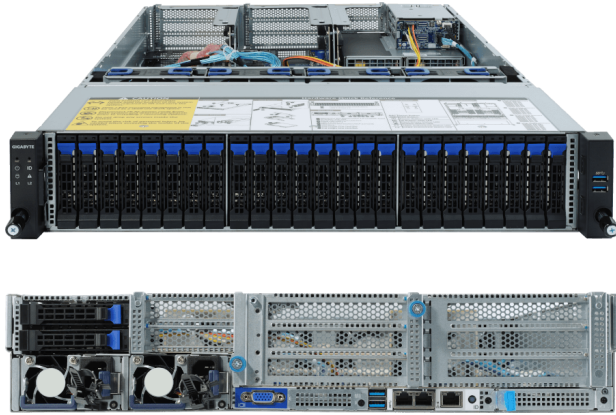


# R282-Z91 (Rev. A00)

Rack Server - AMD EPYC™ 7003/7002 Series Processors -  
2U DP 24+2-Bay SATA/SAS



## Key Features

- Dual AMD EPYC™ 7003/7002 Series processors
- 8-Channel DDR4 RDIMM/LRDIMM per CPU with 32 x DIMMs
- 2 x 1 Gb/s LAN ports via Intel® I350-AM2
- Onboard 12 Gb/s SAS expander
- 24 x 2.5" SATA/SAS hot-swap bays
- 2 x 2.5" SATA/SAS hot-swap bays on the rear side
- 1 x M.2 slot with PCIe Gen3 x4
- 6 x FHHL PCIe Gen4 x16 and x8 slots
- 2 x LP PCIe Gen4 x8 slots
- 1 x OCP NIC 3.0 PCIe Gen4 x16 slot
- 1 x OCP 2.0 PCIe Gen3 x8 mezzanine slot
- 1+1 1600 W 80 PLUS Platinum redundant power supplies

## Applications

Networks Server...

## Specification

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                                                                                                                                         |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dimensions</b>  | 2U (W438 x H87 x D730 mm)                                                                                                                                                                                                                                                                                                                                                                                                    | <b>PCIe Expansion Slots</b>  | 2 x FHHL x16 (Gen4 x16)<br>4 x FHHL x8 (Gen4 x8)<br>2 x LP x8 (Gen4 x8)                                                                 |
| <b>Motherboard</b> | MZ92-FS0 Rev. 3.0                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                                                                                                                                         |
| <b>CPU</b>         | AMD EPYC™ 7003 Series processors<br>AMD EPYC™ 7002 Series processors<br>Dual processors, cTDP up to 280 W                                                                                                                                                                                                                                                                                                                    |                              | 1 x OCP NIC 3.0 (Gen4 x16), Support NCSI<br>1 x OCP 2.0 mezzanine (Gen3 x8), Support NCSI                                               |
| <b>Socket</b>      | 2 x LGA 4094 (Socket SP3)                                                                                                                                                                                                                                                                                                                                                                                                    | <b>I/O Ports</b>             | <b>Front:</b><br>2 x USB 3.0<br><b>Rear:</b><br>2 x USB 3.0, 1 x VGA, 2 x RJ45, 1 x MLAN                                                |
| <b>Chipset</b>     | System on Chip                                                                                                                                                                                                                                                                                                                                                                                                               | <b>TPM</b>                   | 1 x TPM header (SPI), Optional TPM 2.0 kit: CTM010                                                                                      |
| <b>Memory</b>      | 8-Channel DDR4 RDIMM/LRDIMM, 32 x DIMMs<br>Up to 3200/2933 MT/s                                                                                                                                                                                                                                                                                                                                                              | <b>Power Supply</b>          | 1+1 1600 W 80 PLUS Platinum redundant power supplies<br>AC Input: 100-240 V                                                             |
| <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>System Fans</b>           | 4 x 80x80x38mm                                                                                                                          |
| <b>Video</b>       | Integrated in ASPEED® AST2500<br>- 1 x VGA port                                                                                                                                                                                                                                                                                                                                                                              | <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>Storage</b>     | <b>Front hot-swap:</b><br>24 x 2.5" <b>SATA/SAS</b> <sup>[1]</sup> , connected to SAS expander<br><b>Rear hot-swap:</b><br>2 x 2.5" <b>SATA/SAS</b> <sup>[1]</sup> , connected to SAS expander<br><b>Internal M.2:</b><br>1 x M.2 (2242/2260/2280/22110), PCIe Gen3 x4<br><br>Broadcom SAS35x36R expander<br>Bandwidth: SATA 6 Gb/s or SAS 12 Gb/s per port<br><br><sup>[1]</sup> SAS card is required to enable the drives. | <b>Packaging Content</b>     | 1 x R282-Z91<br>2 x CPU heatsinks<br>1 x 2-Section Rail kit                                                                             |
| <b>RAID</b>        | Depends on SAS add-in cards                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Ordering Part Numbers</b> | 6NR282Z91MR-00-A*                                                                                                                       |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Optional Parts</b>        | - 4 x NVMe kit: 6NR282Z9CSR-00-100<br>- 3-Section Rail kit (Supports CMA): 25HB2-AA6105-K0R<br>- Cable Management Arm: 25HBZ-R18100-K0R |



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

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