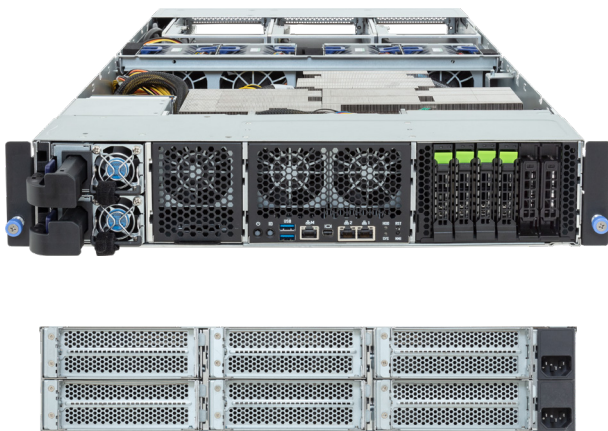


# XH23-VG0-AAJ1

MGX Server - NVIDIA Grace Hopper Superchip, 2U 4-Bay NVMe



## Features

- CPU+GPU design for giant-scale AI and HPC
- NVIDIA MGX™ modular server design
- NVIDIA Grace Hopper Superchip
- 900GB/s NVLink-C2C Interconnect
- Up to 480GB CPU LPDDR5X ECC memory
- Up to 96GB GPU HBM3 (or upcoming 144GB HBM3e)
- Compatible with NVIDIA BlueField®-3 DPUs
- 2 x 10Gb/s BASE-T LAN ports via Intel® X550-AT2
- 1 x Dedicated management port
- 4 x 2.5" Gen5 NVMe hot-swappable 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

## Specification

**Dimensions** 2U (W438 x H88 x D900 mm)

**Motherboard** MVG3-MG0

**Superchip** NVIDIA Grace Hopper™ Superchip:  
 - 1 x Grace CPU  
 - 1 x Hopper H100 GPU  
 - Connected with NVLink-C2C  
 - TDP up to 1000W (CPU + GPU + memory)

**Memory** 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)

**LAN** 2 x 10GbE LAN ports (2 x Intel® X550-AT2) - Support NCSI function  
 1 x 10/100/1000 Mbps Management LAN

**Video** Integrated in ASPEED AST2600  
 2D Video Graphic Adapter with PCIe bus interface  
 1920x1200@60Hz 32bpp

**Storage** 4 x 2.5" Gen5 NVMe hot-swappable bays

**RAID** N/A

**Expansion Slots** 3 x FHFL PCIe Gen5 x16 slots  
 2 x M.2 slots: M-key, PCIe Gen5 x4, 2242/2260/2280/22110

**Front I/O** 2 x USB 3.2 Gen1  
 1 x Mini-DP  
 2 x RJ45  
 1 x MLAN

**Backplane I/O** Speed and bandwidth: PCIe Gen5 x4

**TPM** 1 x TPM header with SPI interface  
 Optional TPM2.0 kit: CTM012

**Power Supply** Dual 2000W 80 PLUS Titanium redundant power supply  
 AC Input: 100-240V

**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

**System Fans** 3 x 60x60x56mm, 4 x 80x80x80mm

**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 XH23-VG0  
 1 x Rail kit

**Reference Numbers** Barebone package: 6NXH23VG0MR000AAJ1\*  
 - Power supply: 25EP0-22000N-G1S



Learn more about GIGABYTE server, visit <https://www.gigacomputing.com>

\* All specifications are subject to change without notice. Please visit our website for the latest information.  
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