

# GPU SuperServer ARS-511GD-NB-LCC-01-G2

Super AI Station with NVIDIA GB300 Grace Blackwell Ultra Desktop Superchip



## Key Applications

AI Agent Development and Deployment

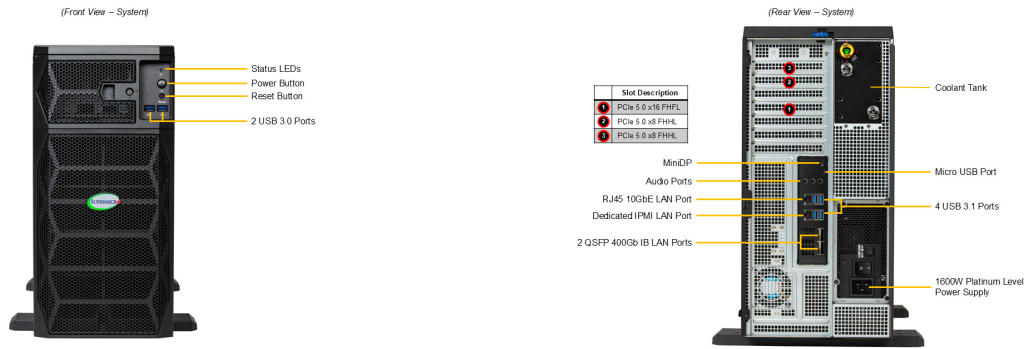
## Gold Configuration Details

- CPU: 1 NVIDIA Grace 72-core ARM Neoverse V2 CPU
- GPU: 1 NVIDIA Blackwell Ultra (B300) GPU
- Memory: 748 GB of Coherent Memory
- M.2: 2x 1.92TB M.2 NVMe SSD
- M.2: 2x 960GB M.2 NVMe SSD
- NIC: NVIDIA ConnectX®-8 SuperNIC™



## Base System Specs

|                          |   |
|--------------------------|---|
| Form Factor              | Tower or 5U<br>Enclosure: 454.7 x 218.4 x 701mm (17.9" x 8.6" x 27.6")<br>Package: 388 x 655 x 956mm (15.3" x 25.8" x 37.6")  |
| Processor                | Single processor(s)<br>NVIDIA 72-core NVIDIA Grace CPU on NVIDIA GB300 Grace Blackwell Ultra Superchip<br>72C/72T   |
| GPU                      | Max GPU Count: 1 onboard GPU<br>Supported GPU: NVIDIA: B300 GPU on NVIDIA GB300 Grace Blackwell Ultra Superchip<br>CPU-GPU Interconnect: NVIDIA NVLink®-C2C   |
| System Memory            | Onboard Memory<br>496GB ECC LPDDR5X<br>Additional GPU Memory: 252GB ECC HBM3e   |
| Drive Bays Configuration | 4 M.2 PCIe 5.0 x4 NVMe slots (M-key 2280(default))  |
| Expansion Slots          | 1 M.2 PCIe 5.0 x4 slot (E-key 2230(default))  |
| On-Board Devices         | 2 QSFP 400GbE with NVIDIA ConnectX®-8 SuperNIC  |
| Input / Output           | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>1 RJ45 10 GbE LAN port<br>2 QSFP28 400 GbE LAN ports (NVIDIA ConnectX®-8 SuperNIC)<br>USB: 2 USB 3.0 Type-A ports(Front)<br>4 USB 3.0 Gen2 Type-A ports(Rear)<br>Video: 1 mini-DP port<br>Audio: Rear Audio |



**System Cooling** Fans: 2x 120mm Fan(s)  
 1x 80mm Fan(s)  
 1x 60mm Fan(s)  
 1x 40mm Fan(s)  
 Liquid Cooling: Direct to Chip (D2C) Cold Plate

**Power Supply** 1x 1600W Titanium Level (94%) power supply

**System BIOS** BIOS Type: AMI 64MB SPI Flash EEPROM

**PC Health Monitoring** CPU: Monitors for CPU Cores, Chipset Voltages, Memory  
 Fan: Fans with tachometer monitoring  
 Temperature: Monitoring for CPU and chassis environment  
 Thermal Control for fan connectors

**Dimensions and Weight** Weight: Gross Weight: 112.4 lbs (51 kg)  
 Net Weight: 88 lbs (40 kg)  
 Available Color: Black Front & Black Body

**Operating Environment** Operating Temperature: 10°C to 25°C (50°F to 77°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 GPU-NVGB300-WSHPM](#)

**Chassis** CSE-759TS-R0CNBP