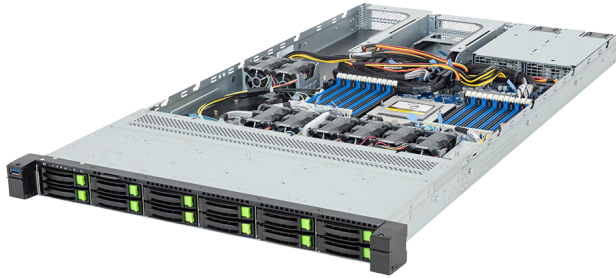


# R163-ZG2-AAJ2

Rack Server - 1U UP 1 x PCIe Gen5 GPU



## Key Features

- Supports 1 x Dual slot Gen5 GPU
- Single AMD EPYC™ 9005/9004 Series Processors
- 12-Channel DDR5 RDIMM, 24 x DIMMs
- Dual ROM Architecture
- 12 x 2.5" Gen5 NVMe/SATA/SAS-4 hot-swap bays
- 2 x M.2 slots with PCIe Gen3 x2 interface
- 1 x FHFL PCIe Gen5 x16 slot for GPUs
- 1 x FHFL PCIe Gen5 x16 slot
- 1 x FHHL PCIe Gen5 x16 slot
- 1 x OCP NIC 3.0 PCIe Gen5 x16 slot
- Dual 2000W 80 PLUS Titanium redundant power supply

## Applications

AI Platform, AI Inference Server, Visual Computing, Networks Server, Servers for Hybrid/Private Cloud...

## Specification

|                  |                                                                                                                                                                                                     |                       |                                                                                                                                                                                                                 |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions       | 1U (W438 x H43.5 x D815 mm)                                                                                                                                                                         | PCIe Expansion Slots  | 1 x FHFL PCIe Gen5 x16, for GPUs<br>1 x FHFL PCIe Gen5 x16 <sup>[1]</sup><br>1 x FHHL PCIe Gen5 x16<br>1 x OCP NIC 3.0 PCIe Gen5 x16, Support NCSI<br><sup>[1]</sup> Blocked when a Dual slot GPU is installed. |
| Motherboard      | MZG3-GU0                                                                                                                                                                                            | I/O Ports             | <b>Front:</b><br>1 x USB 3.2 Gen1<br><b>Rear:</b><br>2 x USB 3.2 Gen1, 1 x Mini-DP, 1 x MLAN                                                                                                                    |
| CPU              | AMD EPYC™ 9005 Series Processors<br>AMD EPYC™ 9004 Series Processors<br>Single processor, cTDP up to 400W<br>- At 25°C ambient, cTDP up to 500W                                                     | Backplane Board       | PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s                                                                                                                                                                      |
| OS Compatibility | <a href="#">OS Support List</a>                                                                                                                                                                     | TPM                   | 1 x TPM header (SPI), Optional TPM2.0 kit: CTM012                                                                                                                                                               |
| Socket           | 1 x LGA 6096 (Socket SP5)                                                                                                                                                                           | Power Supply          | Dual 2000W 80 PLUS Titanium redundant power supply<br>AC Input: 100-240V                                                                                                                                        |
| Chipset          | System on Chip                                                                                                                                                                                      | System Management     | ASPEED® AST2600 Baseboard Management Controller<br>GIGABYTE Management Console web interface                                                                                                                    |
| Memory           | 12-Channel DDR5 RDIMM, 24 x DIMMs<br>[EPYC 9005] Up to 5200 MT/s (1DPC),<br>Up to 4400 MT/s (1R 2DPC), 4000 MT/s (2R 2DPC)<br>[EPYC 9004] Up to 4800 MT/s (1DPC), 3600 MT/s (2DPC)                  | System Fans           | 2 x 40x40x56mm (32,000rpm)<br>6 x 40x40x56mm (38,000rpm)                                                                                                                                                        |
| LAN              | 1 x 10/100/1000 Mbps Management LAN                                                                                                                                                                 | Operating Properties  | Operating: 10°C~30°C, 8%~80% (non-condensing)<br>Non-operating: -40°C~60°C, 20%~95% (non-condensing)                                                                                                            |
| Video            | Integrated in ASPEED® AST2600<br>- 1 x Mini-DP                                                                                                                                                      | Packaging Content     | 1 x R163-ZG2-AAJ2<br>1 x CPU heatsink<br>1 x Mini-DP to D-Sub cable<br>1 x GPU power cable (12VHPWR, 400mm)<br>1 x 2-Section Rail kit                                                                           |
| Storage          | <b>Front hot-swap:</b><br>12 x 2.5" Gen5 NVMe/SATA/SAS-4 <sup>[1]</sup><br><b>Internal M.2:</b><br>2 x M.2 (2280/22110), PCIe Gen3 x2<br><sup>[1]</sup> SAS card is required to support SAS drives. | Ordering Part Numbers | 6NR163ZG2DR000ACJ2*                                                                                                                                                                                             |
| RAID             | Require RAID add-in cards                                                                                                                                                                           | Optional Parts        | - 3-Section Rail kit (Supports CMA): 25HB2-A56121-K0R<br>- Cable Management Arm: 25HB1-R18300-K0R                                                                                                               |



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

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