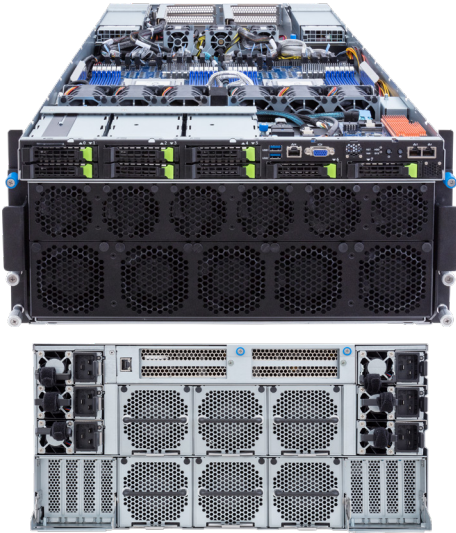# GIGABYTE™

G593-ZD2-AAX1

HPC/AI Server - 5U DP HGX H100 8-GPU

NVIDIA® · AMD EPYC

Features

- Supports NVIDIA HGX™ H100 with 8 x SXM5 GPUs
- Supports NVIDIA® NVLink® and NVSwitch™ technology
- Up to 900GB/s GPU to GPU interconnection
- AMD EPYC™ 9004 Series processors
- Dual processor, 5nm technology
- 12-Channel RDIMM DDR5 per processor, 24 x DIMMs
- Dual ROM Architecture supported
- 2 x 10Gb/s BASE-T LAN ports
- 1 x dedicated management port
- 2 x M.2 slots with PCIe Gen3 x4 and x1 interface
- 8 x 2.5" Gen5 NVMe hot-swappable bays
- 4 x FHHL PCIe Gen5 x16 slots
- 8 x LP PCIe Gen5 x16 slots
- 4+2 3000W (240V) 80 PLUS Titanium redundant power supplies

Specification

Dimensions	5U (W447 x H222.25 x D945 mm)	**Backplane I/O**	PCIe Gen5 x4
Motherboard	MZB3-G43	**TPM**	1 x TPM header with SPI interface (Optional TPM2.0 kit: CTM010)
CPU	AMD EPYC™ 9004 Series processors AMD EPYC™ 9004 Series processors with AMD 3D V-Cache™ Dual processor, 5nm technology cTDP up to 300W at ambient 35°C 2 x LGA 6096 Socket SP5	**Power Supply**	4+2 3000W 80 PLUS Titanium redundant power supply AC Input: 115-240V
Chipset	System on Chip	**System Management**	Aspeed® AST2600 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
Memory	24 x DIMM slots 12-Channel DDR5 memory, up to 4800 MHz RDIMM modules up to 96GB supported 3DS RDIMM modules up to 256GB supported	**OS Compatibility**	Windows Server 2019 / 2022 RHEL 8.6 / 8.7 / 8.8 / 9.0 / 9.1 / 9.2 (x64) SLES 15 SP4 / 15 SP3 SP5 (x64) Ubuntu 20.04.6 / 22.04 / 22.04.1 / 22.04.2 / 22.04.3 LTS (x64) VMware ESXi 7.0 Update 3i / 8.0 / 8.0 Update 1 Citrix Hypervisor 8.2 LTSR CU1
LAN	2 x 10Gb/s BASE-T LAN ports (Intel® X710-AT2) - Supported NCSI 1 x 10/100/1000 management LAN	**System Fans**	Front: 5 x 80x80x80mm (17,200rpm), 6 x 60x60x76mm (21,700rpm) Rear: 6 x 80x80x80mm (17,000rpm), 4 x 40x40x56mm (29,700rpm) Internal: 4 x 40x40x28mm (25,000rpm), 4 x 60x60x56mm (24,000rpm)
Video	Integrated in Aspeed AST2600 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	8 x 2.5" Gen5 NVMe hot-swappable bays	**Packaging Content**	1 x G593-ZD2, 2 x CPU heatsinks, 1 x Rail kit
Expansion Slots	Supports NVIDIA HGX™ H100 with 8 x SXM5 GPUs 8 x PCIe Gen5 x16 low-profile slots 4 x PCIe Gen5 x16 FHHL slots 1 x M.2 slot: M-key, PCIe Gen3 x1, supports 2280/22110 cards 1 x M.2 slot: M-key, PCIe Gen3 x4, supports 2280/22110 cards	**Reference Numbers**	System with NVIDIA module: 6NG593ZD2DR000AAX1* - L-shape Rail kit: 25HB2-A96102-K0R - CPU heatsink: 25ST1-44320Z-C1R - Power supply: 25EP0-23000J-D0S - C19 power cord 125V/15A (US): 25CP1-018000-Q0R (optional) - C19 power cord 250V/16A (EU): 25CP3-01830H-Q0R (optional)
Front I/O	2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN (default port)		
Rear I/O	1 x MLAN		

Learn more about GIGABYTE server, visit **https://www.gigacomputing.com**

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