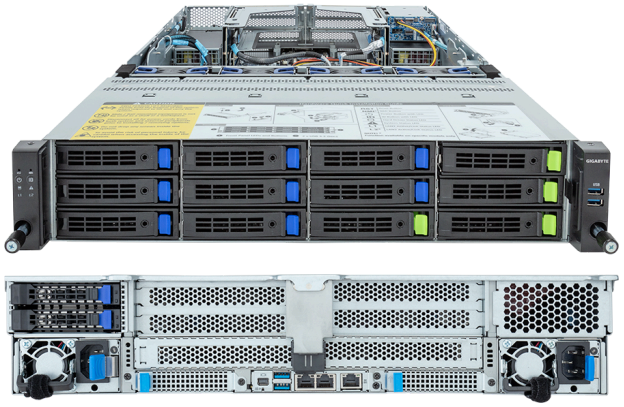
GIGABYTE™

R283-Z91-AAV1 (Rev. 1.x)

Rack Server - AMD EPYC™ 9004 Server Processors -
2U, DP, 12+2-Bay Gen4 NVMe/SATA/SAS with expander, Titanium



Key Features

- Dual AMD EPYC™ 9004 Server processors
- 12-Channel DDR5 RDIMM per CPU with 24 x DIMMs
- 2 x 1 Gb/s LAN ports via Intel® I350-AM2
- 4 x 3.5"/2.5" Gen4 NVMe/SATA/SAS hot-swap bays
- 8 x 3.5"/2.5" SATA/SAS hot-swap bays
- 2 x 2.5" SATA/SAS hot-swap bays on the rear side
- Onboard 12 Gb/s SAS expander
- 3 x M.2 slots with PCIe Gen3 x4 and x2
- 4 x FHHL PCIe x16 slots with Gen5 x16 lanes
- 2 x FHHL PCIe x16 slots with Gen5 x8 lanes
- 2 x OCP NIC 3.0 PCIe Gen5 x16 slots
- Dual 1600 W 80 PLUS Titanium redundant power supplies

Applications

Networks Server...

Specification

Dimensions	2U (W438 x H87.5 x D815 mm)
Motherboard	MZ93-FS0
CPU	AMD EPYC™ 9005 Server processors AMD EPYC™ 9004 Server processors Dual processors, cTDP up to 300 W - EPYC 9654 cTDP up to 400 W *cTDP supported up to 400 W under limited thermal conditions.
OS Compatibility	OS Support List
Socket	2 x LGA 6096 (Socket SP5)
Chipset	System on Chip
Memory	12-Channel DDR5 RDIMM, 24 x DIMMs Up to 4800 MT/s
LAN	2 x 1 Gb/s LAN (1 x Intel® I350-AM2), Support NCSI 1 x 10/100/1000 Mb/s Management LAN
Video	Integrated in ASPEED® AST2600 - 1 x Mini-DP
Storage	**Front hot-swap:** 4 x 3.5"/2.5" Gen4 NVMe**/SATA/SAS** [1] 8 x 3.5"/2.5" **SATA/SAS** [1] **Rear hot-swap:** 2 x 2.5" **SATA/SAS** [1] **Internal M.2:** 2 x M.2 (2280/22110), PCIe Gen3 x4 1 x M.2 (2280/22110), PCIe Gen3 x2 [1] Storage card is required to enable SATA and SAS drives. - Broadcom SAS35x24R expander - Bandwidth: SATA 6 Gb/s or SAS 12 Gb/s per port *Please select verified enterprise SATA devices.

RAID	Require RAID add-in cards
PCIe Expansion Slots	4 x FHHL x16 (Gen5 x16) 2 x FHHL x16 (Gen5 x8) 2 x OCP NIC 3.0 (Gen5 x16), Support NCSI
I/O Ports	**Front:** 2 x USB 3.2 Gen1 **Rear:** 2 x USB 3.2 Gen1, 1 x Mini-DP, 2 x RJ45, 1 x MLAN
Backplane Board	**Front:** PCIe Gen4 x4 or SATA 6 Gb/s or SAS 12 Gb/s **Rear:** SATA 6 Gb/s or SAS 12 Gb/s
TPM	1 x TPM header (SPI), Optional TPM 2.0 kit: CTM010
Power Supply	Dual 1600 W 80 PLUS Titanium redundant power supplies AC Input: 100-240 V
System Management	ASPEED® AST2600 Baseboard Management Controller GIGABYTE Management Console web interface
System Fans	4 x 80x80x38mm
Operating Properties	Operating: 10°C to 35°C, 8% to 80% (non-condensing) Non-operating: -40°C to 60°C, 20% to 95% (non-condensing)
Packaging Content	1 x R283-Z91-AAV1 2 x CPU heatsinks 1 x Mini-DP to D-Sub cable 1 x 2-Section Rail kit
Ordering Part Numbers	6NR283Z91DR000ABV1*
Optional Parts	- 3-Section Rail kit (Supports CMA): 25HB2-A56121-K0R - Cable Management Arm: 25HB1-R18300-K0R

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

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Last updated: Nov 17, 2026

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