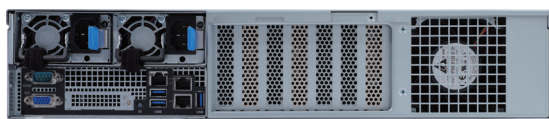


## G242-P31

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

<b>Dimensions</b>	2U (W438 x H87.5 x D660 mm)	<b>Backplane I/O</b>	Backplane P/N: 9CBPG041NR-00 Speed and bandwidth: SAS 12Gb/s, SATA 6Gb/s
<b>Motherboard</b>	MP32-AR2	<b>TPM</b>	1 x TPM header with SPI interface Optional TPM2.0 kit: CTM010
<b>CPU</b>	Ampere® Altra® Processor Single processor, 7nm technology, LGA4926 socket Up to 80-core per processor	<b>Power Supply</b>	Dual 1600W 80 PLUS Platinum power supply AC Input: 100-240V
<b>Chipset</b>	System on Chip	<b>System Management</b>	Aspeed® AST2500 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
<b>Memory</b>	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	<b>OS Compatibility</b>	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) Fedora Server 33-1.2 / 35-1.2 (ARM64) FreeBSD 14.0-CURRENT (ARM64) OracleLinux R8 U2 / R8 U5 (ARM64) Debian 10.9 (Buster) / 11.1 (ARM64)
<b>LAN</b>	2 x 1GbE LAN ports (1 x Intel® I350-AM2) 1 x 10/100/1000 management LAN	<b>System Fans</b>	5 x 80x80x38mm (16,300rpm)
<b>Video</b>	Integrated in Aspeed® AST2500 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp, DDR4 SDRAM	<b>Operating Properties</b>	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)
<b>Storage</b>	4 x 3.5"/2.5" SATA/SAS hot-swappable HDD/SSD bay from CRA3338 SAS RAID Card	<b>Packaging Content</b>	1 x G242-P31 system 1 x CPU heatsink 1 x Rail kit
<b>SAS</b>	Supported	<b>Reference Numbers</b>	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
<b>RAID</b>	RAID 0/ 1/ 1E/ 10		
<b>Expansion Slots</b>	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		
<b>Front I/O</b>	1 x USB 3.0		
<b>Rear I/O</b>	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](http://www.gigabyte.com/Enterprise)

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

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