

# G593-ZX1-LAX1

HPC/AI Server - 5U DP AMD Instinct™ MI300X 8-GPU DLC



## Key Features

- Liquid-cooled 8 x AMD Instinct™ MI300X OAM GPUs
- CPU+GPU direct liquid cooling solution with leak detection
- Dual AMD EPYC™ 9005/9004 Series Processors
- 12-Channel DDR5 RDIMM, 24 x DIMMs
- Dual ROM Architecture
- 2 x 10Gb/s LAN ports via Intel® X710-AT2
- 2 x M.2 slots with PCIe Gen3 x4 and x1 interface
- 8 x 2.5" Gen5 NVMe/SATA/SAS-4 hot-swap bays
- 4 x FHHL PCIe Gen5 x16 slots
- 8 x LP PCIe Gen5 x16 slots
- 4+2 3000W 80 PLUS Titanium redundant power supplies

## Applications

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

## Specification

Dimensions	5U (447 x 219.7 x 945 mm)	Modular GPU	Liquid-cooled 8 x AMD Instinct™ MI300X OAM GPUs
Motherboard	MZB3-G43	PCIe Expansion Slots	4 x FHHL PCIe Gen5 x16 8 x LP PCIe Gen5 x16
CPU	AMD EPYC™ 9005 Series Processors AMD EPYC™ 9004 Series Processors Dual processor, cTDP up to 500W	I/O Ports	<b>Front:</b> 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN (default) <b>Rear:</b> 1 x MLAN
OS Compatibility	<a href="#">OS Support List</a>	Backplane Board	PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s
Socket	2 x LGA 6096 (Socket SP5)	TPM	1 x TPM header (SPI), Optional TPM2.0 kit: CTM010
Chipset	System on Chip	Power Supply	4+2 3000W 80 PLUS Titanium redundant power supplies AC Input: 115-240V *The system power supply requires C19 power cord.
Memory	12-Channel DDR5 RDIMM, 24 x DIMMs [EPYC 9005] Up to 6400 MT/s [EPYC 9004] Up to 4800 MT/s	System Management	ASPEED® AST2600 Baseboard Management Controller GIGABYTE Management Console web interface
LAN	<b>Front:</b> 2 x 10Gb/s LAN (1 x Intel® X710-AT2), Support NCSI 1 x 10/100/1000 Mbps Management LAN <b>Rear:</b> 1 x 10/100/1000 Mbps Management LAN	System Fans	Motherboard: 2 x 40x40x56mm (32,000rpm) 3 x 60x60x56mm (24,000rpm) PCIe slots: 4 x 40x40x28mm (25,000rpm) 2 x 40x40x56mm (32,000rpm) GPU tray: 4 x 80x80x80mm (17,000rpm)
Video	Integrated in ASPEED® AST2600 - 1 x VGA port	Operating Properties	Operating: 10°C to 30°C, 8% to 80% (non-condensing) Non-operating: -40°C to 60°C, 20% to 95% (non-condensing)
Storage	<b>Front hot-swap:</b> 8 x 2.5" Gen5 NVMe/SATA/SAS-4 <sup>[1]</sup> <b>Internal M.2:</b> 1 x M.2 (2280/22110), PCIe Gen3 x4 1 x M.2 (2280/22110), PCIe Gen3 x1 <sup>[1]</sup> Storage card is required to support SATA and SAS drives.	Packaging Content	1 x G593-ZX1-LAX1 1 x L-shape Rail kit
RAID	Require RAID add-in cards	Ordering Part Numbers	6NG593ZX1DR000LCX1*



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

\* All specifications are subject to change without notice. Please visit our website for the latest information.  
\* All trademarks and logos are the properties of their respective holders.

© 2025 Giga Computing Technology Co., Ltd. All rights reserved.

Designed by

