GIGABYTE™

XH23-VG0-AAJ1

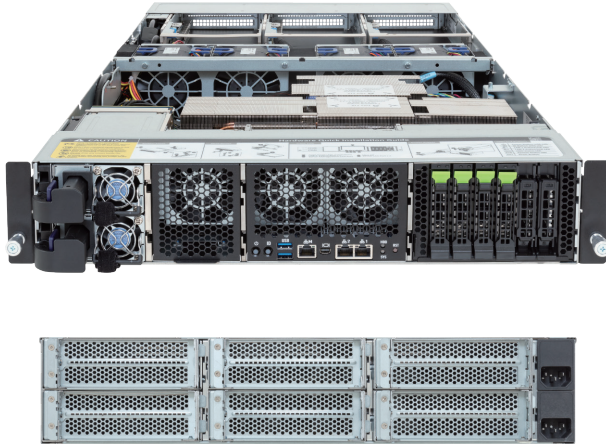## MGX Server - NVIDIA GH200 Grace Hopper Superchip

NVIDIA

Features

- NVIDIA-Certified Systems™ - NVIDIA ARM CPU Systems
- CPU+GPU design for giant-scale AI and HPC
- NVIDIA MGX™ modular server design
- Single NVIDIA GH200 Grace Hopper Superchip
- 900GB/s NVIDIA® NVLink®-C2C Interconnect
- Up to 480GB CPU LPDDR5X ECC memory
- Up to 96GB GPU HBM3
- Compatible with NVIDIA BlueField®-3 DPUs
- 2 x 10Gb/s LAN ports via Intel® X550-AT2
- 4 x 2.5" Gen5 NVMe bays
- 2 x M.2 slots with PCIe Gen5 x4 interface
- 3 x FHFL PCIe Gen5 x16 slots
- Dual 2000W 80 PLUS Titanium redundant power supply

Application

AI, AI Training, AI Inference, HPC, High Converged Server

Specification

Dimensions	2U (W438 x H87 x D900 mm)	**Backplane Board**	Speed and bandwidth: PCIe Gen5 x4
Motherboard	MVG3-MG0	**TPM**	1 x TPM header with SPI interface Optional TPM2.0 kit: CTM012
Superchip	NVIDIA GH200 Grace Hopper Superchip: - 1 x NVIDIA Grace™ CPU - 1 x NVIDIA Hopper™ GPU - Connected with NVIDIA® NVLink®-C2C - TDP up to 1000W (CPU + GPU + memory)	**Power Supply**	Dual 2000W 80 PLUS Titanium redundant power supply AC Input: 100-240V
		System Management	ASPEED® AST2600 Baseboard Management Controller GIGABYTE Management Console web interface
Memory	NVIDIA Grace CPU: - Up to 480GB of LPDDR5X memory with ECC - Memory bandwidth up to 512GB/s NVIDIA Hopper GPU: - Up to 96GB HBM3 - Memory bandwidth up to 4TB/s	**OS Support**	Ubuntu 22.04.3 arm64 Red Hat Enterprise Linux server 9.3 aarch64 SUSE SLE 15 SP5 aarch64
		System Fans	3 x 60x60x56mm 4 x 80x80x80mm
LAN	2 x 10GbE LAN ports (2 x Intel® X550-AT2) - Support NCSI function 1 x 10/100/1000 Mbps Management LAN	**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)
Video	Integrated in ASPEED® AST2600 - 1 x Mini-DP		
Storage	Front side: 4 x 2.5" Gen5 NVMe bays Internal M.2: 2 x M.2 (2242/2260/2280/22110), PCIe Gen5 x4	**Packaging Content**	1 x XH23-VG0-AAJ1 1 x 3-Section Rail kit
Expansion Slots	3 x FHFL PCIe Gen5 x16 slots	**Part Numbers**	Barebone package: 6NXH23VG0MR000AAJ1* Optional parts: - Cable Management Arm: 25HB2-2AA700-K0R
I/O Ports	Front side: 2 x USB 3.2 Gen1, 1 x Mini-DP, 2 x RJ45, 1 x MLAN		

Designed by

GIGA COMPUTING