

## **GPU SuperServer ARS-111GL-DSHR-LCC**

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1U 2-Node NVIDIA GH200 Grace Hopper Superchip system with liquid-cooling supporting NVIDIA BlueField-3 or NVIDIA ConnectX-7

## **Key Applications**

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

## **Key Features**

- Two nodes in a 1U form factor. Each node supports the following:;
- Two nodes in a 1U Form Factor. This system currently supports up to eight E1.S drives with NVIDIA's BlueField®-3 in Storage Configuration Mode. Please consult with your Supermicro Salesperson for details;
- High density 1U 2-node GPU system with Integrated NVIDIA® H100 GPU;
- NVIDIA Grace Hopper™ Superchip (Grace CPU and H100 GPU), up to 72 cores per node (Liquid-Cooled);
- NVLink® Chip-2-Chip (C2C) high-bandwidth, low-latency interconnect between CPU and GPU at 900GB/s;
- Up to 576GB of coherent memory per node including 480GB LPDDR5X (CPU) and 96GB of HBM3 (GPU) for LLM applications;
- 2 PCIe 5.0 x16 slots per node (1 PCIe FHFL slot dedicated to BlueField-3 and 1 PCIe LP);
- Supports up to eight hot-swap E1.S drives bays (four per node).;
- 7 Hot-Swap Heavy Duty Fans with Optimal Fan Speed Control;

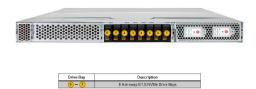


Form Factor	1U Rackmount
	Enclosure: 438.4 x 43.6 x 900mm (17.26" x 1.7" x 35.4")
	Package: 695 x 230 x 1170mm (27.36" x 9.05" x 46.06")
Processor	NVIDIA 72-core NVIDIA Grace CPU on GH200 Grace Hopper™ Superchip
GPU	Max GPU Count: Up to 1 onboard GPU
	Supported GPU: NVIDIA: H100 Tensor Core GPU on GH200 Grace Hopper™ Superchip
	GPU-GPU Interconnect: PCIe
System Memory	Slot Count: Onboard Memory
	Max Memory: Up to 480GB ECC LPDDR5X
	Additional GPU Memory: Up to 96GB ECC HBM3
Drive Bays Configuration	Default: Total 4 bays
	• 4 front hot-swap E1.S NVMe drive bays
	M.2: 2 M.2 NVMe slots (M-key)
Expansion Slots	Default
	• 1 PCIe 5.0 x16 FHFL slot
	• 1 PCIe 5.0 x16 LP slot
On-Board Devices	System on Chip
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port
	USB: 1 port(Rear)



(Front View - System)







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Fans: Up to 7 Removable heavy-duty 4cm Fan(s) Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)
2x 2700W Redundant Titanium Level (96%) power supplies
BIOS Type: AMI 64MB SPI Flash EEPROM
CPU: Monitors for CPU Cores, Chipset Voltages, Memory
FAN: Fans with tachometer monitoring
Status monitor for speed control
Pulse Width Modulated (PWM) fan connectors
Temperature: Monitoring for CPU and chassis environment  Thermal Control for fan connectors
I nermal Control for fan connectors
Weight: Gross Weight: 49.21 lbs (22.32 kg)
Net Weight: 33.64 lbs (15.26 kg)
Available Color: Silver
Operating Temperature: 10°C to 35°C (50°F to 95°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)
Super G1SMH-G
CSE-MG102TS-R000NDFP-2N