G292-Z44
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, 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 (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
- 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
- 8 x PCIe x16 slots (Gen4 x16 bus) for GPUs (Broadcom 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 MLAN

Backplane I/O
- 8 x SAS/SATA or 4 x Gen3 U.2 ports and 4 x SAS/SATA
- Backplane P/N: 9C8PG083NR-00
- Bandwidth: SATA 6Gb/s, SAS 12Gb/s and PCIe Gen3 x4

TPM
- 1 x TPM header with SPI interface
- Optional TPM2.0 kit: CTM1010

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 / 15 SP2 (x64) or later
- VMware ESXi 6.7 Update3 P03 / 7.0 Update1 or later
- Citrix Hypervisor 8.2 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 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)
- Operating temperature: 40°C to 60°C
- Operating humidity: 20%-95% (non-condensing)

Packaging Content
- 1 x G292-Z44
- 2 x CPU heatsinks
- 1 x Rail kit

Reference Numbers
- Barebone with rail kit: 6NG292Z44MR-00 Rev. A00
- Motherboard: MZ42-G20 Rev. 3.0
- Tool-less rail kit: 25HB2-A86102-K0R
- CPU heatsink: 25ST1-44320N-A3R / 25ST1-44320P-A3R
- Back plane board: 9CBPG083NR-00
- Fan module: 25ST2-883827-D0R
- Power supply: 25EP0-222001-D0S
- C19 type power cord 120V/15A (US): 25CP1-018000-Q0R
- C19 type power cord 250V/15A (US): 25CP1-018300-Q0R
- C19 type power cord 250V/15A (EU): 25CP3-018300-Q0R

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