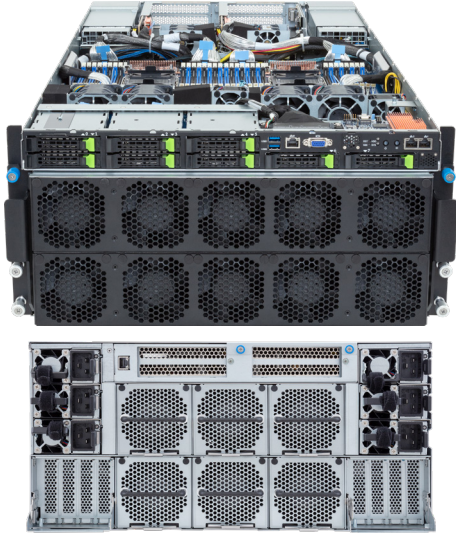


G593-SX1-AAX1

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

AMD
INSTINCT
MI300X



Features

- 8 x AMD Instinct™ MI300X OAM GPUs
- Dual 5th/4th Gen Intel® Xeon® Scalable Processors
- Dual Intel® Xeon® CPU Max Series
- 8-Channel RDIMM DDR5, 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-swappable bays
- 4 x FHHL PCIe Gen5 x16 slots
- 8 x LP PCIe Gen5 x16 slots
- 4+2 3000W 80 PLUS Titanium redundant power supplies

Application

AI, AI Inference, AI Training, High-Performance Computing

Specification

Dimensions	5U (W447 xH221.2 x D945 mm)	TPM	1 x TPM header with SPI interface (Optional TPM2.0 kit: CTM010)
Motherboard	MSB3-G41	Power Supply	4+2 3000W 80 PLUS Titanium redundant power supply AC Input: 115-240V
CPU	5th/4th Generation Intel® Xeon® Scalable Processors Intel® Xeon® CPU Max Series Dual processor, TDP up to 350W 2 x LGA 4677 (Socket E)	System Management	ASPEED® AST2600 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
Chipset	Intel® C741 Chipset	OS Compatibility	Windows Server 2019 / 2022 RHEL 8.6 / 8.7 / 8.8 / 8.9 / 8.10 / 9.0 / 9.1 / 9.2 / 9.3 / 9.4 SLES 15 SP4 / SP5 / SP6 Ubuntu 22.04 / 22.04.1 / 22.04.2 / 22.04.3 / 22.04.4 / 24.04 LTS VMware ESXi 7.0 Update 3o / 8.0 Update 1, Update 2, Update 3 Citrix Hypervisor 8.2 LTSR CU1
Memory	8-Channel DDR5 memory, 32 x DIMM slots RDIMM modules up to 96GB supported 3DS RDIMM modules up to 256GB supported Memory speed: Up to 5600 MT/s (1DPC), 4400 MT/s (2DPC)	System Fans	6 x 40x40x28mm (25,000rpm), 2 x 40x40x56mm (29,700rpm), 4 x 60x60x56mm (24,000rpm), 6 x 80x80x80mm (17,000rpm), 10 x 80x80x80mm (17,200rpm)
LAN	2 x 10Gb/s BASE-T LAN ports (Intel® X710-AT2) - Supported NCSI 1 x 10/100/1000 management LAN	Operating Properties	Operating temperature: 10°C to 35°C Operating humidity: 8-80% (non-condensing) Non-operating temperature: -40°C to 60°C Non-operating humidity: 20%-95% (non-condensing)
Video	ASPEED® AST2600 Integrated 2D Graphic Adapter	Packaging Content	1 x G593-SX1-AAX1, 2 x CPU heatsinks, 6 x Carrier clips, 1 x L-shape Rail kit Packaging Dimensions: 1200 x 890 x 700 mm
Storage	8 x 2.5" Gen5 NVMe/SATA/SAS hot-swappable HDD/SSD bays SAS card is required to support SAS drives.	Reference Numbers	Barebone w/ AMD module: 6NG593SX1DR000ABX1* - L-shape Rail kit: 25HB2-A96102-K0R - CPU heatsink: 25ST1-24320H-M1R - Power supply: 25EP0-23000N-L0S - C19 power cord 125V/15A (US): 25CP1-018000-Q0R (optional) - C19 power cord 250V/16A (EU): 25CP3-01830H-Q0R (optional) - C19 power cord 125V/15A (JP): 25CPA-01830B-Q0R (optional)
RAID	Intel® SATA RAID 0/1/10/5 (Support optional RAID add-in cards)		
Expansion Slots	8 x AMD Instinct™ MI300X OAM GPUs 4 x PCIe Gen5x16 FHHL slots 8 x PCIe Gen5 x16 low-profile slots		
I/O ports	Front side: 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN (default) Rear side: 1 x MLAN Internal: 1 x TPM header, 1 x VROC connector		
Backplane Board	Speed and bandwidth: PCIe Gen5 x4 or SATA 6Gb/s or SAS 12Gb/s		



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

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