G593-SX1-LAX1

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

AMD INSTINCT MI300X | intel XEON | intel XEON MAX SERIES | 80 PLUS TITANIUM

Key Features

- Liquid-cooled 8 x AMD Instinct™ MI300X OAM GPUs
- CPU+GPU direct liquid cooling solution with leak detection
- Dual 5th/4th Gen Intel® Xeon® Scalable Processors
- Dual Intel® Xeon® CPU Max Series
- 8-Channel DDR5 RDIMM, 32 x DIMMs
- Dual ROM Architecture
- 2 x 10Gb/s LAN ports via Intel® X710-AT2
- 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	MSB3-G41	PCIe Expansion Slots	4 x FHHL PCIe Gen5 x16 8 x LP PCIe Gen5 x16
CPU	5th Generation Intel® Xeon® Scalable Processors 4th Generation Intel® Xeon® Scalable Processors Intel® Xeon® CPU Max Series Dual processor, TDP up to 350W	I/O Ports	**Front:** 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN **Rear:** 1 x MLAN
OS Compatibility	OS Support List	Backplane Board	PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s
Socket	2 x LGA 4677 (Socket E)	TPM	1 x TPM header (SPI), Optional TPM2.0 kit: CTM010
Chipset	Intel® C741	Power Supply	4+2 3000W 80 PLUS Titanium redundant power supplies AC Input: 115-240V *The system power supply requires C19 power cord.
Memory	8-Channel DDR5 RDIMM, 32 x DIMMs [5th Gen Intel Xeon] Up to 5600 MT/s (1DPC), 4400 MT/s (2DPC) [4th Gen Intel Xeon] Up to 4800 MT/s (1DPC), 4400 MT/s (2DPC) [Intel Xeon Max Series] Up to 4800 MT/s (1DPC), 4400 MT/s (2DPC)	System Management	ASPEED® AST2600 Baseboard Management Controller GIGABYTE Management Console web interface
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	System Fans	Motherboard: 2 x 40x40x28mm (25,000rpm) 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		
Storage	**Front hot-swap:** 8 x 2.5" Gen5 NVMe/SATA/**SAS-4** [1] [1] SAS card is required to support SAS drives.	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)
RAID	Intel® SATA RAID 0/1/10/5 Support optional RAID add-in cards	Packaging Content	1 x G593-SX1-LAX1 6 x Carriers 1 x L-shape Rail kit
		Ordering Part Numbers	6NG593SX1DR000LBX1*