GPU SuperServer SYS-222GS-R2BT-ALC

DP Intel 2U GPU System with up to 8 GPUs

More details here

Key Applications

AI/Deep Learning Training, Artificial Intelligence, High Performance Computing (HPC), Deep Learning Inferencing, LLMs & Multi-modal LLMs,

Key Features

- Dual Socket E2 (LGA-4710) Intel® Xeon® 6700-series processors with P-cores up to 350W with liquid cooling;
- 8 NVIDIA Rubin NVL8 GPUs;
- 32 DIMMs supporting up to 8TB;
- 8 OSFP ports via NVIDIA ConnectX-9 SuperNICs™ on HGX Rubin NVL8 board;
- 8 front hot-swap E1.S NVMe + 2 M.2 NVMe;
- DC Busbar;
- 2 10GbE RJ-45, 1 rack level power management (optional); 1 BF4 RJ-45 (optional);
- DC-SCM; 1 mini DP, 1 micro USB, 2 usb 3.0, dedicated IPMI;



Form Factor	2U Rackmount Enclosure: 449.6 x 87 x 792.7mm (17.7" x 3.425" x 31.2") Package: 730 x 325 x 1280mm (28.74" x 12.79" x 50.39")
Processor	Dual Socket E2 (LGA-4710) Intel® Xeon® 6700 series processors with P-cores Up to 86C/172T; Up to 335MB Cache per CPU
GPU	Max GPU Count: 8 onboard GPUs Supported GPU: NVIDIA SXM: NVIDIA HGX™ Rubin NVL8 CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: NVIDIA® NVLink™ with NVSwitch™
System Memory	Slot Count: 32 DIMM slots Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 8TB 6000MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 8 bays • 8 front hot-swap E1.S NVMe drive bays M.2: 2 M.2 NVMe slots (M-key; VROC required for RAID)
Expansion Slots	Default • 1 PCIe 5.0 x16 (in x16) FHHL slot
Input / Output	LAN: 2 RJ45 10 GbE LAN ports (Intel® X710) 1 RJ45 1 GbE Dedicated BMC LAN port (ASPEED AST2600) (via DC-SCM) 8 OSFP 800 Gb/s InfiniBand LAN ports (NVIDIA ConnectX®-9 SuperNIC™) USB: 2 USB 3.0 Type-A ports (Front) (via DC-SCM) Video: 1 Mini-DP port (Front) TPM: 1 TPM header

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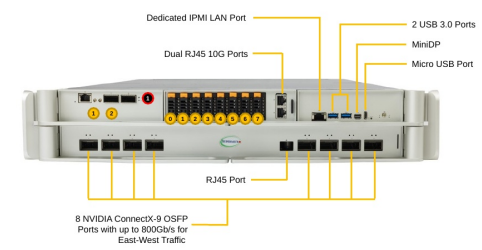
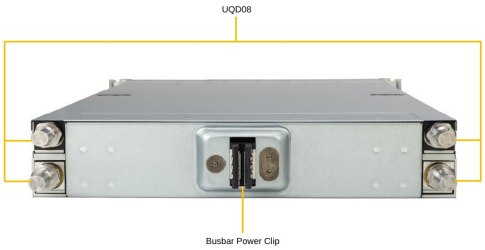
(Front View – System)



Slot Name	Slot Description
1	PCIe 5.0 FHHL from CX9 Switch (N-S) (x8 from each CPU)

Drive Bay	Description
0 -- 7	8 E1.S NVMe Drive Bays
1 -- 2	2 Internal M.2 NVMe Drive Bays (covered)

(Rear View – System)



System Cooling	Fans: N/A Liquid Cooling: Direct to Chip (D2C) Cold Plate
Power Supply	Power via Busbar (48-52V DC)
System BIOS	BIOS Type: AMI 64MB UEFI
Management	SuperCloud Composer® (SCC); Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors
Dimensions and Weight	Weight: Gross Weight: 176 lbs (80 kg) Net Weight: 154 lbs (70 kg) Available Color: silver
Operating Environment	Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -5°C to 60°C (23°F to 140°F) Operating Relative Humidity: 8% to 80% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
Motherboard	**Super X14DBG-R**
Chassis	**CSE-GP203TS-V01DP**

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