GIGABYTE™

# G593-ZD1-AAX3 (Rev. 1.x)

HPC/AI Server - AMD EPYC™ 9004 Server Processors - 5U, DP, NVIDIA HGX™ H200



## Key Features

- NVIDIA HGX™ H200
- 900 GB/s GPU-to-GPU bandwidth with NVIDIA NVLink™
- Dual AMD EPYC™ 9004 Server processors
- 12-Channel DDR5 RDIMM per CPU with 24 x DIMMs
- 2 x 10 Gb/s LAN ports via Intel® X710-AT2
- 2 x M.2 slots with PCIe Gen3 x4 and x1
- 8 x 2.5" Gen5 NVMe/SATA/SAS-4 hot-swap bays
- 4 x FHHL PCIe x16 slots with Gen5 x16 lanes
- 8 x LP PCIe x16 slots with Gen5 x16 lanes
- 4+2 3000 W 80 PLUS Titanium redundant power supplies

## Applications

AI Platform, AI Training Server, AI Inference Server, High-Performance Computing Server...

## Specification

| | |
|---|---|
| **Dimensions** | 5U (W447 x H219.7 x D945 mm) |
| **Motherboard** | MZB3-G43 |
| **CPU** | AMD EPYC™ 9005 Server processors<br>AMD EPYC™ 9004 Server processors<br>Dual processors, cTDP up to 400 W |
| **OS Compatibility** | OS Support List |
| **Socket** | 2 x LGA 6096 (Socket SP5) |
| **Chipset** | System on Chip |
| **Memory** | 12-Channel DDR5 RDIMM, 24 x DIMMs<br>Up to 4800 MT/s |
| **LAN** | **Front:**<br>2 x 10 Gb/s LAN (1 x Intel® X710-AT2), Support NCSI<br>1 x 10/100/1000 Mb/s Management LAN<br>**Rear:**<br>1 x 10/100/1000 Mb/s Management LAN |
| **Video** | Integrated in ASPEED® AST2600<br>- 1 x VGA port |
| **Storage** | **Front hot-swap:**<br>8 x 2.5" Gen5 NVMe**/SATA/SAS-4** [1]<br>**Internal M.2:**<br>1 x M.2 (2280/22110), PCIe Gen3 x4<br>1 x M.2 (2280/22110), PCIe Gen3 x1<br><br>[1] Storage card is required to support SATA and SAS drives. |
| **RAID** | Require RAID add-in cards |
| **Modular GPU** | NVIDIA HGX™ H200 with 8 x SXM GPUs |
| **PCIe Expansion Slots** | 4 x FHHL x16 (Gen5 x16)<br>8 x LP x16 (Gen5 x16) |
| **I/O Ports** | **Front:**<br>2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN<br>**Rear:**<br>1 x MLAN |
| **Backplane Board** | PCIe Gen5 x4 or SATA 6 Gb/s or SAS-4 24 Gb/s |
| **TPM** | 1 x TPM header (SPI), Optional TPM 2.0 kit: CTM010 |
| **Power Supply** | 4+2 3000 W 80 PLUS Titanium redundant power supplies<br>AC Input: 115-240 V<br><br>*The system power supply requires C19 power cord. |
| **System Management** | ASPEED® AST2600 Baseboard Management Controller<br>GIGABYTE Management Console web interface |
| **System Fans** | Motherboard:<br>2 x 40x40x56mm<br>4 x 60x60x56mm<br>PCIe slots:<br>4 x 40x40x28mm<br>2 x 40x40x56mm<br>GPU tray:<br>6 x 60x60x76mm<br>11 x 80x80x80mm |
| **Operating Properties** | Operating: 10°C to 35°C, 8% to 80% (non-condensing)<br>Non-operating: -40°C to 60°C, 20% to 95% (non-condensing) |
| **Packaging Content** | 1 x G593-ZD1-AAX3<br>2 x CPU heatsinks<br>1 x L-shape Rail kit |
| **Ordering Part Numbers** | 6NG593ZD1DR000ABX3* |

Learn more at: https://www.gigabyte.com/Enterprise

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