

# R182-P91

ARM Server - 1U DP 12-Bay NVMe



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
- 12 x 2.5" NVMe hot-swappable SSD bays
- 1 x Ultra-Fast M.2 with PCIe Gen4 x4 interface
- 2 x PCIe Gen4 x16 expansion slots
- 2 x OCP 3.0 Gen4 x16 mezzanine slots
- 1300W 80 PLUS Platinum redundant power supply

## Specification

<b>Dimensions</b>	1U (W438 x H43.5 x D730 mm)	<b>Backplane I/O</b>	Backplane P/N: 9CBP10C0NR-00 Speed and bandwidth: PCIe Gen4 x4 per port
<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 1300W 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>	8 x 40x40x56mm (29,700rpm)
<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>	12 x 2.5" Gen4 NVMe hot-swappable bays - 6 x 2.5" SATA devices supported	<b>Packaging Content</b>	1 x R182-P91 system 2 x CPU heatsinks 1 x Rail kit
<b>SAS</b>	N/A	<b>Reference Numbers</b>	Barebone package: 6NR182P91DR-00 - Motherboard: 9MP92FS0NR-00 - Rail kit: 25HB2-3A0206-K0R - CPU heatsink: 25ST1-45320B-A3R - Back plane board: 9CBP10C0NR-00 - Front panel board_CFP1030: 9CFP1030NR-00 - Power supply module: 25EP0-213002-F3S
<b>RAID</b>	N/A		
<b>Expansion Slots</b>	2 x PCIe 4.0 x16 FHHL slots 2 x OCP 3.0 mezzanine slots (PCIe 4.0 x16) 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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