GIGABYTE™

G242-Z12

HPC System - 2U UP 4 x GPU Gen4 Server

AMD EPYC

Features

- Hardware-level root of trust support
- Up to 4 x NVIDIA PCIe Gen4 GPU cards
- Single AMD EPYC™ 7003 series processors
- 8-Channel RDIMM/LRDIMM DDR4 per processor, 8 x DIMMs
- 1 x dedicated management port
- 4 x SATA 3.5" hot-swap HDD/SSD bays in front side
- 2 x 2.5" Gen4 U.2//SATA hot-swap HDD/SSD bays in rear side
- 2 x PCIe Gen4 expansion slots
- 1 x OCP 3.0 Gen4 x16 mezzanine slot
- 2 x 80 PLUS Platinum 1600W (240V) redundant PSU

Specification

Dimensions	2U (W438 x H87.5 x D820 mm)	**Backplane I/O**	Front side_CBPG041: 4 x SATA/SAS ports Rear side_CBP2021: 2 x NVMe/SATA/SAS ports Speed & bandwidth: SATA 6Gb/s, SAS 12Gb/s or PCIe x4 per port
Motherboard	MZ12-HD6		
CPU	AMD EPYC™ 7003 Series processors Single processor, 7nm technology Up to 64-core, 128 threads per processor cTDP up to 280W Compatible with AMD EPYC™ 7002 Series processors	**TPM**	1 x TPM header with SPI interface Optional TPM2.0 kit: CTM010
		Power Supply	2+0 1600W 80 PLUS Platinum power supply AC Input: 100-240V
Chipset	System on Chip	**System Management**	Aspeed® AST2600 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
Memory	8-Channel DDR4 memory, 8 x DIMM slots RDIMM/LRDIMM modules up to 128GB supported 3DS RDIMM/LRDIMM modules up to 256GB supported Memory speed: Up to 3200 MHz	**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
LAN	1 x 10/100/1000 management LAN		
Video	Integrated in Aspeed® AST2600 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp, DDR4 SDRAM	**System Fans**	5 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)
Storage	Front side: 4 x 3.5"/2.5" SATA hot-swap HDD/SSD bays SATA devices supported only Rear side: 2 x 2.5" Gen4 U.2/SAS/SATA hot-swap HDD/SSD bays SAS card is required for SAS devices support		
		Package Contents	1 x G242-Z12 1 x CPU heatsink 1 x Rail kit
Expansion Slots	4 x PCIe x16 slots (Gen4 x16) for GPU cards 1 x PCIe x16 slot (Gen4 x16 or x8), FHHL 1 x PCIe x8 slots (Gen4 x0 or x8), FHHL 1 x OCP 3.0 mezzanine slot with PCIe Gen4 x16 bandwidth	**Reference Numbers**	Barebone with rail kit: 6NG242Z12MR-00 Rev. A00 - Motherboard: 9MZ12HD6NR-00 - Rail kit: 25HB2-3A0202-K0R - CPU heatsink: 25ST1-15320E-J1R - Power supply: 25EP0-216007-L0S
Front I/O	1 x USB 3.0		
Rear I/O	2 x USB 3.0, 1 x VGA, 1 x MLAN		

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