

GPU SuperServer ARS-111GL-DSHR-LCC

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 **hot-pluggable** systems (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);



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
 GPU-GPU Interconnect: PCIe

System Memory Onboard 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

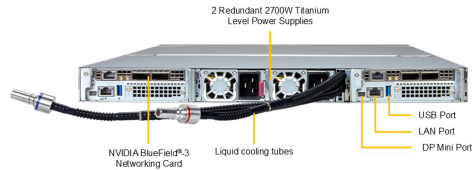
Input / Output LAN: 1 RJ45 1 GbE Dedicated BMC LAN port
 USB: 1 port(Rear)
 Video: 1 mini-DP port

(Front View – System)



Drive Bay	Description
0 - 7	8 Hot-swap E1.SNVMe Drive Bays

(Rear View – System)



System Cooling	Fans: Up to 7 Removable heavy-duty 4cm Fan(s) Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)
Power Supply	2x 2700W Redundant Titanium Level (96%) power supplies
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 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: 49.21 lbs (22.32 kg) Net Weight: 33.64 lbs (15.26 kg) Available Color: Silver
Operating Environment	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)
Motherboard	<u>Super G1SMH-G</u>
Chassis	CSE-MG102TS-R000NDFP-2N