

GPU SuperServer ARS-121GL-NB2B-LCC

1U NVIDIA GB200 NVL4 system with quad 800G NVIDIA ConnectX®-8 or custom NICs, and up to 8 E1.S drives



Key Applications

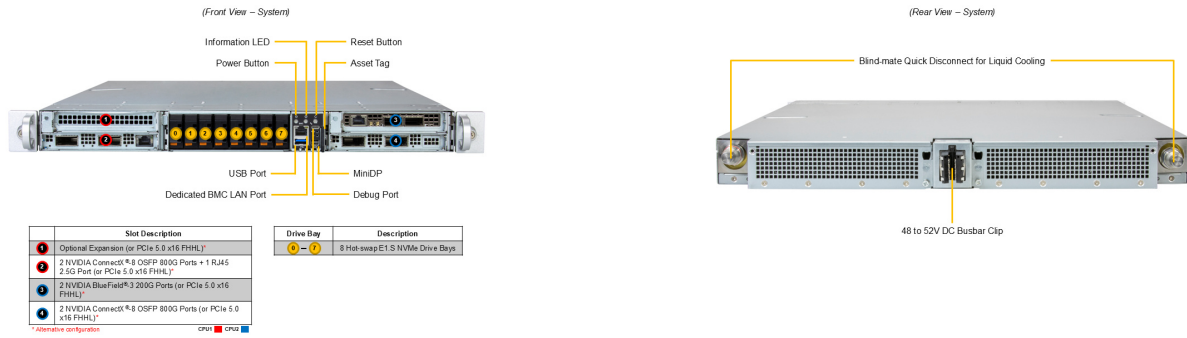
High Performance Computing, AI/Deep Learning Training, Large Language Model (LLM) and Generative AI,

Key Features

- NVIDIA GB200 with 4 NVIDIA NVLink® (GB200 NVL4);
- Dual Nvidia 72-core Grace CPUs with liquid cooling;
- Quad NVIDIA B200 GPUs with liquid cooling;
- 960GB Onboard Memory;
- Quad 800G ConnectX®-8 + 2 PCIe 5.0 x16 slots OR 4 PCIe 5.0 x16 slots;
- 4 to 8 front hot-swap E1.S NVMe drive bays;
- 48-52V DC Busbar;



Form Factor	1U Rackmount Enclosure: 438.4 x 43.6 x 766mm (17.26" x 1.7" x 30.15") Package: 630 x 230 x 1150mm (24.8" x 9.05" x 45.27")
Processor	Dual processor(s) NVIDIA Dual 72-core CPUs on a Grace™ CPU Superchip
GPU	Max GPU Count: 4 onboard GPUs Supported GPU: NVIDIA: B200 GPU on GB200 Grace Blackwell Superchip CPU-GPU Interconnect: NVIDIA NVLink®-C2C GPU-GPU Interconnect: Fifth-Generation NVIDIA NVLink™
System Memory	Slot Count: Onboard Memory Max Memory: Up to 960GB ECC LPDDR5X
Drive Bays Configuration	Default: Total 8 bays • 8 front hot-swap E1.S PCIe 5.0 x4 NVMe drive bays Option A: Total 4 bays • 4 front hot-swap E1.S PCIe 5.0 x4 NVMe drive bays M.2: 1 M.2 PCIe 5.0 x4 NVMe slot (M-key 22110(default))
Expansion Slots	Default • 2 PCIe 5.0 x16 (in x16) FHFL slots Option A • 4 PCIe 5.0 x16 (in x16) FHFL slots
On-Board Devices	Chipset: System on Chip Network Connectivity: 1 RJ45 2.5GbE with Intel® I210-AT (optional) 4 OSFP 800Gb InfiniBand with NVIDIA ConnectX®-8 SuperNIC (optional) 2 QSFP-DD 200Gb InfiniBand with NVIDIA® BlueField®-3 (optional)
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port (ASPEED AST2600) USB: 1 Type-A port(Front) Video: 1 Mini-DP port(Front) TPM: 1 TPM Onboard TPM & TPM Header



System Cooling Fans: 8x 4cm heavy duty fans with optimal fan speed control
Liquid Cooling: Direct to Chip (D2C) Cold Plate

Power Supply 0: Power via Busbar (48-54V DC)

System BIOS BIOS Type: AMI 64MB SPI Flash EEPROM

Management SuperCloud Composer®; SuperServer Automation Assistant (SAA) New!

PC Health Monitoring
CPU: 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: 79.36 lbs (36 kg)
Net Weight: 70.5 lbs (32 kg)
Available Color: Silver

Operating Environment
RoHS Compliant
Name: A2
Operating Temperature: 10°C to 35°C (50°F to 95°F)
Non-operating Temperature: -30°C to 60°C (-40°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 GPU-NVGB200-NVL4

Chassis CSE-MG104TS-V01DP-NVL4