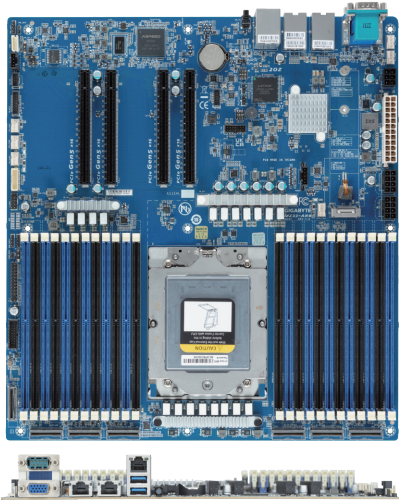# GIGABYTE™

# MZ33-AR0 (Rev. 1.x/3.x)

## Server Motherboard - E-ATX UP

**AMD EPYC**



## Features

- Single AMD EPYC™ 9004 Series Processors
- 12-Channel DDR5 RDIMM, 24 x DIMMs
- 2 x 10Gb/s LAN ports via Broadcom® BCM57416
- 2 x MCIO 8i connectors with PCIe Gen5 x8 or SATA interface
- 4 x MCIO 8i connectors with PCIe Gen5 x8 interface
- 1 x MCIO 8i connector with PCIe Gen4 x8 interface
- 1 x M.2 slot with PCIe Gen4 x4 interface
- 4 x PCIe Gen5 x16 expansion slots
- ASPEED® AST2600 Baseboard Management Controller

## Specification

| | | | |
|---|---|---|---|
| **Form Factor** | E-ATX (W305 x D330 mm) | **Internal I/O** | 1 x CPU fan header, 5 x System fan headers, 1 x USB 3.2 Gen1 x2 header, 1 x M.2 slot, 7 x MCIO 8i connectors, 1 x Front panel header1 x Backplane board header, 1 x PMBus connector, 1 x IPMB connector, 1 x TPM header |
| **CPU** | AMD EPYC™ 9005 Series Processors<br>AMD EPYC™ 9004 Series Processors<br>Single processor, cTDP up to 400W | | |
| **Socket** | 1 x LGA 6096, Socket SP5 | **OS Compatibility** | Microsoft Windows Server<br>Red Hat Enterprise Linux server<br>SUSE Linux Enterprise server<br>Ubuntu<br>VMware ESXi<br>Citrix Hypervisor |
| **Chipset** | System on Chip | | |
| **Memory** | 24 x DIMM slots<br>12-Channel DDR5 RDIMM<br>[EPYC 9005] Up to 4800 MT/s (1DPC), 4000 MT/s (1R 2DPC), 3600 MT/s (2R 2DPC)<br>[EPYC 9004] Up to 4800 MT/s (1DPC), 3600 MT/s (2DPC) | | |
| | | **Board Management** | ASPEED® AST2600 Baseboard Management Controller<br>GIGABYTE Management Console web interface |
| **LAN** | 2 x 10Gb/s LAN (1 x Broadcom® BCM57416) - Support NCSI<br>1 x 10/100/1000 Mbps Management LAN | **PSU Connectors** | 1 x 24-pin ATX main power connector<br>2 x 8-pin ATX 12V power connectors<br>1 x 6-pin ATX 12V power connector |
| **Video** | Integrated in ASPEED® AST2600  - 1 x Mini-DP | **Operating Properties** | Operating temperature: 10°C to 40°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) |
| **Audio** | N/A | | |
| **Storage Interface** | 2 x MCIO 8i for 4 x Gen5 NVMe or 16 x SATA 6Gb/s<br>4 x MCIO 8i for 8 x Gen5 NVMe<br>1 x MCIO 8i for 2 x Gen4 NVMe<br>1 x M.2 (2280/22110), PCIe Gen4 x4 | **Retail Packaging Content** | 1 x MZ33-AR0, 1 x I/O shield, 1 x Quick start guide,<br>1 x MCIO 8i to 8 x SATA 6Gb/s cable (600mm)<br>Single Box dimensions: 409 x 355 x 78 mm<br>Carton dimensions: 729 x 415 x 432 mm |
| **RAID** | N/A | **Bulk Packaging Content** | 10 x MZ33-AR0, 10 x I/O shields<br>Carton dimensions: 600 x 473 x 517 mm |
| **Expansion Slots** | 4 x PCIe Gen Gen5 x16 slots | | |
| **Security Modules** | 1 x TPM header with SPI interface<br>- Optional TPM2.0 kit: CTM010 | **Reference Numbers** | Retail: 9MZ33AR0MR-000-3*/1*<br>Bulk: 9MZ33AR0NR-000-3*/1* |
| **Rear I/O** | 2 x USB 3.2 Gen1, 1 x VGA, 1 x COM, 2 x RJ45, 1 x MLAN | **Optional parts** | MCIO 8i to 2 x MCIO 4i cable (550mm): 25CF9-550700-A4R |

Learn more at **https://www.GIGABYTE.com/enterprise**

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