GIGABYTE™

G593-SD1-AAX1

HPC/AI Server - 5U DP NVIDIA HGX™ H100 8-GPU 8-Root Port

NVIDIA Certified | intel XEON | intel XEON MAX SERIES | Red Hat Certified Technology | vmware READY | Windows Server 2022 Certified
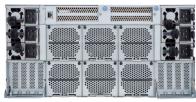
Key Features

- **NVIDIA-Certified Systems™ - Data Center Servers**
- NVIDIA HGX™ H100 8-GPU
- 900GB/s GPU-to-GPU bandwidth with NVIDIA NVLink™ and NVSwitch™
- Dual 5th/4th Gen Intel® Xeon® Scalable Processors
- Dual Intel® Xeon® CPU Max Series
- 8-Channel DDR5 RDIMM, 32 x DIMMs
- Dual ROM Architecture
- Compatible with NVIDIA® BlueField®-3 DPUs/SuperNICs
- 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

Specification

Dimensions	5U (W447 x H219.7 x D945 mm)	Modular GPU	NVIDIA HGX™ H100 with 8 x SXM5 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 (default) **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 *When both MLAN ports are connected with cables, the front MLAN port will be set as the default.	System Fans	Motherboard: 2 x 40x40x28mm / 4 x 60x60x56mm PCIe slots: 4 x 40x40x28mm / 2 x 40x40x56mm GPU tray: 6 x 60x60x76mm / 11 x 80x80x80mm
Video	Integrated in ASPEED® AST2600 - 1 x VGA port	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)
Storage	**Front hot-swap:** 8 x 2.5" Gen5 NVMe/SATA/**SAS-4** [1] [1] SAS card is required to support SAS drives.	Packaging Content	1 x G593-SD1-AAX1 2 x CPU heatsinks 6 x Carriers 1 x L-shape Rail kit
RAID	Intel® SATA RAID 0/1/10/5 Support **optional** RAID add-in cards	Ordering Part Numbers	6NG593SD1DR000ABX1*