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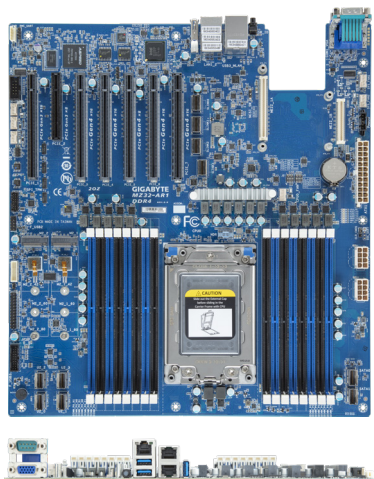
MZ32-AR0

AMD EPYC UP Server Motherboard

Features

- Hardware-level root of trust support
- Single AMD EPYC™ 7003 series processor
- Single processor, 7nm technology
- 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 Gen4 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

Dimensions	E-ATX (W305 x D330 mm)	**Internal I/O**	10 x SlimSAS connectors, 2 x M.2 slots, 1 x CPU fan headers, 5 x System fan headers, 1 x USB 3.2 Gen 1 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 Buzzer, 1 x Clear CMOS jumper, 1 x BIOS recovery jumper
CPU	AMD EPYC™ 7003 series processor Single processor, 7nm, Socket SP3 Up to 64-core, 128 threads per processor cTDP up to 240W, Fully support 280W Compatible with AMD EPYC™ 7002 Series processors		
		OS Compatibility	Windows Server 2016 / 2019 RHEL 8.3 (x64) or later SLES 12 SP5 / 15 SP2 (x64) or later Ubuntu 18.04.5 LTS / 20.04 LTS / 22.04 LTS (x64) or later VMware ESXi 6.7 Update3 P03 / 7.0 Update1 or later Citrix Hypervisor 8.2.0 or later
Chipset	System on Chip		
Memory	8-Channel DDR4 memory, 16 x DIMM slots RDIMM/LRDIMM modules up to 128GB supported 3DS RDIMM/LRDIMM modules up to 256GB 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		
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, NGFF-2242/2260/2280) 4 x NVMe ports (PCIe Gen3 x4 per port, shared with Slot_7)	**Retail Packaging Content**	1 x MZ32-AR1 1 x I/O shield 1 x Quick start guide 2 x SlimSAS for 8 x SATAIII 6Gb/s cables Single Box dimensions: 409 x 355 x 78 mm
		Bulk Packaging Content	10 x MZ32-AR1 10 x I/O shields Carton dimensions: 600 x 473 x 495 mm
TPM	1 x TPM header with SPI (Optional TPM2.0 kit: CTM010)	**Reference Numbers**	Retail: 9MZ32AR1MR-00 PCB Rev. 3.0 Bulk: 9MZ32AR1NR-00 PCB Rev. 3.0
Rear I/O	3 x USB 3.2 Gen1, 1 x VGA, 1 x COM_1, 2 x RJ45, 1 x MLAN		

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