G292-Z22
HPC Server - 2U UP 8 x Gen3 GPUs

**Features**
- Supports up to 8 x double slot GPU cards
- Single AMD EPYC™ 7003 Series processors
- 8-Channel RDIMM/LRDIMM DDR4, 8 x DIMMs
- 2 x 10Gb/s SFP+ LAN ports (Mellanox® ConnectX-4 Lx)
- 1 x Dedicated management port
- 6 x SATA and 2 x Gen3 U.2/SATA 2.5" hot-swap HDD/SSD bays
- 2 x M.2 with PCIe Gen3 x4/x2 interface
- 8 x PCIe Gen3 expansion slots for GPU cards
- 2 x PCIe Gen4 x16 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>Dimensions</th>
<th>2U (W448 x H87.5 x D800 mm)</th>
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<tbody>
<tr>
<td>Motherboard</td>
<td>M22G20 Rev. 3.0</td>
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</table>
| CPU | AMD EPYC™ 7003 Series processors
| | Single processor, 7nm technology, cTDP up to 280W
| | Up to 64-core, 128 threads per processor
| | Compatible with AMD EPYC™ 7002 Series processors |
| Chipset | System on Chip |
| Memory | 8-Channel DDR4 memory, 8 x DIMM slots
| | RDIMM/LRDIMM modules up to 128GB supported
| | Memory speed: Up to 3200 MHz |
| LAN | 2 x SFP+ 10Gb/s LAN ports (Mellanox® ConnectX-4 Lx controller)
| | Pin-to-Pin compatible with Mellanox® 25Gb/s LAN controller (as an option)
| | 1 x 10/100/1000 management LAN |
| Video | Integrated in Aspeed® AST2500
| | 2D Video Graphic Adapter with PCIe bus interface
| | 1920x1200@60Hz 32bpp, DDR4 SDRAM |
| Storage | 6 x 2.5" SATA/SAS hot-swappable HDD/SSD bays
| | 2 x 2.5" NVMe/SATA hot-swappable SSD bays
| | 1 x M.2 slot: M-key, PCIe Gen3 x4
| | - Supports NGFF-2242/2280/2280/22110 cards
| | 1 x M.2 slot: M-key, PCIe Gen3 x2
| | - Supports NGFF-2242/2280/2280/22110 cards |
| SATA | Supported |
| SAS | Supported via add-on SAS Card |
| RAID | Depends on RAID HBA |
| Expansion Slots | 8 x PCIe x16 slots (Gen3 x16 bus) for GPU cards
| | 2 x PCIe x16 (Gen4 x16 bus) Low-profile half-length slots |
| Internal I/O | 1 x TPM header, 4 x SlimSAS, 2 x M.2 slots, 1 x Buzzer |
| Rear I/O | 2 x USB 3.0, 1 x VGA, 2 x SFP+, 1 x MLAN |

**Backplane I/O**
- 6 x SAS/SATA and 2 x NVMe ports
- Backplane P/N: 9C8BP083NR-00
- Bandwidth: SATA 6Gb/s, SAS 12Gb/s and PCIe x4

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

**Power Supply**
- 2+0 2200W (240V) 80 PLUS Platinum power supply

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

**OS Compatibility**
- 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

**Weight**
- Net Weight: 29.5 kg / Gross Weight: 34.7 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 Content**
- 1 x G292-Z22
- 1 x CPU heatsinks
- 1 x Rail kit

**Reference Numbers**
- Barebone with rail kit: 6NGG292Z22MR-00 Rev. A00
- Motherboard: 9M22G20NR-00
- Tool-less rail kit: 25H82-A86105-K0R
- CPU heatsink: 25STI-44320I-A0R
- Back plane board: 9CBPG083NR-00
- Fan module: 25STZ-888887-00R
- Power supply: 25EP0-222003-00S
- C19 type power cord 125V/15A (US): 25CP1-018000-Q0R (optional)
- C19 type power cord 250V/16A (EU): 25CP3-018300-Q0R (optional)
- C19 type power cord 250V/15A (US): 25CP1-018300-Q0R (optional)