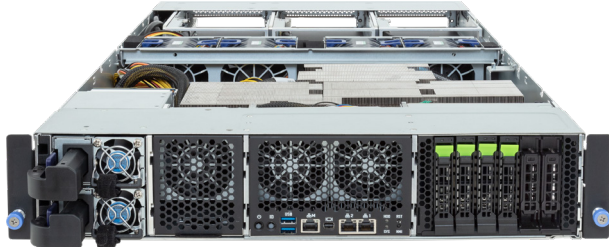# GIGABYTE™

# XH23-VG0-AAJ1

## MGX Server  - NVIDIA GH200 Grace Hopper Superchip

**NVIDIA.**





## Features

- 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 or 144GB HBM3e
- 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) | **I/O Ports** | Front side: 2 x USB 3.2 Gen1, 1 x Mini-DP, 2 x RJ45, 1 x MLAN |
| **Motherboard** | MVG3-MG0 | **Backplane Board** | Speed and bandwidth: PCIe Gen5 x4 |
| **Superchip** | NVIDIA GH200 Grace Hopper Superchip:<br>- 1 x NVIDIA Grace™ CPU<br>- 1 x NVIDIA Hopper™ GPU<br>- Connected with NVIDIA® NVLink®-C2C<br>- TDP up to 1000W (CPU + GPU + memory) | **TPM** | 1 x TPM header with SPI interface<br>Optional TPM2.0 kit: CTM012 |
| | | **Power Supply** | Dual 2000W 80 PLUS Titanium redundant power supply<br>AC Input: 100-240V |
| **Memory** | NVIDIA Grace CPU:<br>- Up to 480GB of LPDDR5X memory with ECC<br>- Memory bandwidth up to 512GB/s<br><br>NVIDIA Hopper GPU:<br>- Up to 96GB HBM3 or 144GB HBM3e<br>- Memory bandwidth up to 4TB/s (or 4.9TB/s) | **System Management** | ASPEED® AST2600 management controller<br>GIGABYTE Management Console (AMI MegaRAC SP-X) |
| | | **System Fans** | 3 x 60x60x56mm<br>4 x 80x80x80mm |
| | | **Operating Properties** | Operating temperature: 10°C to 35°C<br>Operating humidity: 8-80% (non-condensing)<br>Non-operating temperature: -40°C to 60°C<br>Non-operating humidity: 20%-95% (non-condensing) |
| **LAN** | 2 x 10GbE LAN ports (2 x Intel® X550-AT2) - Support NCSI function<br>1 x 10/100/1000 Mbps Management LAN | | |
| **Video** | ASPEED® AST2600 Integrated 2D Graphic Adapter | **Packaging Content** | 1 x XH23-VG0-AAJ1<br>1 x 3-Section Rail kit |
| **Storage** | 4 x 2.5" Gen5 NVMe bays | | |
| **RAID** | N/A | **Reference Numbers** | Barebone package: 6NXH23VG0MR000AAJ1*<br><br>- Motherboard: 9MVG3MG0NR-000<br>- 3-Section Rail kit: 25HB2-T76100-K0R<br>- Power supply: 25EP0-22000P-G1S |
| **Expansion Slots** | 3 x FHFL PCIe Gen5 x16 slots<br>2 x M.2 slots: M-key, PCIe Gen5 x4, 2242/2260/2280/22110 | | |



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

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