GPU SuperServer ARS-121L-DNR

1U System with 2 NVIDIA Grace CPU Superchips (2 nodes) with Onboard 144-core Grace CPU per Superchip

Key Applications

High Performance Computing, Hyperscale Cloud Applications, Data Analytics,

Key Features

- High density 1U 2-node GPU system with Integrated NVIDIA® H100 GPU (1 per Node);
- NVIDIA Grace™ CPU Superchip (144-core per node);
- NVLink® Chip-2-Chip (C2C) high-bandwidth, low-latency interconnect between CPU and CPU at 900GB/s;
- Up to 480GB LPDDR5X onboard memory;
- 2x PCIe 5.0 x16 slots per node supporting NVIDIA BlueField®-3 or ConnectX®-7;
- Up to 4x Hot-swap E1.S drives and 2x M.2 NVMe drives per node;
- 7 Hot-Swap Heavy Duty Fans with Optimal Fan Speed Control;

Form Factor	1U Rackmount Enclosure: 440 x 44 x 940mm (17.33" x 1.75" x 37") Package: 1219 x 241 x 711mm (48" x 9.5" x 28")
Processor	Single C2 NVIDIA Grace™ CPU Superchip
GPU	Supported GPU: NVIDIA PCIe: A100, A30, A40, RTX A4000 GPU-GPU Interconnect: PCIe
System Memory	Up to 480GB: Onboard LPDDR5X
Drive Bays	4x E1.S hot-swap NVMe drive slots 2 M.2 NVMe
Expansion Slots	2 PCIe 5.0 x16 FHFL slot(s)
On-Board Devices	Chipset: System on Chip Network Connectivity: 1x 1GbE BaseT with NVIDIA ConnectX®-7 or Bluefield®-3 DPU
Input / Output	LAN: 1 RJ45 1GbE (Dedicated IPMI port)

System Cooling	Fans: 7 Removable heavy-duty 4CM Fan(s)
Power Supply	2x 2700W Redundant Titanium Level power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory 　　　8+4 Phase-switching voltage regulator 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	Height: 1.75" (44 mm) Width: 17.33" (440 mm) Depth: 37" (940 mm) Gross Weight: 65.5 lbs (29.7 kg) Net Weight: 48.5 lbs (22 kg) Packaging: 9.5" (H) x 48" (W) x 28" (D) Available Color: Silver
Operating Environment	Operating Temperature: 10°C ~ 35°C (50°F ~ 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
Chassis	CSE-GP102TS-R000NDFP