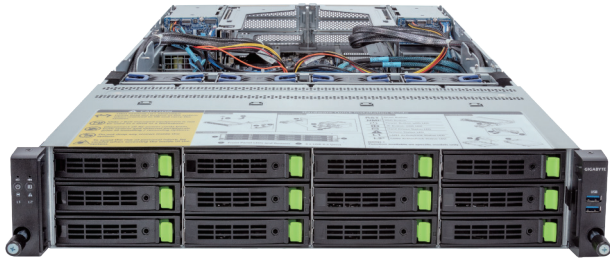# GIGABYTE™

R283-Z90-AAV1

Rack Server - 2U DP 12+4-Bay NVMe/SATA

AMD EPYC

Key Features

- Dual AMD EPYC™ 9004 Series Processors
- 12-Channel DDR5 RDIMM, 24 x DIMMs
- Dual ROM Architecture
- 2 x 1Gb/s LAN ports via Intel® I350-AM2
- 12 x 3.5"/2.5" Gen4 NVMe/SATA/SAS hot-swap bays
- 4 x 2.5" SATA/SAS hot-swap bays on the rear side
- 3 x M.2 slots with PCIe Gen3 x4 and x2 interface
- 3 x FHHL PCIe Gen5 x16 slots
- 1 x OCP NIC 3.0 PCIe Gen5 x16 slot
- Compatible with SupremeRAID™ by Graid Technology
- Dual 1600W 80 PLUS Titanium redundant power supply

Application

Networking

Specification

Dimensions	2U (W438 x H87 x D815 mm)	**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	
Motherboard	MZ93-FS0	**Backplane Board**	Front - CBP20C5: PCIe Gen4 x4 or SATA 6Gb/s or SAS 12Gb/s Rear - CBP2022: SATA 6Gb/s or SAS 12Gb/s	
CPU	AMD EPYC™ 9005/9004 Series Processors Dual processor, cTDP up to 300W - EPYC 9654 cTDP up to 400W			
		Security Modules	1 x TPM header with SPI interface (Optional TPM2.0 kit: CTM010)	
Sock	2 x LGA 6096 (Socket SP5)	**Power Supply**	Dual 1600W 80 PLUS Titanium redundant power supply AC Input: 100-240V	
Chipset	System on Chip			
Memory	24 x DIMM slots 12-Channel DDR5 RDIMM Up to 4800 MT/s	**System Management**	ASPEED® AST2600 Baseboard Management Controller GIGABYTE Management Console web interface	
		OS Support	Windows Server, Red Hat Enterprise Linux server, Ubuntu, SUSE Linux Enterprise server, VMware ESXi, Citrix Hypervisor	
LAN	2 x 1Gb/s LAN (1 x Intel® I350-AM2) - Supports NCSI function 1 x 10/100/1000 Mbps Management LAN			
		System Fans	4 x 80x80x38mm (18,300rpm)	
Video	Integrated in ASPEED® AST2600 - 1 x Mini-DP	**Operating Properties**	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)	
Storage	Front hot-swap: 12 x 3.5"/2.5" Gen4 NVMe/SATA/SAS Rear hot-swap: 4 x 2.5" SATA/SAS *SAS card is required to support SAS drives. Internal M.2: 2 x M.2 (2280/22110), PCIe Gen3 x4 　　　　　　　1 x M.2 (2280/22110), PCIe Gen3 x2			
		Packaging Content	1 x R283-Z90-AAV1, 2 x CPU heatsinks, 1 x Mini-DP to D-Sub cable, 1 x 2-Section Rail kit Packaging Dimensions: 1077 x 679 x 300 mm	
RAID	Require RAID add-in cards Optional compatible RAID cards: NVMe RAID Cards with SupremeRAID™ by Graid Technology RAID Card models: SR-1000-ED12 Support RAID 0/1/5/6/10	**Part Numbers**	Barebone package (EPYC 9005/9004): 6NR283Z90DR000ABV1* Barebone package (EPYC 9004): 6NR283Z90DR000AAV1* Optional parts: - RAID card (SR-1000-ED12): 25FC1-SRBUN3-AFS - 3-Section Rail kit (Supports CMA): 25HB2-A56121-K0R - Cable Management Arm: 25HB1-R18300-K0R - RMA packaging: 6NR283Z90SR-RMA-A100	
Expansion Slots	3 x FHHL PCIe Gen5 x16 slots 1 x OCP NIC 3.0 PCIe Gen5 x16 slot			

Learn more at **https://www.GIGABYTE.com/enterprise**

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