**G293-Z22-AAP1**

GPU Server - 2U UP 8-GPU 8-bay NVMe/SATA

### Features
- Supports up to 8 x Dual slot Gen5 GPU cards
- AMD EPYC™ 9004 series processors
- Single processor, 5nm technology
- 12-Channel RDIMM DDR5, 12 x DIMMs
- Dual ROM Architecture supported
  - 2 x 10Gb/s BASE-T LAN ports
  - 1 x Dedicated management port
  - 4 x 2.5" Gen5 NVMe/SATA hot-swappable bays
  - 4 x 2.5" SATA hot-swappable bays
- 2 x M.2 slots with PCIe Gen5 x4 interface
- 8 x FHFL PCIe Gen5 x16 slots for GPUs
- 2 x LP PCIe Gen5 x16 slots for add-on cards
- Dual 3000W (240V) 80 PLUS Titanium redundant power supply

### Specification

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>2U (W448 x H87.5 x D800mm)</th>
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<tbody>
<tr>
<td>Motherboard</td>
<td>M23-G20</td>
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</table>
| CPU | AMD EPYC™ 9004 series processor family
  - Up to 84-core, 168 threads per processor
  - 1 x LGA 6096 Socket SP5 |
| Chipset | System on Chip |
| Memory | 12 x DIMM slots
  - 12-Channel DDR5 memory, up to 4800 MHz
  - RDIMM modules up to 128GB supported
  - 3DS RDIMM modules up to 256GB supported |
| LAN | 2 x 10Gb/s BASE-T LAN ports (1 x Broadcom® BCM57416)
  - Supported NCSCI function
  - 1 x 10/100/1000 management LAN |
| Video | Integrated in Aspeed AST2600
  - 2D Video Graphic Adapter with PCIe bus interface
  - 1920x1200@60Hz 32bpp, DDR4 SDRAM |
| Storage | 4 x 2.5" Gen5 NVMe/SATA SAS hot-swappable bays
  - SAS card is required for SAS devices support |
| Expansion | 8 x PCIe Gen5 x16 FHFL slots for GPUs
  - 2 x PCIe Gen5 x16 low-profile slots
  - 2 x M.2 slots M-key, PCIe Gen5 x4, supports 2280/22110 cards |
| Rear I/O | 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN |
| Backplane I/O | PCIe Gen5 x4 or SATA 6Gb/s or SAS 12Gb/s |

### TPM

- 1 x TPM header with SPI interface
  - Optional TPM2.0 kit: CTM010

### Power Supply

- Dual 3000W 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

- Windows Server 2019 / 2022
- RHEL 8.6 / 8.7 / 9.0 / 9.1 (x64)
- SLES 15 SP4 (x64)
- VMware ESXi 7.0 Update 3i / 8.0
- Citrix Hypervisor 8.2.1

### System Fans

- 8 x 80x80x38mm (18,300rpm)

### Operating Temperatures

- Operating temperature: 10°C to 35°C
- Non-operating temperature: -40°C to 60°C

### Non-operating Humidity

- 20%-95% (non-condensing)

### Packaging

- 1 x G293-Z22
- 1 x CPU heatsink
- 1 x Rail kit

### Reference Numbers

- Barebone package: 6NG293Z22DR000AAP1*
  - Motherboard: 9MZ23G20UR000
  - Rail kit: 25HB2-A86102-K0R
  - CPU heatsink: 25ST1-25320N-M1R
  - Power supply: 25EP0-230005-G1S
  - C19 power cord 125V/16A (US): 25CP1-018000-Q0R (optional)
  - C19 power cord 250V/16A (EU): 25CP3-01830H-Q0R (optional)

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

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