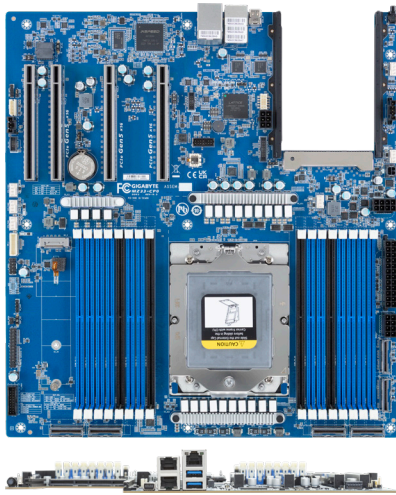# GIGABYTE™

MZ33-CP0
AMD EPYC 9004 UP Server Motherboard

AMD EPYC

Features

- AMD EPYC™ 9004 series processors
- AMD EPYC™ 9004 series processors with AMD 3D V-Cache™
- Single processor, 5nm technology
- 12-Channel RDIMM DDR5, 16 x DIMMs
- 2 x 1Gb/s BASE-T LAN ports
- 1 x Dedicated management port
- 6 x MCIO 8i for Gen5/Gen4 NVMe and SATA ports
- Up to 16 x SATA 6Gb/s devices supported
- 1 x M.2 slot with PCIe Gen3 x4 interface
- 4 x PCIe Gen5/Gen4 x16 expansion slots
- 1 x OCP 3.0 Gen5 x16 slot
- Aspeed® AST2600 remote management controller

Specification

Form Factor	E-ATX (W304.8W x D330.2 mm)	**Rear I/O**	2 x USB 3.2 Gen1, 1 x Mini-DP, 2 x RJ45, 1 x MLAN
CPU	AMD EPYC™ 9004 series processors AMD EPYC™ 9004 series processors with AMD 3D V-Cache™ Single processor, 5nm technology, cTDP up to 400W Up to 128-core, 256 threads per processor 1 x LGA 6096, Socket SP5	**Internal I/O**	6 x MCIO 8i connectors, 1 x TPM header, 1 x CPU fan header, 5 x System fan headers, 1 x USB 3.2 Gen1 header, 1 x USB 2.0 header, 1 x Front panel header, 1 x Backplane 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	**OS Compatibility**	Windows Server 2019 / 2022 RHEL 8.6 / 8.7 / 8.8 / 9.0 / 9.1 / 9.2 (x64) SLES 15 SP4 / 15 SP5 (x64) Ubuntu 20.04.6 / 22.04 / 22.04.1 / 22.04.2 / 22.04.3 LTS (x64) VMware ESXi 7.0 Update 3i / 8.0 / 8.0 Update 1 Citrix Hypervisor 8.2 LTSR CU1
Memory	12-Channel DDR5 memory, 16 x DIMM slots RDIMM modules up to 96GB supported 3DS RDIMM modules up to 256GB supported Memory speed: Up to 4800MHz (1DPC), 3600MHz (2DPC)		
LAN	2 x 1Gb/s BASE-T LAN ports (2 x Intel® I210-AT) NCSI function supported (by switch) 1 x 10/100/1000 management LAN	**Board Management**	Aspeed® AST2600 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
Video	Integrated in Aspeed® AST2600 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp, DDR4 SDRAM	**PSU Connectors**	1 x 24-pin ATX main power connector 2 x 8-pin ATX 12V power connectors 1 x 6-pin ATX 12V power connector
SATA	2 x MCIO 8i for 16 x SATA ports	**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	3 x Gen5 x16 slots 1 x Gen4 x16 slot 1 x OCP 3.0 Gen5 x16 slot 1 x M.2 slot: M-key, PCIe Gen4 x4, supports 2280/22110 cards Total 6 x MCIO 8i connectors: - 4 x MCIO 8i connectors for 8 x Gen5 NVMe - 2 x MCIO 8i connectors for 4 x Gen4 NVMe or 16 x SATA III	**Retail Packaging Content**	1 x MZ33-CP0, 1 x I/O shield, 1 x Quick start guide, 1 x MCIO 8i to 8 x SATA 6Gb/s cable Single Box dimensions: 409 x 355 x 78 mm
		Bulk Packaging Content	10 x MZ33-CP0, 10 x I/O shields Carton dimensions: 600 x 473 x 517 mm
TPM	1 x TPM header with SPI interface Optional TPM2.0 kit: CTM010	**Part Numbers**	Retail: 9MZ33CP0MR-000-10* Bulk: 9MZ33CP0NR-000-10*

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

Designed by

GIGA COMPUTING

Giga Computing   @GIGABYTEServer   GIGABYTEServer   GIGABYTEChannel