GPU SuperServer ARS-111GL-DNHR-LCC

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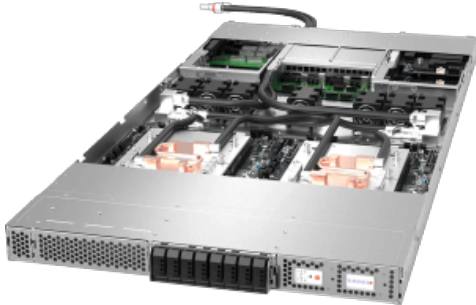
More details here

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:;
- High density 1U 2-node GPU system with Integrated NVIDIA® H100 GPU (1 per Node);
- NVIDIA Grace Hopper™ Superchip (Grace CPU and H100 GPU);
- 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 and 96GB of HBM3 for LLM applications;
- 2x PCIe 5.0 x16 slots per node supporting NVIDIA BlueField®-3 or ConnectX®-7;
- 7 Hot-Swap Heavy Duty Fans with Optimal Fan Speed Control;
- This system supports two E1.S drives directly from the processor only.;
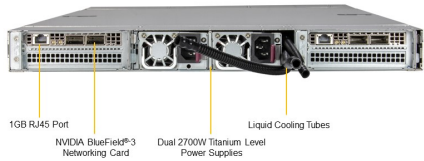
Form Factor	1U Rackmount Enclosure: 440 x 44 x 940mm (17.33" x 1.75" x 37") Package: 711 x 241 x 1219mm (28" x 9.5" x 48")
Processor	NVIDIA 72-core NVIDIA Grace CPU on GH200 Grace Hopper™ Superchip
GPU	Max GPU Count: 1 onboard GPU Supported GPU: NVIDIA: H100 Tensor Core GPU on GH200 Grace Hopper™ Superchip CPU-GPU Interconnect: NVIDIA NVLink™-C2C 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 fixed E1.S NVMe drive bays M.2: 2 M.2 NVMe slots (M-key)
Expansion Slots	Default • 2 PCIe 5.0 x16 FHFL slots
On-Board Devices	System on Chip
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 ports(rear) Video: 1 mini-DP port

(Front View – System)

(Rear View – System)

UID LED

Power Button

Drive Bay	Description
0 - 7	8 E1.S Drive Bays

1GB RJ45 Port

NVIDIA BlueField®-3
Networking Card

Dual 2700W Titanium Level
Power Supplies

Liquid Cooling Tubes

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
	     Status monitor for speed control
	     Pulse Width Modulated (PWM) fan connectors
	Temperature: Monitoring for CPU and chassis environment
	     Thermal Control for fan connectors

Dimensions and Weight	Weight: Gross Weight: 65.5 lbs (29.7 kg) Net Weight: 48.5 lbs (22 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	**Super G1SMH-G**
Chassis	**CSE-GP102TS-R000NDFP**