

G593-ZD1-LAX1 (Rev. 3.x)

HPC/AI Server - AMD EPYC™ 9005/9004 -
5U DP NVIDIA HGX™ H100 8-GPU 8-Root Port DLC



Key Features

- Liquid-cooled NVIDIA HGX™ H100 8-GPU
- CPU+GPU direct liquid cooling solution
- 900GB/s GPU-to-GPU bandwidth with NVIDIA NVLink™ and NVSwitch™
- 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

Specification

Dimensions	5U (W447 x H219.7 x D945 mm)	RAID	Require RAID add-in cards
Motherboard	MZB3-G43	Modular GPU	Liquid-cooled NVIDIA HGX™ H100 with 8 x SXM5 GPUs
CPU	AMD EPYC™ 9005 Series Processors AMD EPYC™ 9004 Series Processors Dual processor, cTDP up to 500W	PCIe Expansion Slots	4 x FHHL PCIe Gen5 x16 8 x LP PCIe Gen5 x16
OS Compatibility	OS Support List		*The ambient temperature is limited to 25°C when NVIDIA® BlueField®-3 DPUs/SuperNIC™ are installed.
Socket	2 x LGA 6096 (Socket SP5)	I/O Ports	Front: 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN (default) Rear: 1 x MLAN
Chipset	System on Chip	TPM	1 x TPM header (SPI), Optional TPM2.0 kit: CTM010
Memory	12-Channel DDR5 RDIMM, 24 x DIMMs [EPYC 9005] Up to 6400 MT/s [EPYC 9004] Up to 4800 MT/s	Power Supply	4+2 3000W 80 PLUS Titanium redundant power supplies AC Input: 115-240V
LAN	Front: 2 x 10Gb/s LAN (1 x Intel® X710-AT2), Support NCSI 1 x 10/100/1000 Mbps Management LAN Rear: 1 x 10/100/1000 Mbps Management LAN		*The system power supply requires C19 power cord.
Video	Integrated in ASPEED® AST2600 - 1 x VGA port	System Fans	Motherboard: 2 x 40x40x56mm 3 x 60x60x56mm PCIe slots: 4 x 40x40x28mm 2 x 40x40x56mm GPU tray: 4 x 80x80x80mm
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	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)
	^[1] Storage card is required to support SATA and SAS drives.		*To ensure system stability and prevent condensation, when the relative humidity exceeds 50%, the coolant inlet temperature must be higher than the dry-bulb temperature and it should not exceed 45°C.
		Packaging Content	1 x G593-ZD1-LAX1 1 x L-shape Rail kit
		Ordering Part Numbers	6NG593ZD1DR000LCX1*

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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