

# R162-ZA1 (Rev. A00)

Rack Server - AMD EPYC™ 7003/7002 -  
1U UP 10-Bay Gen4 NVMe/SATA/SAS



## Key Features

- Hardware-level root of trust support
- Supports GRAID SupremeRAID NVMe/NVMe-oF RAID Card
- Single AMD EPYC™ 7003/7002 Series Processors
- 8-Channel DDR4 RDIMM/LRDIMM, 16 x DIMMs
- 2 x 1 Gb/s LAN ports via Intel® I350-AM2
- 2 x 2.5" Gen4 NVMe/SATA/SAS hot-swap bays
- 2 x 2.5" Gen4 NVMe hot-swap bays
- 6 x 2.5" SATA/SAS hot-swap bays
- 1 x M.2 slot with PCIe Gen4 x4 interface
- 2 x FHHL PCIe Gen4 x16 and x8 slots
- 1 x Internal FHHL PCIe Gen4 x16 slot
- 1 x OCP NIC 3.0 PCIe Gen4 x16 slot
- 1 x OCP 2.0 Gen3 x8 mezzanine slot
- 1+1 800 W 80 PLUS Platinum redundant power supplies

## Specification

|                             |  |                              |   |
|-----------------------------|--|------------------------------|---|
| <b>Dimensions</b>           | 1U (W438 x H43.5 x D730 mm)  | <b>I/O Ports</b>             | <b>Front:</b><br>1 x USB 3.0<br><b>Rear:</b><br>2 x USB 3.0, 1 x VGA, 2 x RJ45, 1 x MLAN  |
| <b>Motherboard</b>          | MZA2-CE0 Rev. 3.0  | <b>Backplane Board</b>       | PCIe Gen4 x4 or SATA 6 Gb/s or SAS 12 Gb/s  |
| <b>CPU</b>                  | AMD EPYC™ 7003 Series Processors<br>AMD EPYC™ 7002 Series Processors<br>Single processor, cTDP up to 240 W   | <b>TPM</b>                   | 1 x TPM header (SPI), Optional TPM 2.0 kit: CTM010  |
| <b>Socket</b>               | 1 x LGA 4094 (Socket SP3)  | <b>Power Supply</b>          | 1+1 800 W 80 PLUS Platinum redundant power supplies<br>AC Input: 100-240 V  |
| <b>Chipset</b>              | System on Chip   | <b>System Management</b>     | ASPEED® AST2500 Baseboard Management Controller<br>GIGABYTE Management Console web interface  |
| <b>Memory</b>               | 8-Channel DDR4 RDIMM/LRDIMM, 16 x DIMMs<br>Up to 3200/2933 MT/s  | <b>System Fans</b>           | 8 x 40x40x28mm  |
| <b>LAN</b>                  | 2 x 1 Gb/s LAN (1 x Intel® I350-AM2), Support NCSI<br>1 x 10/100/1000 Mb/s Management LAN  | <b>Operating Properties</b>  | Operating: 10°C to 35°C, 8% to 80% (non-condensing)<br>Non-operating: -40°C to 60°C, 20% to 95% (non-condensing)  |
| <b>Video</b>                | Integrated in ASPEED® AST2500<br>- 1 x VGA port  | <b>Packaging Content</b>     | 1 x R162-ZA1<br>1 x CPU heatsink<br>1 x 2-Section Rail kit  |
| <b>Storage</b>              | <b>Front hot-swap:</b><br>2 x 2.5" Gen4 NVMe/SATA/SAS <sup>[1]</sup><br>2 x 2.5" Gen4 NVMe<br>6 x 2.5" SATA/SAS <sup>[1]</sup><br><b>Internal M.2:</b><br>1 x M.2 (2280/22110), PCIe Gen4 x4<br><br><sup>[1]</sup> SAS card is required to support SAS drives.                   | <b>Ordering Part Numbers</b> | 6NR162ZA1MR-00-A*   |
| <b>RAID</b>                 | Require RAID add-in cards  | <b>Optional Parts</b>        | - 3-Section Rail kit (Supports CMA): 25HB2-AA6105-KOR<br>- Cable Management Arm: 25HBZ-R18100-KOR<br>- <b>GRAID SupremeRAID Core Software Module License</b><br>a) SupremeRAID License: 25FC1-SR1000-AFS (4-native NVMe RAID) |
| <b>PCIe Expansion Slots</b> | <b>Rear:</b><br>1 x FHHL x16 (Gen4 x16)<br>1 x FHHL x16 (Gen4 x8 or x16), <b>shared with OCP 2.0</b><br><br><b>Internal:</b><br>1 x FHHL x16 (Gen4 x16)<br><br>1 x OCP NIC 3.0 (Gen4 x16), Support NCSI<br>1 x OCP 2.0 mezzanine (Gen3 x0 or x8), <b>shared with a FHHL slot</b> |                              |   |



Learn more at: <https://www.gigabyte.com/Enterprise>

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