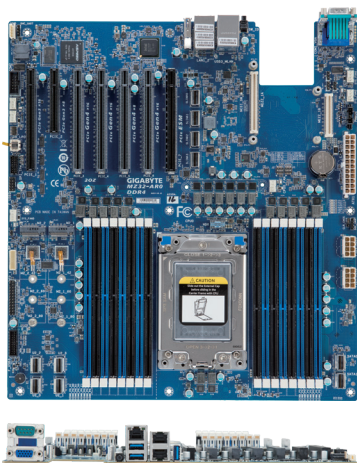


MZ32-AR0

AMD EPYC Single Socket Server Motherboard



Features

- Single AMD EPYC™ 7002 series processor family
- 8-Channel RDIMM/LRDIMM DDR4, 16 x DIMMs
- 2 x 1Gb/s LAN ports (Intel® I350-AM2)
- 1 x Dedicated management port
- 2 x SlimSAS (with 8 x SATA 6Gb/s) ports
- 4 x SlimSAS (with 4 x NVMe) ports
- Ultra-Fast M.2 with PCIe Gen3 x4 interface
- Up to 5 x PCIe Gen4 slots and 2 x PCIe Gen3 slots
- 1 x OCP 2.0 Gen3 x16 mezzanine slot
- Aspeed® AST2500 remote management controller

Specification

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|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions (WxHxD) | E-ATX 305W x 330D mm | Internal I/O | 1 x 24-pin ATX main power connector, 2 x 8-pin ATX 12V power connectors, 10 x SlimSAS connectors, 2 x M.2 slots, 1 x CPU fan headers, 5 x System fan headers, 1 x USB 3.0 header, 1 x USB 2.0 header, 1 x COM_2 header, 1 x TPM header, 1 x Front panel header, 1 x HDD back plane board header, 1 x PMBus connector, 1 x IPMB connector, 1 x Clear CMOS jumper, 1 x BIOS recovery jumper, 1 x Buzzer |
| CPU | AMD EPYC™ 7002 series processor family Single processor, 7nm, Socket SP3 Up to 64-core, 128 threads per processor cTDP up to 240W, Fully support 280W Compatible with AMD EPYC™ 7001 series processor family | Rear I/O | 3 x USB 3.0, 1 x VGA, 1 x COM_1, 2 x RJ45, 1 x MLAN, 1 x ID button with LED |
| Socket | Socket SP3 | TPM | 1 x TPM header with SPI interface Optional TPM2.0 kit: CTM010 |
| Chipset | System on Chip | OS Compatibility | Windows Server 2016 / 2019 RHEL 7.6 (x64) / 8.0 (x64) or later SLES 12 SP4 (x64) / 15 SP1 (x64) or later Ubuntu 16.04.6 LTS (x64) / 18.04.3 LTS / 20.04 LTS (x64) or later VMware ESXi 6.5 EP15 / 6.7 Update3 / 7.0 or later Citrix Hypervisor 8.1.0 or later |
| Memory | 16 x DIMM slots DDR4 memory supported only 8-Channel memory architecture RDIMM modules up to 128GB supported LRDIMM modules up to 128GB supported Memory speed: Up to 3200/ 2933 MHz | Board Management | Aspeed® AST2500 management controller GIGABYTE Management Console (AMI MegaRAC SP-X) |
| LAN | 2 x 1GbE LAN ports (1 x Intel® I350-AM2) 1 x 10/100/1000 management LAN | PSU Connectors | 1 x 24-pin ATX main power connector 2 x 8-pin ATX 12V power connectors |
| Video | Integrated in Aspeed® AST2500 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp | Operating Properties | Operating temperature: 10°C to 40°C Operating humidity: 8-80% (non-condensing) Non-operating temperature: -40°C to 60°C Non-operating humidity: 20%-95% (non-condensing) |
| SATA | 2 x SlimSAS 4i for 8 x SATA ports | Retail Packaging Content | 1 x MZ32-AR0, 1 x I/O shield, 1 x Quick start guide, 2 x SlimSAS for 8 x SATA/III 6Gb/s cables Single Box dimensions: 409 x 355 x 78 mm Carton dimension: 729 x 415 x 432 mm Quantity: 10 x single box with one carton |
| RAID | - | Bulk Packaging Content | 10 x MZ32-AR0, 10 x I/O shields Carton dimensions: 600 x 473 x 495 mm |
| Expansion Slots | Slot_7: 1 x PCIe x16 (Gen4 x16) slot; shared with 4 x NVMe ports Slot_6: 1 x PCIe x16 (Gen4 x16) slot Slot_5: 1 x PCIe x16 (Gen4 x8) slot Slot_4: 1 x PCIe x16 (Gen4 x16) slot Slot_3: 1 x PCIe x16 (Gen4 x16) slot Slot_2: 1 x PCIe x8 (Gen3 x0 or x8) slot Slot_1: 1 x PCIe x16 (Gen3 x16 or x8) slot; shared with slot_2 2 x M.2 slots: - M-key, PCIe Gen3 x4 - Supports NGFF-2242/2260/2280 cards 4 x NVMe ports (Shared with Slot_7 PCIe Gen4 x16 slot): - SlimSAS 4i type, PCIe Gen3 x4 per port | Reference Numbers | Retail: 9MZ32AR0MR-00 Bulk: 9MZ32AR0NR-00 |

* All specifications are subject to change without notice. Please visit our website for the latest information.

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