## G482-Z52

**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 1Gb/s BASE-T LAN ports
- 1 x dedicated management port
- 2 x 2.5” NVMe, 8 x 2.5” SATA hot-swappable HDD/SSD bays
- 8 x FHFL Gen4 expansion slots for GPU cards
- 1 x FHFL PCIe Gen4 x16 expansion slot
- 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>MZ52-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 | 2 x 1Gb/s BASE-T LAN ports (Intel® I350-AM2)  
1 x 10/100/1000 management LAN |
| Video | Integrated in Aspeed® AST2500  
2D Video Graphic Adapter with PCIe bus interface  
1920x1200@60Hz 32bpp |
| Storage | 2 x 2.5" Gen4 U.2, 8 x 2.5" SATA hot-swap HDD/SSD bays  
NOTE: non-supported SAS devices |
| RAID | N/A |
| Expansion Slots | 8 x PCIe x16 slots (Gen4 x16) for GPUs  
1 low profile PCIe Gen4 x16 expansion slot in rear side |
| Front I/O | 2 x USB 3.0, 1 x VGA, 2 x RJ45, 1 x MLAN |
| Rear I/O | N/A |
| Backplane I/O | 8 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 (21,700rpm) |
| Operating Temperature | Operating temperature: 10°C to 35°C |
| Operating Humidity | Operating humidity: 8-80% (non-condensing)  
Non-operating humidity: -40°C to 60°C  
Non-operating humidity: 20%-95% (non-condensing) |
| Packaging | 1 x G482-Z52  
2 x CPU heatsinks  
1 x Rail kit |
| Reference Numbers | Barebone with rail kit: 6NG482Z52MR-00 Rev. A00  
- Motherboard: MZ52G40NR-00  
- CPU kit: 25HB2-A96100-K0R  
- CPU fan-sink: 12S2P-01A067-00R  
- Fan module kit: 6NG481HAASR-00-100  
- Power supply: 25EP0-220003-D0S |

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