GIGABYTE™

H223-V10-AAW1

HPC/AI Arm Server - 2U 2-Node 8-Bay Gen5 NVMe

NVIDIA.

Features

- CPU+GPU design for giant-scale AI and HPC
- 2U 2-node rear access server system
- NVIDIA Grace Hopper Superchip
- 900GB/s NVLink-C2C Interconnect
- Up to 480GB CPU LPDDR5X ECC memory per module
- Up to 96GB GPU HBM3 (or upcoming 144GB GPU HBM3e)
- Compatible with NVIDIA BlueField®-3 DPUs
- 4 x 10Gb/s BASE-T, 2 x MLAN and 1 x CMC ports
- 8 x 2.5" Gen5 NVMe hot-swappable bays
- 4 x M.2 slots with PCIe Gen5 x4 interface
- 4 x FHHL PCIe Gen5 x16 slots
- 2 x OCP 3.0 Gen5 x16 slots
- 2+1 3000W 80 PLUS Titanium redundant power supplies

Specification

Dimensions	2U 2-Node - Rear access (W440 x H87.5 x D850 mm)	**Rear I/O**	4 x USB 3.2 Gen1 2 x Mini-DP 4 x RJ45 2 x MLAN 1 x CMC port
Motherboard	MV13-HD0		
Superchip **(per node)**	NVIDIA Grace Hopper™ Superchip: - 1 x Grace CPU - 1 x Hopper H100 GPU - Connected with NVLink-C2C - TDP up to 1000W (CPU + GPU + memory)	**TPM**	1 x TPM header with SPI interface (Optional TPM2.0 kit: CTM012)
		Power Supply	2+1 3000W 80 PLUS Titanium redundant power supplies AC Input: 100-240V
Memory **(per node)**	Grace CPU: - Up to 480GB of LPDDR5X memory with ECC - Memory bandwidth up to 512GB/s Hopper H100 GPU: - Up to 96GB HBM3 or 144GB HBM3e (coming soon) - Memory bandwidth up to 4TB/s (or 4.9TB/s)	**System Management**	ASPEED AST2600 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
		OS Compatibility	Ubuntu 22.04.3 arm64 Red Hat Enterprise Linux server 9.3 aarch64 SUSE SLE 15 SP5 aarch64
LAN	4 x 10GbE LAN ports (4 x Intel® X550-AT2) - Support NCSI function 2 x Dedicated management ports 1 x CMC port	**System Fans**	4 x 80x80x80mm (16,500rpm)
Video	Integrated in Aspeed AST2600 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp Management chip on CMC board: Integrated in ASPEED AST2520A2-GP	**Operating Properties**	Operating temperature: 10°C to 35°C Operating humidity: 8-80% (non-condensing) Non-operating temperature: -40°C to 60°C Non-operating humidity: 20%-95% (non-condensing)
		Packaging Content	1 x H223-V10-AAW1 4 x Superchip heatsinks 1 x Mini-DP to D-Sub cable 1 x 3-Section Rail kit
Storage	Total 8 x 2.5" Gen5 NVMe hot-swappable bays		
Expansion Slots	2 x FHHL Dual slot PCIe Gen5 x16 slots 2 x FHHL Single slot PCIe Gen5 x16 slots 2 x OCP 3.0 Gen5 x16 slots 4 x M.2 slots: M-key, PCIe Gen5 x4, supports 2280/22110 cards	**Reference Numbers**	Barebone w/ Nvidia module: 6NH223V10MR000AAW1* - Motherboard: 9MV13HD0NR-000 - 3-Section Rail kit: 25HB2-A66125-K0R - Mini-DP to D-Sub cable: 25CRN-200801-K1R - Power supply: 25EP0-23000L-L0S

Learn more about GIGABYTE server at **https://www.gigacomputing.com**

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