GPU SuperServer ARS-123GL-NRB-ALC

1U NVIDIA Vera Rubin NVL4 system with 4-port 800G ConnectX®-9, 2 E1.S data drives, and 1-port 800G ConnectX®-9 or 2-port 400G BlueField®-4

More details here

Key Applications

GPU Accelerated Compute, AI/Deep Learning Training and Inference, High Performance Computing (HPC),



Key Features

- NVIDIA Vera Rubin with 4 NVIDIA NVLink® (VR NVL4);
- Dual NVIDIA 88-core Vera CPUs with liquid cooling;
- Quad NVIDIA Rubin GPUs with liquid cooling;
- 1536GB onboard memory;
- Quad OSFP 800Gbps Infiniband/Ethernet + Dual QSFP112 400Gbps Infiniband/Ethernet;
- 2 front hot-swap E1.S NVMe drive bays;
- 48-52V DC Busbar;

Form Factor	1U Rackmount Enclosure: 438 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")
Processor	Dual processor(s) NVIDIA Vera CPU with Dual 88-core processors 88C/176T; 164MB Cache per CPU
GPU	Max GPU Count: 4 onboard GPUs Supported GPU: NVIDIA: Rubin GPU on Vera Rubin Superchip GPU-GPU Interconnect: Sixth-Generation NVIDIA NVLink™
System Memory	Onboard Memory 1536GB ECC LPDDR5X
Drive Bays Configuration	Default: Total 3 bays • 2 front hot-swap E1.S PCIe 6.0 x4 NVMe drive bays • 1 internal fixed E1.S PCIe 6.0 x4 NVMe drive bay M.2: 1 M.2 PCIe 6.0 x4 NVMe slot (M-key 22110(default)/2280)
On-Board Devices	1 RJ45 1GbE with Realtek 4 OSFP 800Gb InfiniBand with NVIDIA ConnectX®-9 2 QSFP112 400Gb InfiniBand with NVIDIA BlueField®-4 (optional) 1 OSFP 800Gb InfiniBand with NVIDIA ConnectX®-9 (optional)
Input / Output	LAN: 1 RJ45 1 GbE BMC Shared LAN port (ASPEED AST2600) USB: 1 USB 3.2 Gen1 Type-C port (Front) Video: 1 DisplayPort over USB Type-C port (Front) TPM: 1 TPM Onboard TPM & TPM Header

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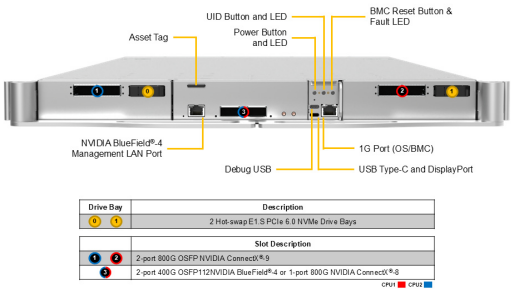
(Front View – System)



Drive Bay	Description
0 1	2 Hot-swap E1.S PCIe 6.0 NVMe Drive Bays

	Slot Description
1 2	2-port 800G OSFP NVIDIA ConnectX®-9
3	2-port 400G OSFP112NVIDIA BlueField®-4 or 1-port 800G NVIDIA ConnectX®-8

CPU1 CPU2

(Rear View – System)



System Cooling	Fans: N/A Liquid Cooling: Direct to Chip (D2C) Cold Plate
Power Supply	Power via Busbar (48-54V DC)
System BIOS	BIOS Type: AMI 64MB SPI Flash EEPROM
Management	SuperCloud Composer® (SCC); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory Temperature: Monitoring for CPU and chassis environment; CPU Thermal Trip Support; I^2C Temperature Sensing Logic
Dimensions and Weight	Weight: Gross Weight: 79.36 lbs (36 kg) Net Weight: 77.16 lbs (35 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-NVVR-NVL4**
Chassis	**CSE-MG108TS-V01DP-NVL4**

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