        | Fans: Up to 6 heavy duty fans with optimal fan speed control                                                                                                                                                                                                                     |
| Power Supply          | 3x 2000W Redundant Titanium Level (96%) power supplies                                                                                                                                                                                                                           |
| System BIOS           | BIOS Type: AMI 64MB SPI Flash EEPROM                                                                                                                                                                                                                                             |
| Management            | Redfish API; Supermicro Update Manager (SUM); KVM with dedicated LAN ; IPMI 2.0; Watch Dog; OOB Management Package (SFT-OOB-LIC )                                                                                                                                                |
| PC Health Monitoring  | CPU: Monitors for CPU Cores, Chipset Voltages, Memory<br>FAN: Fans with tachometer monitoring<br>Pulse Width Modulated (PWM) fan connectors<br>Status monitor for speed control<br>Temperature: Monitoring for CPU and chassis environment<br>Thermal Control for fan connectors |
| Dimensions and Weight | Weight: Gross Weight: 86.5 lbs (39.2 kg)<br>Net Weight: 67.5 lbs (30.6 kg)<br>Available Color: Black front & silver body                                                                                                                                                         |
| Operating Environment | Operating Temperature: 10°C to 35°C (50°F to 95°F)<br>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)<br>Operating Relative Humidity: 8% to 90% (non-condensing)<br>Non-operating Relative Humidity: 5% to 95% (non-condensing)                                        |
| Motherboard           | <a href="#">Super G1SMH</a>                                                                                                                                                                                                                                                      |
| Chassis               | CSE-GP201TS-R000NP                                                                                                                                                                                                                                                               |