G292-Z42
HPC Server - 2U DP 8 x Gen3 GPUs

**Features**
- Supports up to 8 x double slot GPU cards
- Dual AMD EPYC™ 7003 Series processors
- 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 Gen3 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 (240V) 80 PLUS Platinum power supply

**Specification**

**Dimensions**
2U (W448 x H87.5 x D800 mm)

**Motherboard**
MZ42-G20 Rev. 3.0

**CPU**
AMD EPYC™ 7003 Series processors
Dual processors, 7nm technology, cTDP up to 240W
Up to 64-core, 128 threads per processor
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
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

**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 GPUs
2 x PCIe x16 (Gen4 x16) Half-length low-profile slots

**Internal I/O**
1 x TPM header

**Front I/O**
- 2 x USB 3.0, 1 x VGA, 2 x RJ45, 1 x MLAN

**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

**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 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: 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 Content**
1 x G292-Z42
2 x CPU heatsinks
1 x Rail kit

**Reference Numbers**
Barbone with rail kit: 6NG292Z42MR-00 Rev. A00
- Motherboard: 9M2Z42G20NR-00
- Tool-less rail kit: 25H2B-A86102-K0R
- CPU heatsink: 25ST1-44320N-A3R 25ST1-44320P-A3R
- Back plane board: 9CBPG083NR-00
- Fan module: 25ST2-883827-D0R
- Power supply: 25EP0-222001-00S
- C19 type power cord 125V/15A (US): 25CP1-018000-Q0R (optional)
- C19 type power cord 250V/15A (EU): 25CP3-01830H-Q0R (optional)
- C19 type power cord 250V/16A (EU): 25CP3-01830H-Q0R (optional)

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