G242-P36
ARM Server - 2U UP 2-GPU HPC Server

Features

- Hardware-level root of trust support
- Up to 4 x NVIDIA® A100 PCIe Gen4 GPU cards
- Up to 2 x NVIDIA® BlueField-2 DPUs
- 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
- 4 x Gen4 NVMe hot-swappable HDD/SSD bays
- 2 x Ultra-Fast M.2 with PCIe Gen4 x4 interface
- 4 x PCIe Gen4 low profile expansion slots in rear side
- 2 x 80 PLUS Platinum 1600W (240V) power supply

Specification

Dimensions 2U (W438 x H87.5 x D820 mm)

Motherboard MP32-AR2

CPU Ampere® Altra® Max or Altra® Processor
- Single processor, 7nm technology, LGA4926 socket
- Up to 128-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
- 2D Video Graphic Adapter with PCIe bus interface
- 1920x1200@60Hz 32bpp, DDR4 SDRAM

Storage 4 x 3.5" Gen4 NVMe hot-swappable bays
- 2.5" Gen4 NVMe SSD supported only

SAS N/A

RAID N/A

Expansion Slots
- 4 x PCIe 4.0 x16 slots, optional NVIDIA A100 GPU
- 2 x PCIe 4.0 x16 slots, optional NVIDIA BlueField-2 DPU
- 2 x PCIe 4.0 x8 slots, low-profile
- 2 x M.2 slots (4.0 x4), supports 2242/2260/2280/22110 cards

Front I/O 1 x USB 3.2 Gen1

Rear I/O 3 x USB 3.2 Gen1, 1 x VGA, 1 x Debug port, 2 x RJ45, 1 x MLAN

Backplane I/O Backplane P/N: 9CBP1047NR-00
- Speed and bandwidth: Gen4 NVMe

TPM 1 x TPM header with SPI interface
- Optional TPM2.0 kit: CTM010

Power Supply Dual 1600W 80 PLUS Platinum power supply
- AC Input: 100-240V

System Management
- Aspeed® AST2500 management controller
- GIGABYTE Management Console (AMI MegaRAC SP-X)

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)
- OracleLinux R8 U2 / R8 US (ARM64)
- Debian 10.9 (Buster) / 11.1 (ARM64)

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 G242-P36 system
- 1 x CPU heatsink
- 1 x Rail kit

Reference Numbers
- Barebone with rail kit: 6NG242P36MR-00
- - Motherboard: 9MP32AR2NR-00
- - Rail kit: 25HB2-3A0202-K0R
- - CPU heatsink: 25ST1-2534Z0-C1R
- - Back plane board, 4-port: 9CBP1047NR-00
- - PCIe Riser Card_2-port NVMe: 9CNV3132NR-00
- - Power supply: 25EP0-216008-L0S

Learn more about GIGABYTE server solutions, visit www.gigabyte.com/Enterprise

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