

G242-P35

ARM Server - 2U UP 4-GPU HPC Server



AMPERE®



Features

- Hardware-level root of trust support
- Up to 4 x NVIDIA® A100 PCIe Gen4 GPU cards
- 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 x16 expansion slots for GPU cards (Internal)
- 2 x PCIe Gen4 x8 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) | Backplane I/O | Backplane P/N: 9CPB1047NR-00 Speed and bandwidth: Gen4 NVMe |
| Motherboard | MP32-AR2 | TPM | 1 x TPM header with SPI interface Optional TPM2.0 kit: CTM010 |
| CPU | Ampere® Altra® Max or Altra® Processor Single processor, 7nm technology, LGA4926 socket Up to 128-core per processor | Power Supply | Dual 1600W 80 PLUS Platinum power supply AC Input: 100-240V |
| Chipset | System on Chip | System Management | Aspeed® AST2500 management controller GIGABYTE Management Console (AMI MegaRAC SP-X) |
| 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 | 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 1GbE LAN ports (1 x Intel® I350-AM2) 1 x 10/100/1000 management LAN | System Fans | 5 x 80x80x38mm (16,300rpm) |
| Video | Integrated in Aspeed® AST2500 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp, DDR4 SDRAM | 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) |
| Storage | 4 x 3.5" Gen4 NVMe hot-swappable bays - 2.5" Gen4 NVMe SSD supported only | Packaging Content | 1 x G242-P35 system 1 x CPU heatsink 1 x Rail kit |
| SAS | N/A | Reference Numbers | Barebone with rail kit: 6NG242P35MR-00 - Motherboard: 9MP32AR2NR-00 - Rail kit: 25HB2-3A0202-K0R - CPU heatsink: 25ST1-2534Z0-C1R - PCIe Riser Card_4-port GPU: 9CRSG02FNR-00 - PCIe Riser Card_2-port NVMe: 9CNV3132NR-00 - Power supply: 25EP0-216008-L0S |
| RAID | N/A | | |
| Expansion Slots | 4 x PCIe x16 slots (4.0 x16) for GPU cards 2 x PCIe x16 slots (4.0 x8), 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 | | |



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

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