# G292-Z40

## HPC Server - 2U DP 8 x Gen4 GPUs

### Features
- Supports up to 8 x double slot GPU cards
- Dual AMD EPYC™ 7002 series processor family
- 8-Channel RDIMM/LRDIMM DDR4, total 16 x DIMMs
- 2 x 10Gb/s BASE-T LAN ports (Intel® X550-AT2 controller)
- 1 x Dedicated management port
- 8 x 2.5" hot-swappable HDD/SSD bays
- 8 x PCIe Gen4 expansion slots for GPUs
- 2 x PCIe Gen4 x16 half-length low-profile slots for add-on cards
- Aspeed® AST2500 remote management controller
- 2+0 2200W 80 PLUS Platinum power supply

## Specification

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>2U (W448 x H87.5 x D800 mm)</th>
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<tbody>
<tr>
<td>Motherboard</td>
<td>MZ42-G20</td>
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</table>
| CPU | AMD EPYC™ 7002 series processor family  
Dual processors, 7nm, Socket SP3  
Up to 64-core, 128 threads per processor  
cTDP up to 240W |
| Chipset | System on Chip |
| Memory | 8-Channel DDR4 memory, 16 x DIMM slots  
RDIMM/LRDIMM modules up to 128GB supported  
Memory speed: Up to 3200 MHz |
| LAN | 2 x 10Gb/s BASE-T LAN ports (Intel® X550-AT2 controller)  
1 x 10/100/1000 management LAN |
| Video | Integrated in Aspeed® AST2500  
2D Video Graphic Adapter with PCIe bus interface  
1920x1200@60Hz 32bpp |
| Storage | 8 x 2.5" hot-swappable HDD/SSD bays  
- 4 x amber trays compatible with Gen3 U.2 or SATA/SAS devices  
- 4 x blue trays compatible with SATA/SAS devices only  
SAS card is required for SAS devices support  
Recommended 12Gb/s SAS cards: CRA4448, CRA4548 |
| SATA | Supported |
| SAS | Supported via add-on SAS Card |
| RAID | Depends on RAID HBA |
| Expansion Slots | 8 x PCIe x16 slots (Gen4 x16 bus) for GPUs (Microchip solution)  
2 x PCIe x16 (Gen4 x16) Half-length low-profile slots |
| Internal I/O | 1 x TPM header |
| Front I/O | - |
| Rear I/O | 2 x USB 3.0, 1 x VGA, 2 x RJ45, 1 x M-LAN |

## Backplane I/O
- 8 x SAS/SATA or 4 x Gen3 U.2 ports and 4 x SAS/SATA  
Backplane P/N: 9CBPG083NR-00  
Bandwidth: SATA 6Gb/s, SAS 12Gb/s and PCIe Gen3 x4
- 1 x TPM header with SPI interface  
Optional TPM2.0 kit: CTM010

## Power Supply
- 2+0 2200W 80 PLUS Platinum power supply

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

## OS Compatibility
- Windows Server 2016 / 2019
- RHEL 7.6 (x64) / 8.0 (x64) or later  
SLES 12 SP4 (x64) / 15 SP1 (x64) or later  
Ubuntu 16.04.6 LTS (x64) / 18.04.3 LTS (x64) / 20.04 LTS (x64)  
VMware ESXi 6.5 EP15 / 6.7 Update3 / 7.0 or later  
Citrix Hypervisor 8.1.0

## Weight
- Net Weight: 30 kg  
Gross Weight: 36 kg

## System Fans
- 8 x 80x80x38mm (16,300rpm)

## 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)

## Packaging
- 1 x G292-Z40  
2 x CPU heat sinks  
1 x Rail kit

## Reference Numbers
- Barebone with rail kit: 0NG292Z40MR-00  
- Motherboard: 9MZ42-G20NR-00  
- Tool-less rail kit: 25HB2-A86102-K0R  
- CPU heatsink: 25ST1-44320N-43R  
25ST1-44320P-43R  
- Backplane board: 9CBPG083NR-00  
- Fan module: 25ST2-883827-D0R  
- Power supply: 25EP0-222001-D0S  
- C19 type power cord 125V/15A (US): 25CP1-018000-Q0R (optional)  
C19 type power cord 250V/15A (US): 25CP1-018000-Q0R (optional)  
C19 type power cord 250V/16A (EU): 25CP3-018300-Q0R (optional)

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