

# 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

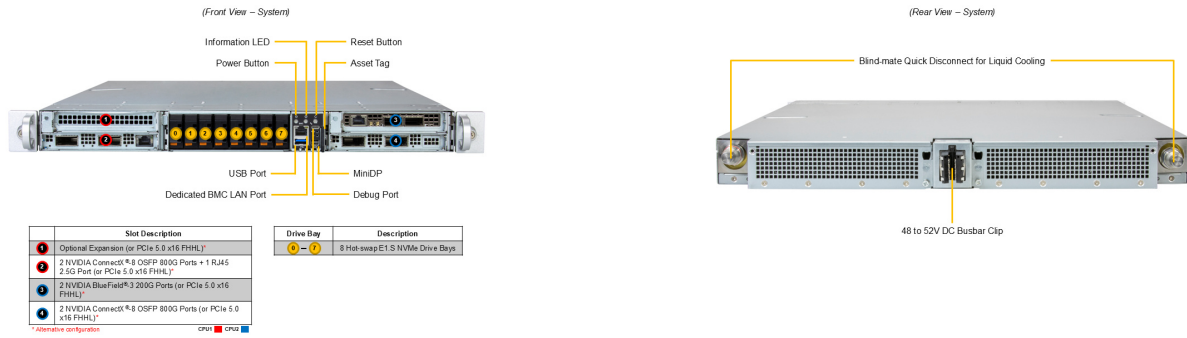
High Performance Computing, AI/Deep Learning Training, Large Language Model (LLM) and Generative AI,

## 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;



<b>Form Factor</b>	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")
<b>Processor</b>	Dual processor(s) NVIDIA Dual 72-core CPUs on a Grace™ CPU Superchip
<b>GPU</b>	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™
<b>System Memory</b>	Onboard Memory Up to 960GB ECC LPDDR5X
<b>Drive Bays Configuration</b>	Default: Total 8 bays <ul style="list-style-type: none"> <li>• 8 front hot-swap E1.S PCIe 5.0 x4 NVMe drive bays</li> </ul> Option A: Total 4 bays <ul style="list-style-type: none"> <li>• 4 front hot-swap E1.S PCIe 5.0 x4 NVMe drive bays</li> </ul> M.2: 1 M.2 PCIe 5.0 x4 NVMe slot (M-key 22110(default))
<b>Expansion Slots</b>	Default <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x16 (in x16) FHFL slots</li> </ul> Option A <ul style="list-style-type: none"> <li>• 4 PCIe 5.0 x16 (in x16) FHFL slots</li> </ul>
<b>On-Board Devices</b>	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)
<b>Input / Output</b>	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



Slot	Slot Description
1	Optional Expansion (or PCIe 5.0 x16 FHHL)*
2	2 NVIDIA Connect* 8 OSFP 800G Ports + 1 RJ45 2.5G Port (or PCIe 5.0 x16 FHHL)*
3	2 NVIDIA BlueField* 3 200G Ports (or PCIe 5.0 x16 FHHL)*
4	2 NVIDIA Connect* 8 OSFP 800G Ports (or PCIe 5.0 x16 FHHL)*

Drive Bay	Description
0-7	8 Hot-swap E1S NVMe Drive Bays

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	<b>CSE-MG104TS-V01DP-NVL4</b>