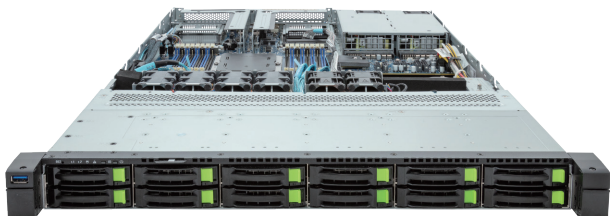# GIGABYTE™

R163-P32-AAH1

Rack Server - 1U UP 12-Bay NVMe/SATA

AMPEREOne®

Features

- Single AmpereOne® Family Processors
- 8-Channel DDR5 RDIMM, 16 x DIMMs
- Dual ROM Architecture
- 1 x 1Gb/s LAN port via Intel® I210-AT
- 12 x 2.5" Gen5 NVMe/SATA/SAS-4 hot-swap bays
- 1 x M.2 slot with PCIe Gen5 x4 interface
- 2 x FHHL PCIe Gen5 x16 slots
- 1 x OCP NIC 3.0 PCIe Gen5 x16 slot
- 2 x 1300W 80 PLUS Titanium redundant power supply

Application

Networking, Hybrid/Private Cloud Server...

Specification

Dimensions	1U (W438 x H43.5 x D710 mm)	**I/O Ports**	Front: 1 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1, 1 x RJ45, 1 x Mini-DP, 1 x MLAN
Motherboard	MP33-DC0	**Backplane Board**	Speed and bandwidth: PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s
CPU	AmpereOne® Family Processors Up to 192 custom cores Single processor, TDP up to 400W	**Security Modules**	1 x TPM header with SPI interface - Optional TPM2.0 kit: CTM010
Sock	1 x LGA 5964	**Power Supply**	2 x 1300W 80 PLUS Titanium redundant power supply AC Input: 100-240V
Chipset	System on Chip		
Memory	16 x DIMM slots 8-Channel DDR5 memory architecture RDIMM: Up to 5200 MT/s, 4400 MT/s (2R 2DPC)	**System Management**	ASPEED® AST2600 Baseboard Management Controller GIGABYTE Management Console web interface
LAN	1 x 1Gb/s LAN port (Intel® I210-AT) - Supports NCSI function 1 x 10/100/1000 Mbps management LAN	**System Fans**	2 x 40x40x28mm (25,000rpm) 4 x 40x40x56mm (32,000rpm)
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 2.5" Gen5 NVMe/SATA/SAS-4* *SAS card is required to support SAS drives. Internal M.2: 1 x M.2 (2280/22110), PCIe Gen5 x4	**Packaging Content**	1 x R163-P32-AAH1, 1 x CPU heatsink, 1 x Carrier, 1 x Mini-DP to D-Sub cable, 1 x 2-Section Rail kit Packaging Dimensions: 977 x 588 x 236 mm
RAID	Require RAID add-in cards	**Part Numbers**	Barebone package: 6NR163P32DR000ABH1* Optional parts: - 3-Section Rail kit (Supports CMA): 25HB2-A56120-K0R - Cable Management Arm: 25HBZ-R18100-K0R
Expansion Slots	2 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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