GIGABYTE™

R152-P32

ARM Server - 1U UP 10-Bay Rack Server

AMPERE®

Features

- Hardware-level root of trust support
- Single socket Ampere® Altra® Max or Altra® Processor
- 8-Channel RDIMM/LRDIMM DDR4, 16 x DIMMs
- 2 x 1Gb/s LAN ports (Intel® I350-AM2)
- 1 x Dedicated management port
- 2 x 2.5" SATA hot-swappable HDD/SSD bays
- 8 x 2.5" NVMe hot-swappable HDD/SSD bays
- 2 x Ultra-Fast M.2 with PCIe Gen4 x4 interface
- Aspeed® AST2500 management controller
- Dual 1100W 80 PLUS Platinum redundant power supplies

Specification

Dimensions	1U (W438 x H43.5 x D660 mm)
Motherboard	MP32-AR1
CPU	Ampere® Altra® Max or Altra® Processors Single processor, 7nm technology, LGA4926 socket Up to 128-core per processor, TDP 250W
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 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp, DDR4 SDRAM
Storage	2 x 2.5" SATA hot-swappable HDD/SSD bays from CSTO180 (ASM1164) SATA HBA - SATA device supported only 8 x 2.5" NVMe hot-swappable HDD/SSD bays
SAS	N/A
RAID	N/A
Expansion Slots	1 x PCIe x16 slot (4.0 x16), occupied by CNV3124 1 x OCP 2.0 mezzanine slot, occupied by CSTO180 SATA HBA 2 x M.2 slots (4.0 x4), supports 2242/2260/2280/22110 cards
Front I/O	1 x USB 3.0
Rear I/O	3 x USB 3.0, 1 x VGA, 1 x COM, 2 x RJ45, 1 x MLAN

Backplane I/O	Backplane P/N: 9CBP10A3NR-00 Speed and bandwidth:PCIe Gen3 x4, SATA 6Gb/s
TPM	1 x TPM header with SPI interface Optional TPM2.0 kit: CTM010
Power Supply	Dual 1100W 80 PLUS Platinum redundant power supplies AC Input: 100-240V
System Management	Aspeed® AST2500 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
OS Compatibility	RHEL 8.3 / 8.5 (AArch64) CentOS 8.3-2011 / 8.4.2105 / 8.5.2111 (AArch64) SLES 15 SP2 / 15 SP3 (AArch64) Ubuntu 18.04.5 LTS / 20.04.1 LTS (AArch64) Fedora Server 33-1.2 / 35-1.2 (AArch64) OracleLinux R8 U2 / R8 U5 Debian 10.9 (Buster) / 11.1
System Fans	5 x 40x40x56mm (23'000rpm)
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 Content	1 x R152-P32 system 1 x CPU heatsink 1 x Rail kit
Reference Numbers	Barebone package: 6NR152P32MR-00 - Motherboard: 9MP32AR1NR-00 - Rail kit: 25HB2-3A0202-K0R - CPU heatsink: 25ST1-2534Z0-C1R - OCP type SATA HBA Card: 9CSTO180NR-00 - PCIe to NVMe HBA: 9CNV3124NR-00 - Power supply module: 25EP0-201102-F3S

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