

# R282-P91

ARM Server - 2U DP 24+4-Bay



AMPERE®



## Features

- Dual Ampere® Altra® Max Processors
- 8-Channel RDIMM/LRDIMM DDR4, 32 x DIMMs
- Dual ROM Architecture supported
- 2 x 1Gb/s LAN ports (Intel® I350-AM2)
- 1 x Dedicated management port
- 24 x 2.5" Gen4 NVMe hot-swap SSD bays in front side
- 4 x 2.5" SATA hot-swap HDD/SSD bays in rear side
- 1 x Ultra-Fast M.2 with PCIe Gen4 x4 interface
- 4 x full-height PCIe Gen4 x16 expansion slots
- 1600W 80 PLUS Platinum redundant power supply

## Specification

<b>Dimensions</b>	2U (W438 x H87 x D730 mm)	<b>Backplane I/O</b>	Front side_CBP2007: 24 x Gen4 U.2 ports Rear side_CBP2022: 2 x SATA ports
<b>Motherboard</b>	MP92-FS0	<b>TPM</b>	1 x TPM header with SPI interface Optional TPM2.0 kit: CTM010
<b>CPU</b>	Ampere® Altra® Max Processor Dual processors, 7nm technology, LGA4926 sockets Up to 128-core per processor, TDP 250W	<b>Power Supply</b>	Dual 1600W 80 PLUS Platinum redundant power supply AC Input: 100-240V
<b>Chipset</b>	System on Chip	<b>System Management</b>	Aspeed® AST2600 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
<b>Memory</b>	8-Channel DDR4 memory, 32 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	<b>OS Compatibility</b>	RHEL 8.3 / 8.5 (aarch64) or later SLES 15 SP2 / 15 SP3 (aarch64) or later Ubuntu 18.04.5 LTS / 20.04.1 LTS / 22.04 LTS (aarch64) or later Fedora Server 33-1.2 / 35-1.2 (aarch64) or later OracleLinux R8 U2 / R8 U5 Debian 10.9 (Buster) / 11.1
<b>LAN</b>	2 x 1GbE LAN ports (Intel® I350-AM2) - NCSI function supported 1 x 10/100/1000 management LAN	<b>System Fans</b>	4 x 80x80x38mm (16,300rpm)
<b>Video</b>	Integrated in Aspeed® AST2600 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp, DDR4 SDRAM	<b>Operating Properties</b>	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)
<b>Storage</b>	Front side: 24 x 2.5" Gen4 NVMe hot-swappable bays Rear side: 4 x 2.5" SATA hot-swappable bays	<b>Packaging Content</b>	1 x R282-P91 system, 2 x CPU heatsinks, 1 x Rail kit
<b>SAS</b>	N/A	<b>Reference Numbers</b>	Barebone package: 6NR282P91DR-00 - Motherboard: 9MP92FS0NR-00 - Rail kit: 25HB2-3A0206-K0R - CPU heatsink: 25ST1-323207-A0R - Power supply module: 25EP0-216008-LOS
<b>Expansion Slots</b>	4 x PCIe 4.0 x16 FHHL slots 1 x M.2 slot (PCIe 4.0 x4), supports 2242/2260/2280/22110 cards		
<b>Front I/O</b>	2 x USB 3.2 Gen1		
<b>Rear I/O</b>	2 x USB 3.2 Gen1, 1 x mini-DP, 2 x RJ45, 1 x MLAN		



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

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