

# R283-Z97-AAL1

Rack Server - 2U DP 12+4-Bay Gen5 NVMe/SATA



## Features

- Supports up to 2 x dual-slot Gen5 GPU cards
- AMD EPYC™ 9004 series processor family
- Dual processors, 5nm technology
- 12-Channel RDIMM DDR5, 24 x DIMMs
- Dual ROM Architecture supported
- 2 x 1Gb/s LAN ports and 1 x dedicated management port
- 8 x 3.5"/2.5" Gen5 NVMe/SATA/SAS4 hot-swappable bays
- 4 x 3.5"/2.5" SATA/SAS4 hot-swappable bays
- 4 x 2.5" SATA/SAS4 hot-swappable bays on rear side
- 2 x FHFL PCIe Gen5 x16 slots for GPUs
- 2 x FHHL PCIe Gen5 x16 slots
- 2 x OCP 3.0 Gen5 x16 slots
- 1+1 2700W 80 PLUS Titanium redundant power supplies

## Specification

|                         |  |                             |  |
|-------------------------|--|-----------------------------|--|
| <b>Dimensions</b>       | 2U (W438 x H87.5 x D815 mm)  | <b>Backplane I/O</b>        | PCIe Gen5 x4 or SATA 6Gb/s or SAS4 24Gb/s  |
| <b>Motherboard</b>      | MZ93-FS1   | <b>TPM</b>                  | 1 x TPM header with SPI interface<br>Optional TPM2.0 kit: CTM010   |
| <b>CPU</b>              | AMD EPYC™ 9004 series processors<br>AMD EPYC™ 9004 series processors with AMD 3D V-Cache™<br>Dual processors, 5nm technology<br>cTDP up to 300W at ambient 35°C<br>2 x LGA 6096 (Socket SP5)             | <b>Power Supply</b>         | 1+1 2700W 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>           | 24 x DIMM slots<br>12-Channel DDR5 memory, up to 4800 MHz<br>RDIMM modules up to 96GB supported<br>3DS RDIMM modules up to 256GB supported   | <b>OS Compatibility</b>     | Windows Server 2019 / 2022<br>RHEL 8.4 / 8.5 / 8.6 / 8.7 / 9 / 9.1 (x64)<br>SLES 15 SP3 / 15 SP3 SP4 (x64)<br>Ubuntu 22.04 LTS / 22.04.1 LTS (x64)<br>VMware ESXi 7.0 Update 3i / ESXi 8.0<br>Citrix Hypervisor 8.2.1                                      |
| <b>LAN</b>              | 2 x 1GbE LAN ports (ntel I350-AM2) - Supported NCSI function<br>1 x 10/100/1000 management LAN   | <b>System Fans</b>          | 4 x 80x80x38mm (18,300rpm)   |
| <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>          | 8 x 3.5"/2.5" Gen5 NVMe/SATA/SAS4 hot-swappable bays<br>4 x 3.5"/2.5" SATA/SAS4 hot-swappable bays<br>4 x 2.5" SATA/SAS4 hot-swappable bays on rear side<br>SAS card is required for SAS devices support | <b>Packaging Content</b>    | 1 x R283-Z97<br>2 x CPU heatsinks<br>1 x Mini-DP to D-Sub cable<br>1 x 2-Section Rail kit  |
| <b>Expansion Slots4</b> | 2 x FHFL PCIe Gen5 x16 slots for GPUs<br>2 x FHHL PCIe Gen5 x16 slots<br>2 x OCP 3.0 Gen5 x16 slots (supports NCSI function)   | <b>Part Numbers</b>         | Barebone package: 6NR283Z97DR000AAL1*<br>- Motherboard: 9MZ93FS1UR-000<br>- 2-Section Rail kit (CMA not supported): 25HB2-3A0206-K0R<br>- CPU heatsink: 25ST1-553202-A0R<br>- Mini-DP to D-Sub cable: 25CRN-200801-K1R<br>- Power supply: 25EP0-227000-D0S |
| <b>Front I/O</b>        | 2 x USB 3.2 Gen1   |                             |  |
| <b>Rear I/O</b>         | 2 x USB 3.2 Gen1, 1 x Mini-DP, 2 x RJ45, 1 x MLAN  |                             |  |



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

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