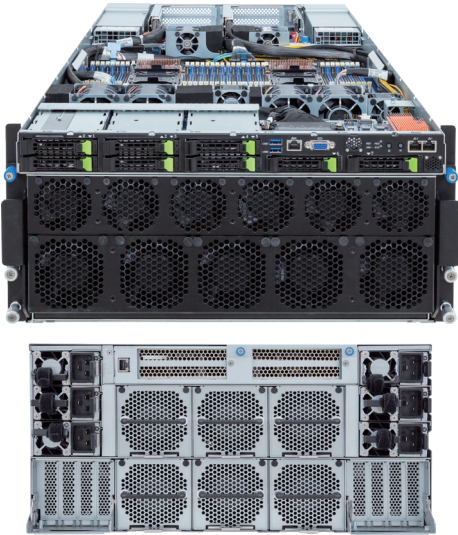# GIGABYTE™

G593-SD2-AAX1

HPC/AI Server - 5U DP HGX H100 8-GPU

NVIDIA®

intel. XEON

Features

- Supports NVIDIA HGX™ H100 with 8 x SXM5 GPUs
- Supports NVIDIA® NVLink® and NVSwitch™ technology
- Up to 900GB/s GPU to GPU interconnection
- 4th/5th Gen Intel® Xeon® Scalable Processors
- Intel® Xeon® CPU Max Series
- Dual processor, LGA 4677
- 8-Channel RDIMM DDR5, 32 x DIMMs
- Dual ROM Architecture
- Compatible with NVIDIA® BlueField®-2 / BlueField®-3 DPUs
- 2 x 10Gb/s BASE-T LAN ports
- 1 x dedicated management port
- 8 x 2.5" Gen5 NVMe/SATA 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

Specification

Dimensions	5U (W447 x H222.25 x D945 mm)	**Backplane I/O**	PCIe Gen5 x4 or SATA 6Gb/s or SAS 12Gb/s
Motherboard	MSB3-G40	**TPM**	1 x TPM header with SPI interface (Optional TPM2.0 kit: CTM010)
CPU	5th Generation Intel® Xeon® Scalable Processors 4th Generation Intel® Xeon® Scalable Processors Intel® Xeon® CPU Max Series Dual processor, CPU TDP up to 350W	**Power Supply**	4+2 3000W 80 PLUS Titanium redundant power supply AC Input: 115-240V
Socket	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 / 9.0 / 9.1 / 9.2 / 9.3 (x64) SLES 15 SP4 / SP5 (x64) Ubuntu 20.04.6 / 22.04 / 22.04.1 / 22.04.2 / 22.04.3 LTS (x64) VMware ESXi 7.0 Update 3i & 3o / 8.0 / 8.0 Update 1 & 2 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 MHz (1DPC), 4400 MHz (2DPC)		
LAN	2 x 10Gb/s BASE-T LAN ports (Intel® X710-AT2) - Supported NCSI 1 x 10/100/1000 management LAN	**System Fans**	Front: 5 x 80x80x80mm (17,200rpm), 6 x 60x60x76mm (21,700rpm) Rear: 6 x 80x80x80mm (17,000rpm), 2 x 40x40x56mm (29,700rpm) Internal: 6 x 40x40x28mm (25,000rpm), 4 x 60x60x56mm (24,000rpm)
Video	Integrated in Aspeed AST2600 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp, DDR4 SDRAM	**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)
Storage	8 x 2.5" Gen5 NVMe/SATA/SAS hot-swappable HDD/SSD bays SAS card is required for SAS devices support	**Packaging Content**	1 x G593-SD2, 2 x CPU heatsinks, 6 x Carrier clips, 1 x L-shape Rail kit
RAID	Intel® SATA RAID 0/1/10/5	**Reference Numbers**	Barebone w/ NVIDIA module (4/5th Gen): 6NG593SD2DR000ABX1* Barebone w/ NVIDIA module (4th Gen): 6NG593SD2DR000AAX1* - Motherboard: 9MSB3G40NR-000 - L-shape Rail kit: 25HB2-A96102-K0R - CPU heatsink: 25ST1-24320H-M1R - Power supply: 25EP0-23000J-D0S - C19 power cord 125V/15A (US): 25CP1-018000-Q0R (optional) - C19 power cord 250V/16A (EU): 25CP3-01830H-Q0R (optional)
Expansion Slots	NVIDIA HGX™ H100 with 8 x SXM5 GPUs (4-root ports) 4 x PCIe Gen5 x16 FHFL slots 8 x PCIe Gen5 x16 low-profile slots		
Front I/O	2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN (default port)		
Rear I/O	1 x MLAN		

Learn more about GIGABYTE server, visit **https://www.gigacomputing.com**

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