G292-Z24
HPC Server - 2U UP 8 x Gen4 GPUs

**Features**

- Supports up to 8 x double slot GPU cards
- Single AMD EPYC™ 7002 series processor family
- 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 2.5” SATA and 2 x 2.5 NVMe/SATA hot-swap HDD/SSD bays
- 2 x M.2 with PCIe Gen3 x4/x2 interface
- 8 x PCIe Gen4 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 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>MZ22-G20</td>
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</table>
| CPU                                | AMD EPYC™ 7002 series processor family  
  Single processor, 7nm technology, Socket SP3  
  Up to 64-core, 128 threads per processor  
  TDP up to 225W, cTDP up to 240W, Fully support 280W |
| 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-2242/2260/2280/22110 cards  
  1 x M.2 slot: M-key, PCIe Gen3 x2  
  - Supports NGFF-2242/2260/2280/22110 cards |
| 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 (Broadcom solution)  
  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: 9CBPG083MR-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 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: 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**

- 1 x G292-Z24  
  1 x CPU heatsinks  
  1 x Rail kit

**Reference Numbers**

- Barebone with rail kit: BNG292Z24MR-00  
  - Motherboard: 9MZ22G20NR-00 (TBD)  
  - Tool-less rail kit: 25HB2-A86102-K0R  
  - CPU heatsink: 9ST51-44320I-A0R  
  - Back plane board: 9CBPG083MR-00 (TBD)  
  - Fan module: 25ST2-883827-D0S  
  - Power supply: 25EP0-222001-00S  
  - 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)