G292-Z45
HPC Server - 2U DP 8 x Gen4 GPUs

Features
- Supports up to 8 x double slot GPU cards
- Dual AMD EPYC™ 7003 Series processors
- 8-Channel RDIMM/LRDIMM DDR4 per processor, total 16 x DIMMs
- 2 x 1Gb/s LAN ports (Intel® I350-AM2 controller)
- 1 x Dedicated management port
- 8 x 2.5" hot-swappable HDD/SSD bays
- 8 x PCIe Gen4 x16 expansion slots for GPUs
- 2 x PCIe Gen4 half-length low-profile slots for add-on cards
- Aspeed® AST2500 remote management controller
- 2+0 2200W (240V) 80 PLUS Platinum power supply

Specification

<table>
<thead>
<tr>
<th>Dimension</th>
<th>2U (W448 x H87.5 x D800 mm)</th>
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<tbody>
<tr>
<td>Motherboard</td>
<td>MZ42-G21</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  
tCDP up to 240W  
Compatible with AMD EPYC™ 7002 Series processors |
| Chipset | System on Chip |
| Memory | 8-Channel DDR4 memory, 16 x DIMM slots  
RDIMM/LRDIMM modules up to 128GB supported  
3DS RDIMM/LRDIMM modules up to 256GB supported  
Memory speed: Up to 3200 MHz |
| LAN | 2 x 1Gb/s LAN ports (Intel® I350-AM2 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" SATA/SAS hot-swappable HDD/SSD bays  
SAS card is required for SAS devices support  
Recommended 12Gb/s SAS cards: CRA4448, CRA4548 |
| Expansion Slots | 8 x PCIe x16 slots (Gen4 x16) for GPUs  
1 x PCIe x16 (Gen4 x16) Half-length low-profile slot  
1 x PCIe x16 (Gen4 x8) Half-length low-profile slot |
| Front I/O | - |
| Rear I/O | 2 x USB 3.0, 1 x VGA, 2 x RJ45, 1 x MLAN |
| Backplane I/O | 8 x SAS/SATA ports  
Bandwidth: SATA 6Gb/s, SAS 12Gb/s |
| TPM | 1 x TPM header with SPI interface  
Optional TPM2.0 kit: CTM010 |
| Power Supply | 2+0 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 |
| 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) |
| Package Contents | 1 x G292-Z45, 2 x CPU heatsinks, 1 x Rail kit |
| Reference Numbers | Barebone with rail kit: GN292Z45MR-00 Rev. A00  
- Motherboard: 9MZ42G21NR-00  
- Tool-less rail kit: 25HB2-A86102-K0R  
- CPU heatsink: 25ST1-44320N-A3R / 25ST1-44320P-A3R  
- Back plane board: 9CBPG084NR-00  
- Fan module: 25ST2-883827-D0R  
- Power supply: 25EP0-222008-D0S |

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