**G242-Z12**

HPC System - 2U UP 4 x GPU Gen4 Server

### 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

<table>
<thead>
<tr>
<th>Dimension</th>
<th>2U (W438 x H87.5 x D820 mm)</th>
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<tbody>
<tr>
<td>Motherboard</td>
<td>MZ12-HD6</td>
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</table>
| 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 |
| Chipset         | System on Chip               |
| 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 |
| LAN             | 1 x 10/100/1000 management LAN |
| Video           | Integrated in Aspeed® AST2600  
                    | 2D Video Graphic Adapter with PCIe bus interface |
| 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/SATA hot-swap HDD/SSD bays  
                    | SAS card is required for SAS devices support |
| 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 |
| Front I/O       | 1 x USB 3.0                  |
| Rear I/O        | 2 x USB 3.0, 1 x VGA, 1 x MLAN |

### Backplane I/O

- Front side_CBPG041: 4 x SATA/SAS ports  
- Rear side_CBPG2021: 2 x NVMe/SATA/SAS ports  
- Speed & bandwidth: SATA 6Gb/s, SAS 12Gb/s or PCIe x4 per port

### 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

### System Management

Aspeed® AST2600 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 16.04.5 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

### 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)

### Package/Contents

1 x G242-Z12  
1 x CPU heatsink  
1 x Rail kit

### Reference Numbers

- Barebone with rail kit: 6NG242Z12MR-00 Rev. A00  
  - Motherboard: 9MZ12HD6MR-00  
  - Rail kit: 25HB2-3A0202-W00  
  - CPU heatsink: 25ST1-15302E-J1R  
  - Power supply: 25EP0-21600F-L0S

Learn more about GIGABYTE server solutions, visit [www.gigabyte.com/Enterprise](http://www.gigabyte.com/Enterprise)

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