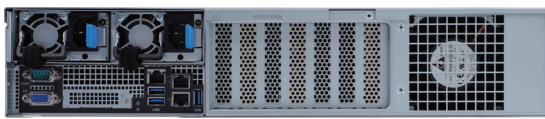


G242-P31

ARM Server - 2U UP 4-GPU HPC Server



AMPERE®

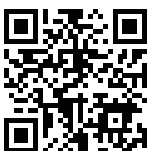


Features

- Hardware-level root of trust support
- Supports up to 4 x PCIe Gen4 double slot GPU cards
- 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
- 4 x 3.5" SATA/SAS hot-swappable HDD/SSD bays
- 2 x Ultra-Fast M.2 with PCIe Gen4 x4 interface
- 3 x PCIe Gen4 x8 low profile expansion slots in rear side
- Aspeed® AST2500 management controller
- 2 x 80 PLUS Platinum 1600W (240V) power supply

Specification

Dimensions	2U (W438 x H87.5 x D660 mm)	Backplane I/O	Backplane P/N: 9CBPG041NR-00 Speed and bandwidth: SAS 12Gb/s, SATA 6Gb/s
Motherboard	MP32-AR2	TPM	1 x TPM header with SPI interface Optional TPM2.0 kit: CTM010
CPU	Ampere® Altra® Processor Single processor, 7nm technology, LGA4926 socket Up to 80-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 (ARM64) CentOS 8.3-2011 (ARM64) SLES 15 SP2 (ARM64) Ubuntu 18.04.5-server / 20.04.1-legacy-server (ARM64) Fedora Server 33-1.2 (ARM64) FreeBSD 13.0 current (ARM64) OracleLinux R8 U2 (ARM64) Debian 10.9 (Buster) (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"/2.5" SATA/SAS hot-swappable HDD/SSD bay from CRA3338 SAS RAID Card	Packaging Content	1 x G242-P31 system 1 x CPU heatsink 1 x Rail kit
SAS	Supported	Reference Numbers	Barebone with rail kit: 6NG242P31MR-00 - Motherboard: 9MP32AR2NR-00 - Rail kit: 25HB2-3A0202-K0R - CPU heatsink: 25ST1-2534Z0-C1R - PCIe type SAS RAID Card: 9CRA3338NR-00 - Power supply: 25EP0-216008-L0S
RAID	RAID 0/ 1/ 1E/ 10		
Expansion Slots	4 x PCIe x16 slots (4.0 x16) for GPU cards 2 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	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		



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

* All specifications are subject to change without notice. Please visit our website for the latest information.

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