MZ31-AR0

AMD EPYC UP Server Motherboard





Features

- AMD EPYC™ 7003 Series processors
- 8-Channel RDIMM/LRDIMM DDR4, 16 x DIMMs
- 2 x SFP+ 10Gb/s LAN ports (Broadcom® BCM 57810S)
- 1 x dedicated management port
- 4 x SlimSAS (with 16 x SATA 6Gb/s) ports
- Ultra-Fast M.2 with PCIe Gen3 x4 interface
- Up to 4 x PCle Gen3 x16 slots and 3 x PCle Gen3 x8 slots
- Aspeed® AST2500 remote management controller

Specification

Dimensions CPU	E-ATX (305W x 330D mm) AMD EPYC [™] 7003 Series processors Single processor, 7nm, Socket SP3 Up to 64-core, 128 threads per processor TDP up to 225W, cTDP up to 240W Compatible with AMD EPYC [™] 7002 Series processors	Internal I/O	1 x 24-pin ATX main power connector, 2 x 8-pin ATX 12V power connectors, 4 x SlimSAS connectors, 1 x M.2 slot, 2 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, 2 x LAN activity LED, 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
Chipset	System on Chip	Rear I/O	2 x USB 3.0, 2 x USB 2.0, 1 x VGA, 1 x COM_1, 2 x SFP+, 1 x MLAN1 x ID button with LED
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	ТРМ	1 x TPM header with LPC interface (Optional TPM2.0 kit: CTM000)
		OS Compatibility	Windows Server 2016 / 2019 RHEL 8.3 (x64) or later SLES 12 SP5 (x64) / 15 SP2 (x64) or later Ubuntu 18.04.5 LTS (x64) / 20.04 LTS (x64) or later VMware ESXi 6.7 Update3 P03 / 7.0 Update1 or later Citrix Hypervisor 8.2.0 or later
LAN	2 x SFP+ 10Gb/s LAN ports (Broadcom® BCM 57810S) 1 x 10/100/1000 management LAN		
Video	Integrated in Aspeed® AST2500 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp		
		Board Management	Aspeed® AST2500 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
SATA	4 x SlimSAS, total 16 x SATA III 6Gb/s ports	Operation	, , ,
RAID	N/A	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)
Expansion Slots	Slot_7: 1 x PCle x8 (Gen3 x8 bus) slot Slot_6: 1 x PCle x16 (Gen3 x16 bus) slot Slot_5: 1 x PCle x16 (Gen3 x8 bus) slot Slot_4: 1 x PCle x16 (Gen3 x16 bus) slot Slot_3: 1 x PCle x16 (Gen3 x16 bus) slot Slot_2: 1 x PCle x8 (Gen3 x8 bus) slot Slot_1: 1 x PCle x8 (Gen3 x8 bus) slot Slot_1: 1 x PCle x16 (Gen3 x16 bus) slot - x M.2 slot: - M-key, PCle Gen3 x4 - Supports NGFF-2242/2260/2280 cards		
		Retail Packaging Content	1 x MZ31-AR0, 1 x I/O shield, 1 x Quick start guide, 2 x SlimSAS to SATAIII 6Gb/s cables Single Box dimensions: 409 x 355 x 78 mm
		Bulk Packaging Content	10 x MZ31-AR0, 10 x I/O shields Carton dimensions: 600 x 473 x 495 mm
		Reference Numbers	Retail: 9MZ31AR0MR-00 Rev. 3.0 Bulk: 9MZ31AR0NR-00 Rev. 3.0



Learn more about GIGABYTE server solutions, visit www.gigabyte.com/Enterprise

- * All specifications are subject to change without notice. Please visit our website for the latest information.
- * AMD, and the AMD Arrow logo, AMD EPYC and combinations thereof are trademarks of Advanced Micro Devices, Inc.
- * All other brands, logos and names are property of their respective owners.

© 2021 GIGABYTE Technology Co., Ltd. All rights reserved.







