E252-P30
ARM Server - 2U UP 6-Bay Edge Server

Features

- Hardware-level root of trust support
- Single socket Ampere® Altra® Processor
- 8-Channel RDIMM/LRDIMM DDR4, 16 x DIMMs
- 2 x 1Gb/s LAN ports (Intel® I350-AM2)
- 1 x Dedicated management port
- 6 x 2.5” SATA/SAS hot-swappable HDD/SSD bays
- 2 x Ultra-Fast M.2 with PCIe Gen4 x4 interface
- 6 x low profile PCIe Gen4 expansion slots
- Aspeed® AST2500 management controller
- 800W 80 PLUS Platinum redundant power supply

Specification

- Dimensions: 2U (W439 x H86 x D449 mm)
- Motherboard: MP32-AR1
- CPU: Ampere® Altra® Processor
  - Single processor, 7nm technology, LGA4926 socket
  - Up to 64-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: 6 x 2.5” SATA/SAS hot-swappable HDD/SSD bays from CRAO338 SAS RAID Card
- SAS: Supported
- RAID: RAID 0/ 1/ 1E/ 10
- Expansion Slots: 2 x PCIe x16 slots (4.0 x16), Low-profile
  - 3 x PCIe x16 slots (4.0 x8), Low-profile
  - 1 x PCIe x8 slot (4.0 x8), Low-profile
  - 2 x M.2 slots (4.0 x4), supports 2242/2260/2280/22110 cards
- Front I/O: 4 x USB 3.0, 1 x VGA, 1 x COM, 2 x RJ45, 1 x MLAN
- Rear I/O: N/A
- Backplane I/O: Speed and bandwidth: SAS 12Gb/s, SATA 6Gb/s
- TPM: 1 x TPM header with SPI interface
  - Optional TPM2.0 kit: CTM010
- Power Supply: Dual 800W 80 PLUS Platinum redundant 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)
  - CentOS 8.3-2011 / 8.4-2105 / 8.5-2111 (ARM64)
  - SLES 15 SP2 / 15 SP3 (ARM64)
  - Ubuntu 18.04.5 LTS / 20.04.1 LTS (ARM64)
  - FreeBSD 14.0-CURRENT (ARM64)
  - OracleLinux R8 U2 / R8 U5 (ARM64)
  - Debian 10.9 (Buster) / 11.1 (ARM64)
- System Fans: 4 x 80x80x38mm, 2-ball
- 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
  - 1 x E252-P30 system
  - 1 x CPU heatsink
  - 1 x Rail kit (in option)
- Reference Numbers
  - Barebone package: 6NE252P30MR-00
  - Motherboard: 7MP32AR1NR-00
  - CPU heatsink: 25ST1-353109-T1R
  - OCP type SAS RAID Card: 9CRAO338SNR-00

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

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