

# G493-ZB2-AAP1

GPU Server - 4U DP 8-GPU 12-bay NVMe/SATA



## Features

- Supports up to 8 x dual-slot Gen5 GPU cards
- AMD EPYC™ 9004 series processor family
- Dual processors, 5nm technology
- 12-Channel RDIMM DDR5, 48 x DIMMs
- Dual ROM Architecture supported
- 2 x 1Gb/s BASE-T LAN ports (Intel® I350-AM2)
- 1 x dedicated management port
- 12 x 2.5" Gen5 NVMe/SATA hot-swappable bays
- 2 x M.2 slots with PCIe Gen3 x4 interface
- 8 x PCIe Gen5 x16 FHFL expansion slots for GPUs
- 4 x PCIe Gen5 x16 FHFL expansion slots
- 2 x PCIe Gen5 x16 LP MD2 expansion slots on front side
- 3+1 3000W (240V) 80 PLUS Titanium redundant power supply

## Specification

|                        |  |                             |   |
|------------------------|--|-----------------------------|---|
| <b>Dimensions</b>      | 4U (W448 x H176 x D880 mm)   | <b>Backplane I/O</b>        | PCIe Gen5 x4 or SATA 6Gb/s or SAS 12Gb/s  |
| <b>Motherboard</b>     | MZB3-G41   | <b>TPM</b>                  | 1 x TPM header with SPI interface<br>Optional TPM2.0 kit: CTM010  |
| <b>CPU</b>             | AMD EPYC™ 9004 series processor<br>Dual processor, 5nm technology, cTDP up to 400W<br>Up to 96-core, 192 threads per processor<br>2 x LGA 6096 Socket SP5  | <b>Power Supply</b>         | 3+1 3000W 80 PLUS Titanium redundant power supply<br>AC Input: 100-240V   |
| <b>Chipset</b>         | System on Chip   | <b>System Management</b>    | Aspeed® AST2600 management controller<br>GIGABYTE Management Console (AMI MegaRAC SP-X)   |
| <b>Memory</b>          | 48 x DDR5 DIMM slots, 12-Channel memory per processor<br>RDIMM modules up to 128GB supported<br>3DS RDIMM modules up to 256GB supported<br>Memory speed: Up to 4800 MHz (1DPC), 3600 MHz (2DPC)          | <b>OS Compatibility</b>     | Windows Server 2019 / 2022<br>RHEL 8.6 / 8.7 / 9.0 / 9.1 (x64)<br>SLES 15 SP4 (x64)<br>Ubuntu 20.04.5 LTS / 22.04 LTS / 22.04.1 LTS (x64)<br>VMware ESXi 7.0 Update 3i / 8.0<br>Citrix Hypervisor 8.2.1   |
| <b>LAN</b>             | 2 x 1Gb/s BASE-T LAN ports (1 x Intel® I350-AM2)<br>Supported NCSI function<br>1 x 10/100/1000 management LAN  | <b>System Fans</b>          | 6 x 60x60x38mm (23,000rpm)  |
| <b>Video</b>           | Integrated in Aspeed AST2600<br>2D Video Graphic Adapter with PCIe bus interface<br>1920x1200@60Hz 32bpp, DDR4 SDRAM   | <b>Operating Properties</b> | Operating temperature: 10°C to 35°C<br>Operating humidity: 8-80% (non-condensing)<br>Non-operating temperature: -40°C to 60°C<br>Non-operating humidity: 20%-95% (non-condensing)   |
| <b>Storage</b>         | 12 x 2.5" Gen5 NVMe/SATA/SAS hot-swappable bays<br>SAS card is required for SAS devices support  | <b>Packaging Content</b>    | 1 x G493-ZB2, 2 x CPU heatsinks<br>1 x Rail kit   |
| <b>Expansion Slots</b> | 8 x PCIe Gen5 x16 FHFL slots for GPUs<br>4 x PCIe Gen5 x16 FHFL slots on rear side<br>2 x PCIe Gen5 x16 Low-profile MD2 slots on front side<br>2 x M.2 slots (M-key, PCIe Gen3 x4, supports 2280/ 22110) | <b>Reference Numbers</b>    | Barebone with rail kit: 6NG493ZB2DR000AAP1*<br>- Motherboard: 9MZB3G41UR-000<br>- Rail kit: 25HB2-A96100-K0R<br>- CPU fan-sink: 25G49-3ZB000-E57X<br>- Power supply: 25EP0-230005-G1S<br>- C19 power cord 125V/15A (US): 25CP1-018000-Q0R (optional)<br>- C19 power cord 250V/16A (EU): 25CP3-01830H-Q0R (optional) |
| <b>Front I/O</b>       | 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN  |                             |   |
| <b>Rear I/O</b>        | N/A  |                             |   |



Learn more about GIGABYTE server, visit <https://www.gigacomputing.com>

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