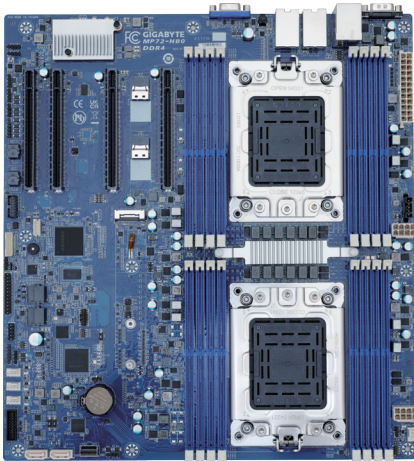# GIGABYTE™

MP72-HB0

Arm-based E-ATX Motherboard

AMPERE®

Features

- Dual Ampere® Altra® or Altra® Max Processors
- 8-Channel RDIMM/LRDIMM DDR4, 16 x DIMMs
- Dual ROM Architecture supported
- 2 x 10Gb/s BASE-T LAN ports
- 1 x Dedicated management port
- 2 x 7-pin SATA 6Gb/s ports
- 2 x Slimline ports for NVMe PCIe Gen4 x4
- 1 x Slimline port for SATA 6Gb/s
- 1 x Ultra-Fast M.2 with PCIe Gen4 x4 interface
- 4 x PCIe Gen4 x16 expansion slots

Specification

Dimensions	E-ATX (305W x 330D mm)	**Internal I/O**	2 x SlimSAS connectors, 1 x SlimSAS vertical connector, 2 x 7-pin SATA connectors, 1 x M.2 slot, 1 x HDD back plane board header,4 x System fan headers, 1 x USB 3.2 Gen1 header, 1 x USB 2.0 Gen1 header, 1 x TPM header, 1 x Front panel header, 1 x PMBus connector, 1 x IPMB connector, 1 x Clear CMOS jumper
CPU	Ampere® Altra® Max or Altra® Processor Dual processors, 7nm technology Up to 128-core per processor		
Socket	2 x LGA 4926 sockets	**TPM**	1 x TPM header with SPI interface Optional TPM2.0 kit: CTM010
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 DIMMs (1DPC)	**OS Compatibility**	RHEL 8.3 / 8.5 (ARM64) SLES 15 SP2 / 15 SP3 (ARM64) Ubuntu 18.04.5 LTS / 20.04.1 LTS / 22.04 LTS (ARM64) Fedora Server 33-1.2 / 35-1.2 (ARM64) OracleLinux R8 U2 / R8 U5 (ARM64) Debian 10.9 (Buster) / 11.1 (ARM64)
LAN	2 x 10Gb/s BASE-T LAN ports (Broadcom® BCM57416) 1 x 10/100/1000 management LAN	**Board Management**	Aspeed® AST2600 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
Video	Integrated in Aspeed® AST2600 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp, DDR4 SDRAM	**PSU Connectors**	1 x 24-pin ATX main power connector 2 x 8-pin ATX 12V power connectors
SATA	2 x 7-pin SATA 6Gb/s ports 1 x SlimSAS with 4 x SATA 6Gb/s port	**Operating Properties**	Operating temperature: 10°C to 40°C Operating humidity: 8-80% (non-condensing) Non-operating temperature: -40°C to 60°C Non-operating humidity: 20%-95% (non-condensing)
SAS	N/A		
RAID	N/A	**Retail Packaging Content**	N/A
Expansion Slots	3 x PCIe x16 (Gen4 x16) slots 1 x PCIe x16 (Gen4 x8) slot 2 x NVMe (Gen4 x4) ports: SlimSAS 4i type 1 x M.2 (Gen4 x4) slot: supports NGFF-22110/2280 cards	**Bulk Packaging Content**	10 x MP72-HB0, 10 x I/O shields Carton dimensions: 600 x 473 x 495 mm
Rear I/O	2 x USB 3.2 Gen1, 1 x VGA, 1 x Debug port, 2 x RJ45, 1 x MLAN, 1 x ID button with LED	**Reference Numbers**	Bulk: 9MP72HB0NR-00 - Fan-sink: 12SF2-01A101-00R (in option) - I/O shield: 12AIO-MZ72H0-00R

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