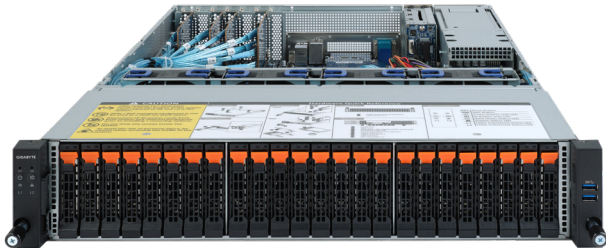


## R272-Z32

Rack Server - 2U UP 24-Bay NVMe



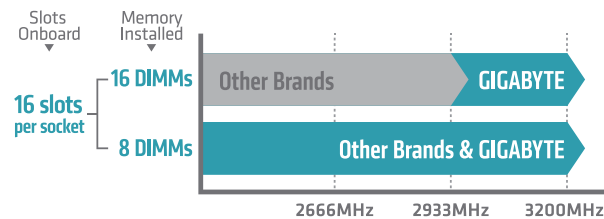
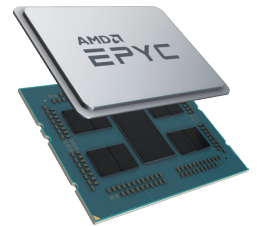
### Features

- 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
- 24 x 2.5" NVMe hot-swap SSD bays in front side
- 2 x 2.5" SATA/SAS hot-swap HDD/SSD bays in rear side
- Ultra-Fast M.2 with PCIe Gen3 x4 interface
- 1 x PCIe Gen4 x8 expansion slot
- Aspeed® AST2500 remote management controller
- 1+1 1200W 80 PLUS Platinum redundant power supply

### AMD EPYC™ 7002 Series Processor (Rome)

The next generation of AMD EPYC has arrived, providing incredible compute, IO and bandwidth capability – designed to meet the huge demand for more compute in big data analytics, HPC and cloud computing.

- ✓ Built on **7nm** advanced process technology, allowing for denser compute capabilities with lower power consumption
- ✓ Up to **64 core** per CPU, built using Zen 2 high performance cores and AMD's innovative chiplet architecture
- ✓ Supporting **PCIe Gen 4.0** with a bandwidth of up to 64GB/s, twice of PCIe Gen 3.0
- ✓ **Embedded security protection** to help defend your CPU, applications, and data



### Get the Memory Performance Edge

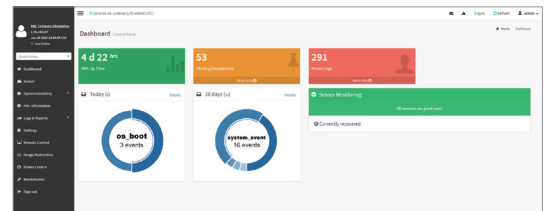
#### 3200Mhz Even at 2 DIMMS Per Channel

On previous AMD server platforms, memory speed has been automatically downgraded by design when a user installed two DIMMs per channel. GIGABYTE has now developed a unique solution to overcome this performance downgrade headache: with our new 2nd Generation AMD EPYC 7002 Series server platforms, maximum memory speed (3200Mhz) is now supported even when using 2 DIMMS per channel\*. GIGABYTE's server platforms give you the performance edge, with more memory capacity at faster speeds than competing solutions!

### GIGABYTE Management Console (AMI MegaRAC SP-X)

This GIGABYTE server product utilizes a AMI MegaRAC SP-X platform for BMC server management, with a feature rich and easy to use browser-based graphical user interface. Notable features include:

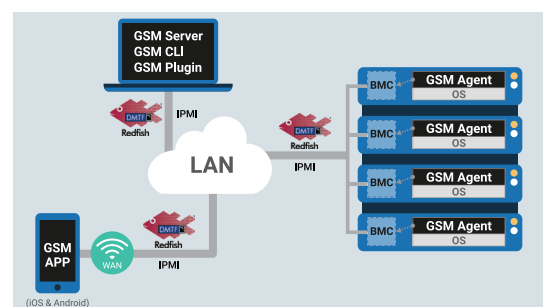
- **RESTful API support** (including the latest DMTF standards of Redfish) allows the administrator to integrate with 3rd party applications for server management
- **HTML5-based iKVM** remote management client included as a standard feature, no additional add-on license required to purchase
- **Detailed FRU information** from SMBIOS
- **Pre-event automatic video recording** feature from 10 to 30 seconds
- **SAS / RAID controller monitoring** feature



### GIGABYTE Server Management (GSM)

GIGABYTE Server Management (GSM) is GIGABYTE's proprietary multiple server remote management software platform, available as a free download from each GIGABYTE server product page. GSM is compatible with either IPMI or Redfish (RESTful API) connection interfaces, and comprises the following sub-programs:

- **GSM Server**
- **GSM CLI**
- **GSM Agent**
- **GSM Mobile**
- **GSM Plugin**



## Specification

<b>Dimensions (WxHxD)</b>	2U 438 x 87.5 x 660 mm	<b>Power Supply</b>	1+1 1200W 80 PLUS Platinum redundant PSUs  AC Input: - 100-240V~/ 12-7A, 50-60Hz DC Input: - 240Vdc/ 6A DC Output: - Max 1000W/ 100-240V~ +12V/ 80.5A +12Vsb/ 3A - Max 1200W/ 200-240V~ or 240Vdc input +12V/ 97A +12Vsb/ 3A
<b>Motherboard</b>	MZ32-AR0	<b>System Management</b>	Aspeed® AST2500 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)  Dashboard JAVA Based Serial Over LAN HTML5 KVM Sensor Monitor (Voltage, RPM, Temperature, CPU Status ...etc.) Sensor Reading History Data FRU Information SEL Log in Linear Storage / Circular Storage Policy Hardware Inventory Fan Profile System Firewall Power Consumption Power Control LDAP / AD / RADIUS Support Backup & Restore Configuration Remote BIOS/BMC/CPLD Update Event Log Filter User Management Media Redirection Settings PAM Order Settings SSL Settings SMTP Settings
<b>CPU</b>	AMD EPYC™ 7002 series processor family Single processors, 7nm Up to 64-core, 128 threads per processor TDP up to 225W, cTDP up to 240W Conditional support 280W  Compatible with AMD EPYC™ 7001 series processor	<b>OS Compatibility</b>	Windows Server 2016 ( X2APIC/256T not supported) Windows Server 2019 Red Hat Enterprise Linux 7.6 ( x64) or later Red Hat Enterprise Linux 8.0 ( x64) or later SUSE Linux Enterprise Server 12 SP4 ( x64) or later SUSE Linux Enterprise Server 15 SP1 ( x64) or later Ubuntu 16.04.6 LTS (x64) or later Ubuntu 18.04.3 LTS (x64) or later VMware ESXi 6.5 EP15 or later VMware ESXi 6.7 Update3 or later Citrix Hypervisor 8.1.0
<b>Socket</b>	Socket SP3	<b>Weight</b>	Net Weight: 17.78 kg / Gross Weight: 24.76 kg
<b>Chipset</b>	System on Chip	<b>System Fans</b>	4 x 80x80x38mm (16,300rpm)
<b>Memory</b>	16 x DIMM slots DDR4 memory supported only 8-Channel memory architecture RDIMM modules up to 64GB supported LRDIMM modules up to 128GB supported Memory speed: Up to 3200*/ 2933 MHz  * Follow BIOS setting and memory QVL list if running 3200 Mhz with 2DPC	<b>Operating</b>	Operating temperature: 10°C to 35°C Operating humidity: 8%-80% (non-condensing) Non-operating temperature: -40°C to 60°C Non-operating humidity: 20%-95% (non-condensing)
<b>LAN</b>	2 x 1GbE LAN ports (1 x Intel® I350-AM2) 1 x 10/100/1000 management LAN	<b>Packaging Content</b>	1 x R272-Z32 system, 1 x CPU heatsink, 1 x Rail kit
<b>Video</b>	Integrated in Aspeed® AST2500 2D Video Graphic Adapter with PCIe bus interface 1920x1200 @60Hz 32bpp	<b>Part Numbers</b>	Barebone package: 6NR272Z32MR-00 - Motherboard: 9MZ32AR0NR-00 - Rail kit: 25HB2-3A0202-K0R - CPU heatsink: 25ST1-15320E-J1R - Back plane board_12-port: 9CBP2005NR-00 - Back plane board_2-port: 9CBP2021NR-00 - PCIe pass through board: 9CEPM080NR-00 - PCIe NVMe Card: 9CNV3024NR-00 - OCP NVMe Card: 9CNVO124NR-00 - Front panel board: 9CFP2001NR-00 - Fan module: 25ST2-883829-D0R - Power supply: 25EP0-212003-D0S - Fan duct for 280W CPU: 25HA8-R27231-S5R (optional)
<b>Storage</b>	Total 26 x 2.5" hot-swappable HDD/SSD bays - Front side: 24 x 2.5" NVMe hot-swappable SSD bays - Rear side: 2 x 2.5" SATA/SAS hot-swappable HDD/SSD bays	<b>Expansion Slots</b>	
<b>Expansion Slots</b>	Total 6 x low profile PCIe Gen4 / Gen3 expansion slots - Slot_6: 1 x PCIe x16 (Gen4 x16) slot; Occupied by CNV3024, 4 x NVMe HBA - Slot_5: 1 x PCIe x16 (Gen4 x8) slot - Slot_4: 1 x PCIe x16 (Gen4 x16) slot; Occupied by CNV3024, 4 x NVMe HBA - Slot_3: 1 x PCIe x16 (Gen4 x16) slot; Occupied by CNV3024, 4 x NVMe HBA - Slot_2: 1 x PCIe x8 (Gen3 x0 or x8) slot; no function - Slot_1: 1 x PCIe x16 (Gen3 x16 or x8) slot; Occupied by CNV3024, 4 x NVMe HBA  1 x OCP 2.0 mezzanine slot with PCIe Gen3 x16 - Occupied by CNVO124, 4 x NVMe HBA  2 x M.2 slot: - M-key, PCIe Gen3 x4 - Supports NGFF-2242/2260/2280 cards	<b>Internal I/O</b>	2 x M.2 slots, 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 Buzzer 1 x BIOS recovery jumper,
<b>Internal I/O</b>	2 x M.2 slots, 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 Buzzer 1 x BIOS recovery jumper,	<b>Front I/O</b>	2 x USB 3.0, 1 x Power button with LED, 1 x ID button with LED, 1 x NMI button, 1 x Reset button, 2 x LAN activity LEDs, 1 x HDD activity LED, 1 x System status LED
<b>Front I/O</b>	2 x USB 3.0, 1 x Power button with LED, 1 x ID button with LED, 1 x NMI button, 1 x Reset button, 2 x LAN activity LEDs, 1 x HDD activity LED, 1 x System status LED	<b>Rear I/O</b>	3 x USB 3.0, 1 x VGA, 1 x COM, 2 x RJ45, 1 x MLAN, 1 x ID button with LED
<b>Rear I/O</b>	3 x USB 3.0, 1 x VGA, 1 x COM, 2 x RJ45, 1 x MLAN, 1 x ID button with LED	<b>Backplane I/O</b>	Front side_CBP2005: 24 x NVMe ports Rear side_CBP2021: 2 x SATA/SAS ports Speed and bandwidth: PCIe Gen3 x4 per port
<b>Backplane I/O</b>	Front side_CBP2005: 24 x NVMe ports Rear side_CBP2021: 2 x SATA/SAS ports Speed and bandwidth: PCIe Gen3 x4 per port	<b>TPM</b>	1 x TPM header with SPI interface Optional TPM2.0 kit: CTM010

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

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