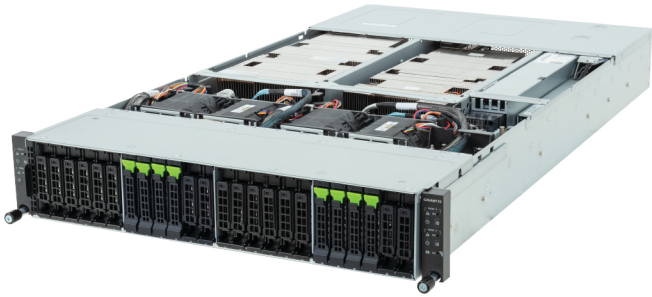


H223-V10-AAW1

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



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	TPM	1 x TPM header with SPI interface (Optional TPM2.0 kit: CTM012)
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)	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)
LAN	4 x 10GbE LAN ports (4 x Intel® X550-AT2) - Support NCSI function 2 x Dedicated management ports 1 x CMC port	OS Compatibility	Ubuntu 22.04.3 arm64 Red Hat Enterprise Linux server 9.3 aarch64 SUSE SLE 15 SP5 aarch64
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	System Fans	4 x 80x80x80mm (16,500rpm)
Storage	Total 8 x 2.5" Gen5 NVMe hot-swappable bays	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)
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	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
		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

Designed by

