XH23-VG0-AAJ1
MGX Server - NVIDIA GH200 Grace Hopper Superchip

**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 DPU
- 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**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>2U (W438 x H87 x D900 mm)</th>
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<tbody>
<tr>
<td>Motherboard</td>
<td>MVG3-MG0</td>
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<tr>
<td>Superchip</td>
<td>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)</td>
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<tr>
<td>Memory</td>
<td>NVIDIA Grace CPU: - Up to 480GB of LPDDR5X memory with ECC - Memory bandwidth up to 512GB/s NVIDIA Hopper GPU: - Up to 96GB HBM3 or 144GB HBM3e - Memory bandwidth up to 4TB/s (or 4.9TB/s)</td>
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<tr>
<td>LAN</td>
<td>2 x 10GbE LAN ports (2 x Intel® X550-AT2) - Support NCSI function 1 x 10/100/1000 Mbps Management LAN</td>
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<tr>
<td>Video</td>
<td>ASPEED® AST2600 Integrated 2D Graphic Adapter</td>
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<tr>
<td>Storage</td>
<td>4 x 2.5&quot; Gen5 NVMe bays</td>
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<tr>
<td>RAID</td>
<td>N/A</td>
</tr>
<tr>
<td>Expansion Slots</td>
<td>3 x FHFL PCIe Gen5 x16 slots 2 x M.2 slots: M-key, PCIe Gen5 x4, 2242/2260/2280/22110</td>
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**I/O Ports**
- Front side: 2 x USB 3.2 Gen1, 1 x Mini-DP, 2 x RJ45, 1 x MLAN

**Backplane Board**
- 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)

**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)

Learn more about GIGABYTE server at [https://www.gigabyte.com/enterprise](https://www.gigabyte.com/enterprise)

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