

# G593-SX1-LAX1

HPC/AI Server - 5th/4th Gen Intel® Xeon® Scalable -  
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 5th/4th Gen Intel® Xeon® Scalable Processors
- Dual Intel® Xeon® CPU Max Series
- 8-Channel DDR5 RDIMM, 32 x DIMMs
- 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

<b>Dimensions</b>	5U (447 x 219.7 x 945 mm)	<b>Modular GPU</b>	Liquid-cooled 8 x AMD Instinct™ MI300X OAM GPUs
<b>Motherboard</b>	MSB3-G41	<b>PCIe Expansion Slots</b>	4 x FHHL PCIe Gen5 x16 8 x LP PCIe Gen5 x16
<b>CPU</b>	5th Generation Intel® Xeon® Scalable Processors 4th Generation Intel® Xeon® Scalable Processors Intel® Xeon® CPU Max Series Dual processor, TDP up to 350W	<b>I/O Ports</b>	<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
<b>OS Compatibility</b>	<a href="#">OS Support List</a>	<b>Backplane Board</b>	PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s
<b>Socket</b>	2 x LGA 4677 (Socket E)	<b>TPM</b>	1 x TPM header (SPI), Optional TPM2.0 kit: CTM010
<b>Chipset</b>	Intel® C741	<b>Power Supply</b>	4+2 3000W 80 PLUS Titanium redundant power supplies AC Input: 115-240V  *The system power supply requires C19 power cord.
<b>Memory</b>	8-Channel DDR5 RDIMM, 32 x DIMMs [5th Gen Intel Xeon] Up to 5600 MT/s (1DPC), 4400 MT/s (2DPC) <sup>[1]</sup> [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)  <sup>[1]</sup> 5600 MT/s support under 2DPC configuration requires verified memory and BIOS setup.	<b>System Fans</b>	Motherboard: 2 x 40x40x28mm / 3 x 60x60x56mm PCIe slots: 4 x 40x40x28mm / 2 x 40x40x56mm GPU tray: 4 x 80x80x80mm
<b>LAN</b>	<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	<b>Operating Properties</b>	Operating: 10°C to 30°C, 8% to 80% (non-condensing) Non-operating: -40°C to 60°C, 20% to 95% (non-condensing)  *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.
<b>Video</b>	Integrated in ASPEED® AST2600 - 1 x VGA port	<b>Packaging Content</b>	1 x G593-SX1-LAX1 6 x Carriers 1 x L-shape Rail kit
<b>Storage</b>	<b>Front hot-swap:</b> 8 x 2.5" Gen5 NVMe/SATA/SAS-4 <sup>[1]</sup>  <sup>[1]</sup> SAS card is required to support SAS drives.	<b>Ordering Part Numbers</b>	6NG593SX1DR000LBX1*
<b>RAID</b>	Intel® SATA RAID 0/1/10/5 Support <b>optional</b> RAID add-in cards		



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

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Last updated: Jan 27, 2026

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