GPU SuperServer ARS-221GL-NHIR

DP NVIDIA GH200 Grace Hopper Superchip system supporting NVIDIA BlueField-3 or NVIDIA ConnectX-7

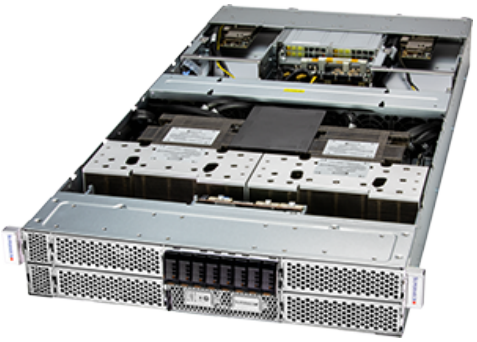
More details here

Key Applications

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

Key Features

- High density 2U 1-node GPU system with two Integrated NVIDIA H100 GPUs and two 72-core Arm Neoverse V2 CPUs
  NVIDIA® NVLink® high speed interconnect between both GH200 Super Chips;
- 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 1248GB of coherent memory (system as a whole), including 960GB LPDDR5X and 288GB of HBM3e for LLM applications;
- 3x PCIe 5.0 X16 supporting one NVIDIA Bluefield 3 and two connectX-7 cards;
- 6 Heavy Duty Fans with Optional Speed Control;



Form Factor	2U Rackmount Enclosure: 438.4 x 87 x 900mm (17.3" x 3.43" x 35.43") Package: 700 x 280 x 1200mm (27.56" x 11.02" x 47.24")
Processor	NVIDIA 72-core NVIDIA Grace CPU on GH200 Grace Hopper™ Superchip 72C/72T; 114MB Cache per CPU
GPU	Max GPU Count: 2 onboard GPUs Supported GPU: NVIDIA: H100 Tensor Core GPU on GH200 Grace Hopper™ Superchip (Air-cooled) CPU-GPU Interconnect: NVIDIA NVLink®-C2C GPU-GPU Interconnect: NVIDIA® NVLink™
System Memory	Onboard Memory 960GB ECC LPDDR5X Additional GPU Memory: 288GB ECC HBM3e
Drive Bays Configuration	Default: Total 3 bays • 3 front fixed E1.S NVMe drive bays M.2: 2 M.2 NVMe slots (M-key)
Expansion Slots	Default • 3 PCIe 5.0 x16 (in x16) FHFL slots • 1 PCIe 5.0 x4 (in x16) FHFL slot
On-Board Devices	GH200
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 1 port (Rear) Video: 1 mini-DP port

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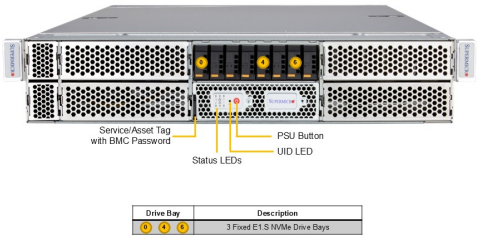
(Front View – System)



Drive Bay	Description
0 4 6	3 Fixed E1.S NVMe Drive Bays

(Rear View – System)

	Slot Description
1 – 4	PCIe 5.0 x16 FHFL

System Cooling	Fans: Up to 6 Removable heavy-duty 6cm Fan(s)
Power Supply	4x 2000W Redundant (2 + 2) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 64MB UEFI
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: 103 lbs (46.8 kg) Net Weight: 88 lbs (40 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 G2DMH-GI**
Chassis	**CSE-MG202TS-R000NDFP**

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