Gigabyte MZ33-AR0, 1xSKT LGA 6095, AMD EPYC 9004, SoC, 24xDIMM, SATA, NVMe, 1xM.2, 2x10GbE, IPMI

Kod producenta: MZ33-AR0



Category Server Form Factor E-ATX Dimensions 12" x 13" **CPU** Socket LGA 6096 (Socket SP5) # of CPU sockets 1 Supported CPU's AMD EPYC 9004 Max CPU TDP 400 W Chipset System on Chip DDR5 ECC RDIMM Memory Type Memory Speed 4800 MT/s 3600 MT/s # of DIMM's 24 Max Memory Size 6 TB Integrated GPU ASPEED AST2600 # of PCIe x16 5.0 4 # of USB Ports 2 x USB 3.2 (rear) 2 x USB 3.2 (header) # of SATA Ports 2 # of NVMe ports 1 # of M.2 2280 1 # of Serial Ports 1 x DB9 (COM) # of 10GbE Ports 2 x RJ45 Network Controllers Broadcom BCM57416 Integrated BMC **IPMI Dedicated RJ45** BMC chip ASPEED AST2600 TPM 1 x TPM 2.0 13-pin Header

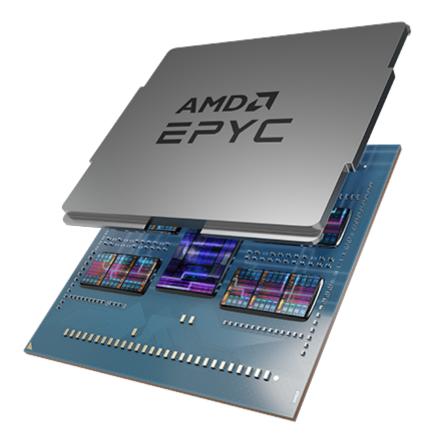
MZ33-AR0

Motherboard - AMD EPYC[™] 9004 - E-ATX UP

- Single AMD EPYC[™] 9004 Series Processors (with AMD 3D V-Cache[™] Technology)
- 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 Gentiopytigetapan2024 sloves v. superstorage.pl | czwartek, 21 listopad 2024 Strona: 1 / 11

Powering the Next Generation of Server Architecture and Energy Efficiency

The path to AMD's 5nm 'Zen 4' architecture was paved with many successful generations of EPYC innovations and chiplet designs, and AMD EPYC 9004 Series processors continue this progression. Adding a host of new features to target a wide range of workloads, the new family of EPYC processors will deliver even better CPU performance and performance per watt, and do so on a platform with 2x the throughput of PCIe 4.0 lanes that also has support for 50% more memory channels. For this new platform, GIGABYTE has products ready to get the most out of EPYC-based systems that support fast PCIe Gen5 accelerators and Gen5 NVMe drives, in addition to support for high performant DDR5 memory.



4th Gen AMD EPYC Processors for SP5 Socket



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Dedicated cozesnauconegeted workloads

Large L3_{cache}

SednatcaPUsnhowengs or more L3 cache for

SP5compatibility

All 900 platform processors are supported



Memory capacity can achieve 6TB per



DIDREBSE and an and higher



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Select GIGABYTE for the AMD EPYC 9004 platform



High Performance

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Compute Density

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Fast & Stable Connectivity

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Modularity

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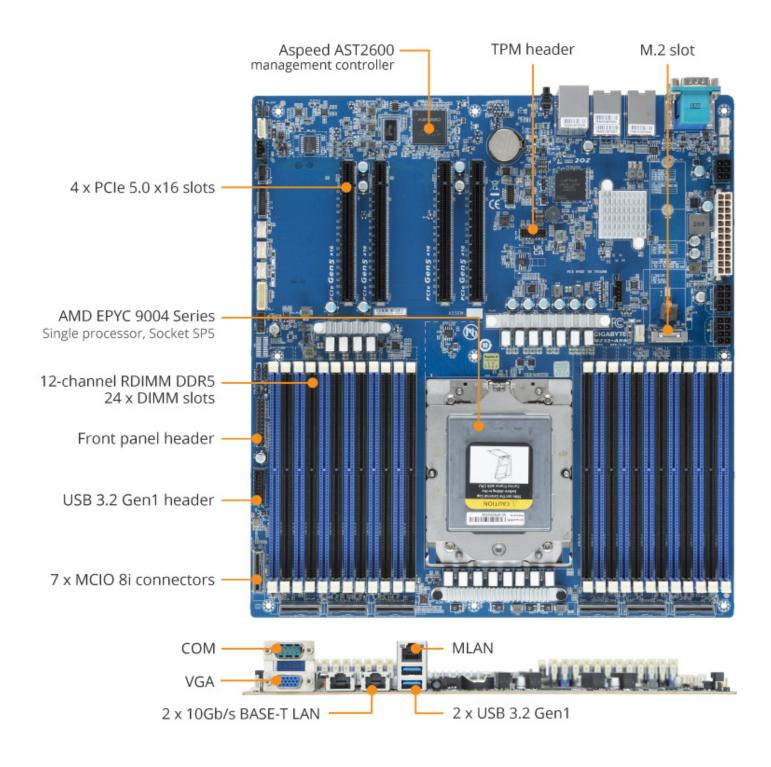
Collaboration

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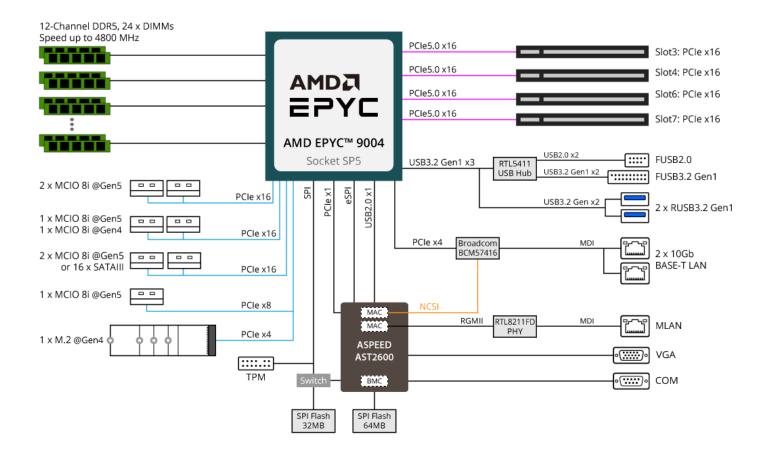
Optimal Price

Seledurined spartification to produce and models allows quotomers to only

MZ33-AR0 Product Overview



MZ33-AR0 Block Diagram



Hardware Security

Optional TPM 2.0 Module

For hardware-based authentication, the passwords, encryption keys, and digital certificates are stored in a TPM module to prevent unwanted users from gaining access to your data. GIGABYTE TPM modules come in either a Serial Peripheral Interface or Low Pin Count bus.



Value-added Management

GIGABYTE offers free-of-charge management applications via a specialized small processor built on the server.

GIGABYTE Management Console

For management and maintenance of a server or a small cluster, users can use the GIGABYTE Management Console, which is pre-installed on each server. Once the servers are running, IT staff can perform real-time health monitoring and management on each server through the browser-based graphical user interface. In addition, the GIGABYTE Management Console also provides:

Support for standard IPMI specifications that allows users to integrate services into a single platform through an open interface

Automatic event recording, which can record system behavior 30 seconds before an event occurs, making it easier to determine subsequent actions

Integrate SAS/SATA/NVMe devices and RAID controller firmware into GIGABYTE Management Console to monitor and control Broadcom® MegaRAID adapters.

MegaRAC SP-X		ITC)	US - English	▼ BIOS O Sync C Refresh & admin -	
13.06.08 Jul 23 2024 08:01:18 UTC • Host Online	Dashboard Control Panel			# Home > Dashboard	
Quick Links 👻	Product Information		A Network Information		
# Dashboard	Product Name	R284-A92-AAL2-GB0	Host Name	AMI10FFE0309E8A	
a Sensor	Product Serial Number	01234567890123456789AB	MAC Address	1	
System Inventory >	Asset Tag	01234567890123456789AB	IPv4 Address	10.0140.00	
🕍 Logs & Reports 🔷	BMC Firmware Build Date	Jul 23 2024	IPv6 Address	:	
Settings	BMC Firmware version	13.06.08			
	BIOS Firmware Build Date	04/22/2024	Ja BMC System Information	In BMC System Information	
Remote Control	BIOS Firmware version	D08	Power-On Hours	1 d 2 hrs	
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GIGABYTE Server Management (GSM)

GSM is a software suite that can manage clusters of servers simultaneously over the internet. GSM can be run on all GIGABYTE servers and has support for Windows and Linux. GSM can be downloaded from GIGABYTE website and complies with IPMI and Redfish standards. GSM includes a complete range of system management functions that includes the following utilities:

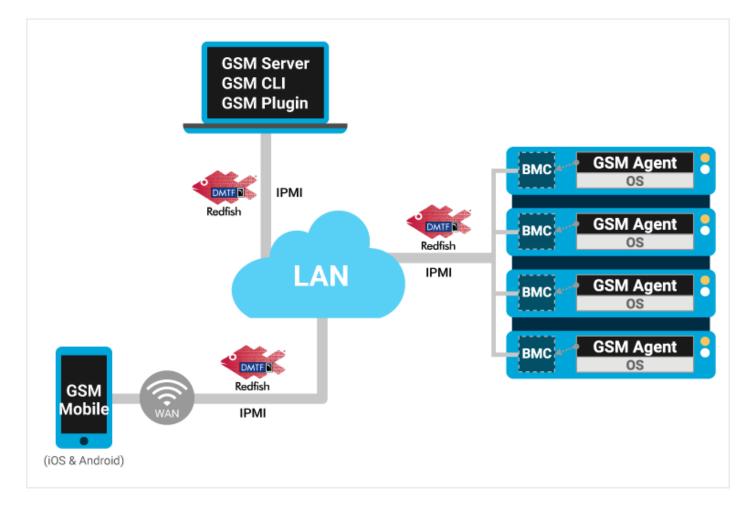
GSM Server: A software program that provides real-time, remote control using a graphical user interface through an administrator's computer or through a server in the cluster. The software allows ease of maintenance for large clusters of servers.

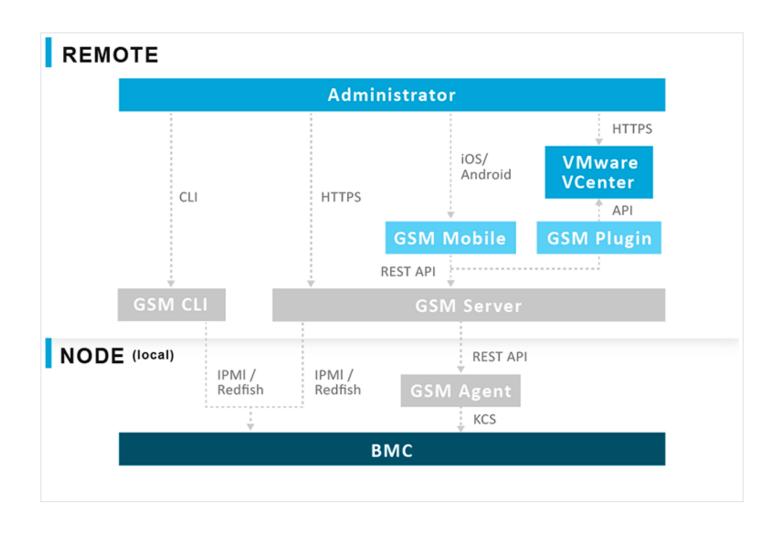
GSM CLI: A command-line interface for monitoring and managing remotely.

GSM Agent: A software program installed on each GIGABYTE server node that retrieves information from each system and devices through the OS, and this software integrates with GSM Server or GSM CLI.

GSM Mobile: A mobile app for both Android and iOS that provides admins with real-time system information.

GSM Plugin: An application program interface that allows users to use VMware vCenter for real-time monitoring and management of server clusters.





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https://www.superstorage.pl/gigabyte-mz33-ar0-1xskt-lga-6095-amd-epyc-9004-soc-24xdimm-sata-nvme-1xm2-2x10gbe-ipmi-p-7683.html