

## G492-PD0

ARM HPC Server - 4U DP SXM4 A100 8-GPU



### Features

- Supports NVIDIA HGX™ A100 with 8 x SXM4 GPU
- Supports NVIDIA® NVLink® and NVSwitch™ technology
- Up to 600GB/s GPU to GPU interconnection
- Single socket Ampere® Altra® Processor
- 8-Channel RDIMM/LRDIMM DDR4, 16 x DIMMs
- 2 x 1Gb/s LAN ports
- 1 x dedicated management port
- 6 x 2.5" Gen4 U.2 NVMe hot-swap HDD/SSD bays
- 4 x Ultra-Fast M.2 with PCIe Gen4 x4 interface
- 10 x Low profile Gen4 x16 expansion slots
- 3+1 3000W redundant 80 PLUS Platinum power supplies
- Hardware-level root of trust support

### Specification

<b>Dimensions</b>	4U (W448 x H175.2 x D900 mm)	<b>Backplane I/O</b>	6 x 2.5" NVMe ports Speed and bandwidth: PCIe Gen4 x4
<b>Motherboard</b>	MPA2-G40	<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 Up to 128-core per processor	<b>Power Supply</b>	3+1 3000W 80 PLUS Platinum redundant power supply AC Input: 115-240V
<b>Socket</b>	1 x LGA4926	<b>System Management</b>	Aspeed® AST2500 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
<b>Chipset</b>	System on Chip	<b>OS Compatibility</b>	Ubuntu 20.04.1 LTS ( aarch64 ), kernel version 5.8.045
<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	<b>System Fans</b>	11 x 80x80x80mm (17,000rpm) 6 x 40x40x56mm (23,000rpm) 4 x 40x40x28mm (25,000rpm)
<b>LAN</b>	2 x 1GbE LAN ports (1 x Intel I350-AM2) 1 x 10/100/1000 Mbps management LAN	<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>Video</b>	Integrated in Aspeed® AST2500 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp, DDR4 SDRAM	<b>Packaging Content</b>	1 x G492-PD0 1 x CPU fan-sink 1 x Rail kit
<b>Storage</b>	6 x 2.5" Gen4 U.2 NVMe hot-swap HDD/SSD bays 4 x M.2 slots (PCIe Gen4 x4)	<b>Reference Numbers</b>	Barebone with rail kit: 6NG492PD0MR-00 - Motherboard: 9MPA2G40NR-00 - Rail kit: 25HB2-A96101-K0R - CPU heatsink: 25ST1-45320B-A3R - Power supply: 25EP0-230003-D0S
<b>Expansion Slots</b>	8 x SXM4 sockets for NVIDIA HGX A100 8-GPU 80GB module 10 x Low-profile PCIe Gen4 x16 expansion slots		
<b>Front I/O</b>	2 x USB 3.0, 1 x VGA, 2 x RJ45, 1 x MLAN		
<b>Rear I/O</b>	-		



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