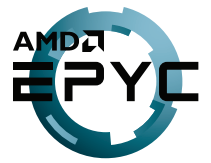# GIGABYTE™

G152-Z12 (rev. 200)

1U UP 2 x Gen4 GPU Immersion Server

AMD EPYC

Features

- Single-Phase Immersion Ready Server
- Single AMD EPYC™ 7003 series processor family
- 8-Channel RDIMM/LRDIMM DDR4, 8 x DIMMs
- Dual 10Gb/s BASE-T LAN ports (Intel® X550-AT2)
- 1 x dedicated management port
- 4 x 2.5" Gen4 NVMe internal SSD bays
- 2 x PCIe Gen4 x16 FHFL slots for dual-slot GPU cards
- 2 x PCIe Gen4 x16 low-profile expansion slots
- Aspeed AST2500 remote management controller
- 2000W (240V) 80 PLUS Platinum redundant power supply

Specification

Dimensions	1U (W448 x H43.5 x D808 mm)
Motherboard	MZ12-HD7
CPU	AMD EPYC™ 7003 Series processors Single processor, 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, 8 x DIMM slots, up to 3200 MHz RDIMM/LRDIMM modules up to 128GB supported 3DS RDIMM/LRDIMM modules up to 256GB supported
LAN	2 x 10Gb/s BASE-T LAN ports (Intel® X550-AT2) - NCSI supported 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	4 x 2.5" Gen4 NVMe internal HDD/SSD bays - NOTE: non-supported SATA devices
SAS	N/A
RAID	N/A
Expansion Slots	2 x PCIe x16 slots (Gen4 x16) for dual-slot GPUs 2 x PCIe x16 (Gen4 x16) low-profile slots
Front I/O	2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN
Rear I/O	N/A

Backplane I/O	2 x CBP2023: 4 x Gen4 NVMe ports Speed and bandwidth: PCIe Gen4 x4 per port
TPM	1 x TPM header with SPI interface Optional TPM2.0 kit: CTM010
Power Supply	Dual 2000W 80 PLUS Platinum power supply AC Input: 100-240V
System Management	Aspeed® AST2500 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
OS Compatibility	Windows Server 2016 / 2019 / 2022 RHEL 8.3 / 9 (x64) or later SLES 12 SP5 / 15 SP2 (x64) or later Ubuntu 18.04.5 LTS / 20.04 LTS / 22.04 LTS (x64) or later VMware ESXi 6.7 Update3 P03 / 7.0 Update1 or later Citrix Hypervisor 8.2.0 or later
System Fans	N/A
Operating Properties	Non-operating temperature: -40°C to 60°C Non-operating humidity: 20%-95% (non-condensing)
Packaging Content	1 x G152-Z12 1 x CPU heatsink
Reference Numbers	Barebone: 6NG152Z12MR-00-2* - Motherboard: 9MZ12HD7NR-00 - CPU heatsink: 25ST1-443108-A0R - Back plane board_2-port: 9CBP2023NR-00 - OCP type NVMe card: 9CNV9135NR-00 - Power board: 9CPDHDD2NR-00 - LAN module board: 9CFPG100NR-00 - Power supply: 25EP0-22000D-L0S

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