# G482-Z51

## HPC Server - 4U DP 8 x Gen4 GPUs

## Features

- Up to 8 x PCIe Gen4 GPGPU cards
- Dual AMD EPYC™ 7003 Series processors
- 8-Channel RDIMM/LRDIMM DDR4 per processor, 32 x DIMMs
- 2 x 10Gb/s BASE-T LAN ports
- 2 x 1Gb/s BASE-T LAN ports
- 1 x dedicated management port
- 10 x SATA 2.5" hot-swappable HDD/SSD bays
- 8 x FHFL Gen4 expansion slots for GPU cards
- 3 x 80 PLUS Platinum 2200W redundant PSU

## Specification

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>4U (W448 x H176 x D800 mm)</th>
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<tbody>
<tr>
<td>Motherboard</td>
<td>MZS2-G40 Rev. 3.0</td>
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</table>
| CPU            | AMD EPYC™ 7003 Series processors  
                  Dual processors, 7nm, Socket SP3  
                  Up to 64-core, 128 threads per processor  
                  TDP up to 225W, cTDP up to 280W, Fully support 280W  
                  Compatible with AMD EPYC™ 7002 Series processors |
| Chipset        | System on Chip               |
| Memory         | 8-Channel DDR4 memory, 32 x DIMM slots  
                  RDIMM/LRDIMM modules up to 128GB supported  
                  3DS RDIMM/LRDIMM modules up to 256GB supported  
                  Memory speed: Up to 3200/ 2933 MHz |
| LAN            | Rear Side: 2 x 10Gb/s BASE-T LAN ports (Intel® X550-AT2)  
                  1 x 10/100/1000 management LAN  
                  Front Side: 2 x 1Gb/s BASE-T LAN ports (Intel® I350-AM2) |
| Video          | Integrated in Aspeed® AST2500  
                  2D Video Graphic Adapter with PCIe bus interface  
                  1920x1200@60Hz 32bpp |
| Storage        | 10 x 2.5" SATA hot-swap HDD/SSD bays  
                  NOTE: SATA devices supported only |
| RAID           | N/A                          |
| Expansion Slots | 8 x PCIe x16 slots (Gen4 x16) for GPUs |
| Front I/O      | 2 x USB 3.0, 1 x VGA, 2 x RJ45, 1 x MLAN (Reserved) |
| Rear I/O       | 2 x RJ45, 1 x MLAN (Primary port) |

## Backplane I/O

- 10 x 2.5" ports (supports SATA 6Gb/s)

## TPM

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

## Power Supply

- 3 x 2200W 80 PLUS Platinum power supply
- AC Input: 100-240V

## System Management

- Aspeed® AST2500 management controller
- GIGABYTE Management Console (AMI MegaRAC SP-X)

## OS

- Windows Server 2016 / 2019
- RHEL 8.3 (x64) or later
- SLES 12 SP5 (x64) / 15 SP2 (x64) or later
- Ubuntu 18.04.5 LTS (x64) / 20.04 LTS (x64) or later
- VMware ESXi 6.7 Update3 P03 / 7.0 Update1 or later
- Citrix Hypervisor 8.2.0 or later

## System Fans

- 12 x 60x60x38mm (21700rpm)

## Operating

- 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

- 1 x G482-Z51
- 2 x CPU heatsinks
- 1 x Rail kit

## Reference Numbers

- Barebone with rail kit: 6NG482Z51MR-00 Rev. A00
  - Motherboard: 9MZ52G40NR-00
  - Rail kit: 25HB2-A96100-K08
  - CPU fan-sink: 12SFP-01A067-00R
  - Fan module kit: 6NG481HAAR-00-100
  - Power supply: 25EPO-222003-0DS

Learn more about GIGABYTE server solutions, visit [www.gigabyte.com/Enterprise](http://www.gigabyte.com/Enterprise)

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