**GIGABYTE™**

**G292-Z20**

HPC Server - 2U UP 8 x Gen4 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 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 (240V) 80 PLUS Platinum power supply

### Specification

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

**Motherboard**
- MZ22-G20 Rev. 3.0

**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-2242/2260/2280/22110 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 (Microchip 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

**Rear I/O**
- 2 x USB 3.0, 1 x VGA, 2 x SFP+, 1 x BUZZER

**Backplane I/O**
- 6 x SAS/SATA and 2 x NVMe ports
- Backplane P/N: 9CBPG083NR-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 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

**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-Z20
  - 1 x CPU heatsinks
  - 1 x Rail kit

**Reference Numbers**
- Barebone with rail kit: 6NG292Z20MR-00 Rev. A00
  - Motherboard: 9MZ22-G20NR-00
  - Tool-less rail kit: 25HB2-A86102-K0R
  - CPU heatsink: 25ST1-44320I-A0R
  - Back plane board: 9CBPG083NR-00
  - Fan module: 25ST2-883827-D0R
  - Power supply: 25EP0-222001-D0S
  - C19 type power cord 125V/15A (US): 25CP1-018000-Q0R
  - C19 type power cord 250V/16A (EU): 25CP3-01830H-Q0R (optional)
  - C19 type power cord 250V/15A (US): 25CP1-018300-Q0R (optional)

---

* All specifications are subject to change without notice. Please visit our website for the latest information.
* AMD, and the AMD Arrow logo, AMD EPYC and combinations thereof are trademarks of Advanced Micro Devices, Inc.
* NVIDIA, the NVIDIA logo are trademarks and/or registered trademarks of NVIDIA Corporation in the U.S. and other countries.