# R272-P30

**ARM Server - 2U UP 8-Bay Rack Server**

## Features
- Hardware-level root of trust support
- Single socket Ampere® Altra® Processor
- 8-Channel RDIMM/LRDIMM DDR4, 16 x DIMMs
- 2 x 1Gb/s LAN ports (Intel® I350-AM2)
- 1 x Dedicated management port
- 8 x 2.5" SATA/SAS hot-swappable HDD/SSD bays
- 2 x Ultra-Fast M.2 with PCIe Gen4 x4 interface
- 6 x low profile PCIe Gen4 expansion slots
- Aspeed® AST2500 management controller
- 800W 80 PLUS Platinum redundant power supply

## Specification

### Dimensions
- 2U (W438 x H87.5 x D660 mm)

### Motherboard
- MP32-AR1

### CPU
- Ampere® Altra® Processor
  - Single processor, 7nm technology, LGA4926 socket
  - Up to 64-core per processor

### Chipset
- System on Chip

### Memory
- 8-Channel DDR4 memory, 16 x DIMM slots
  - RDIMM/LRDIMM modules up to 256GB supported
  - Up to 4TB of memory capacity supported per processor
  - Memory speed: Up to 3200 MHz
  - NOTE: Only supports configurations with 1, 2, 4, 6, 8, 12, or 16 DIMMs

### LAN
- 2 x 1GbE LAN ports (1 x Intel® I350-AM2)
- 1 x 10/100/1000 management LAN

### Video
- Integrated in Aspeed® AST2500

### Storage
- 8 x 2.5" SATA/SAS hot-swappable HDD/SSD bays from CRAO338 SAS RAID Card

### SAS
- Supported

### RAID
- RAID 0/ 1/ 1E/ 10

### Expansion Slots
- 2 x PCIe x16 slots (4.0 x16), Low-profile
  - 1 x PCIe x8 slot (4.0 x8), Low-profile
- 2 x M.2 slots (4.0 x4), supports 2242/2260/2280/22110 cards

### Front I/O
- 2 x USB 3.0

### Rear I/O
- 3 x USB 3.0, 1 x VGA, 1 x COM, 2 x RJ45, 1 x M-LAN

### Backplane I/O
- Backplane P/N: 9CBP2005NR-00
  - Speed and bandwidth: SAS 12Gb/s, SATA 6Gb/s

### TPM
- 1 x TPM header with SPI interface
  - Optional TPM2.0 kit: CBTM010

### Power Supply
- Dual 800W 80 PLUS Platinum redundant power supply
  - AC Input: 100-240V

### System Management
- Aspeed® AST2500 management controller

### OS Compatibility
- RHEL 8.3 / 8.5 (ARM64)
- CentOS 8.3-2011 / 8.4-2105 / 8.5-2111 (ARM64)
- SLES 15 SP2 / 15 SP3 (ARM64)
- Ubuntu 18.04.5 LTS / 20.04.1 LTS (ARM64)
- Fedora Server 33-1.2 / 35-1.2 (ARM64)
- FreeBSD 14.0-CURRENT (ARM64)
- OracleLinux R8 U2 / R8 U5 (ARM64)
- Debian 10.9 (Buster) / 11.1 (ARM64)

### System Fans
- 4 x 80x80x38mm (16,300rpm)

### 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)

### Packaging
- 1 x R272-P30 system
- 1 x CPU heatsink
- 1 x Rail kit

### Reference Numbers
- Barebone package: 6NR272P30MR-00
  - Motherboard: MP32AR1NR-00
  - Rail kit: 25HB2-3A0202-K0R
  - CPU heatsink: 25ST1-353109-T1R
  - OCP type SAS RAID Card: 9CRAO338NR-00
  - Power supply: 25EP0-208004-L0S

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Learn more about GIGABYTE server solutions, visit [www.gigabyte.com/Enterprise](http://www.gigabyte.com/Enterprise)

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