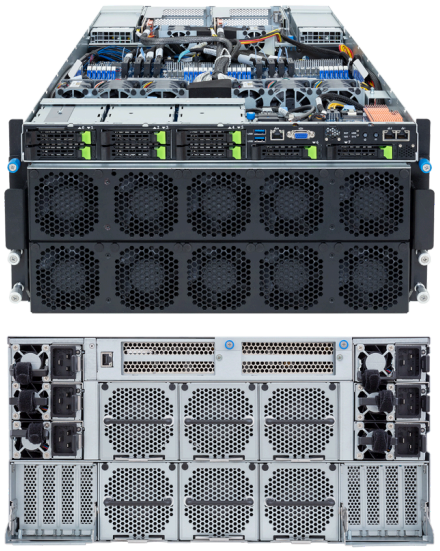
GIGABYTE™

G593-ZX1-AAX1 (Rev. 3.x)

HPC/AI Server - AMD EPYC™ 9005/9004 Server Processors - 5U, DP, AMD Instinct™ MI300X 8-GPU



Key Features

- 8 x AMD Instinct™ MI300X OAM GPUs
- Dual AMD EPYC™ 9005/9004 Server processors
- 12-Channel DDR5 RDIMM per CPU with 24 x DIMMs
- 2 x 10 Gb/s LAN ports via Intel® X710-AT2
- 2 x M.2 slots with PCIe Gen3 x4 and x1
- 8 x 2.5" Gen5 NVMe/SATA/SAS-4 hot-swap bays
- 4 x FHHL PCIe x16 slots with Gen5 x16 lanes
- 8 x LP PCIe x16 slots with Gen5 x16 lanes
- 4+2 3000 W 80 PLUS Titanium redundant power supplies

Applications

AI Platform, AI Training Server, AI Inference Server, High-Performance Computing Server...

Specification

Dimensions	5U (W447 x H219.7 x D945 mm)
Motherboard	MZB3-G43
CPU	AMD EPYC™ 9005 Server processors AMD EPYC™ 9004 Server processors Dual processors, cTDP up to 400 W - At 25°C ambient, cTDP up to 500 W
OS Compatibility	OS Support List
Socket	2 x LGA 6096 (Socket SP5)
Chipset	System on Chip
Memory	12-Channel DDR5 RDIMM, 24 x DIMMs [EPYC 9005] Up to 6400 MT/s [EPYC 9004] Up to 4800 MT/s
LAN	**Front:** 2 x 10 Gb/s LAN (1 x Intel® X710-AT2), Support NCSI 1 x 10/100/1000 Mb/s Management LAN **Rear:** 1 x 10/100/1000 Mb/s Management LAN
Video	Integrated in ASPEED® AST2600 - 1 x VGA port
Storage	**Front hot-swap:** 8 x 2.5" Gen5 NVMe/**SATA/SAS-4** [1] **Internal M.2:** 1 x M.2 (2280/22110), PCIe Gen3 x4 1 x M.2 (2280/22110), PCIe Gen3 x1 [1] Storage card is required to support SATA and SAS drives.
RAID	Require RAID add-in cards
Modular GPU	8 x AMD Instinct™ MI300X OAM GPUs
PCIe Expansion Slots	4 x FHHL x16 (Gen5 x16) 8 x LP x16 (Gen5 x16)
I/O Ports	**Front:** 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN **Rear:** 1 x MLAN
Backplane Board	PCIe Gen5 x4 or SATA 6 Gb/s or SAS-4 24 Gb/s
TPM	1 x TPM header (SPI), Optional TPM 2.0 kit: CTM010
Power Supply	4+2 3000 W 80 PLUS Titanium redundant power supplies AC Input: 100-240 V *The system power supply requires C19 power cord.
System Management	ASPEED® AST2600 Baseboard Management Controller GIGABYTE Management Console web interface
System Fans	Motherboard: 2 x 40x40x56mm 4 x 60x60x56mm PCIe slots: 4 x 40x40x28mm 2 x 40x40x56mm GPU tray: 16 x 80x80x80mm
Operating Properties	Operating: 10°C to 35°C, 8% to 80% (non-condensing) Non-operating: -40°C to 60°C, 20% to 95% (non-condensing)
Packaging Content	1 x G593-ZX1-AAX1 2 x CPU heatsinks 1 x L-shape Rail kit
Ordering Part Numbers	6NG593ZX1DR000ACX1*

Learn more at: https://www.gigabyte.com/Enterprise

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