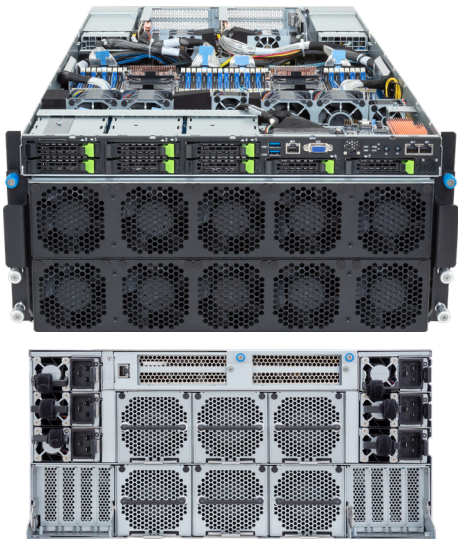


G593-SD1-AAX1

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

 **NVIDIA**
Certified



Features

- NVIDIA-Certified Systems™ - Data Center Servers
- NVIDIA HGX™ H100 with 8 x SXM5 GPUs
- 900GB/s GPU-to-GPU bandwidth with 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-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 219.7 x 945 mm)	Backplane I/O	PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s
Motherboard	MSB3-G41	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, 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 / 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 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 60x60x76mm (21,700rpm), 6 x 80x80x80mm (17,000rpm), 5 x 80x80x80mm (17,200rpm)
LAN	2 x 10Gb/s LAN ports (1 x Intel® X710-AT2) Supported NCSI function 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-SD1-AAX1, 2 x CPU heatsinks, 6 x Carrier clips, 1 x L-shape Rail kit
Storage	8 x 2.5" Gen5 NVMe/SATA/SAS4 hot-swappable HDD/SSD bays *SAS card is required to support SAS drives.	Reference Numbers	Barebone w/ NVIDIA module (5/4th Gen): 6NG593SD1DR000ABX1* Barebone w/ NVIDIA module (4th Gen): 6NG593SD1DR000AAX1* - L-shape Rail kit: 25HB2-A96102-K0R - CPU heatsink: 25ST1-24320H-M1R - Power supply: 25EPO-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	Supports NVIDIA HGX™ H100 with 8 x SXM5 GPUs (8-root ports) 4 x PCIe x16 (Gen5 x16) FHHL slots 8 x PCIe x16 (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 at <https://www.gigabyte.com/Enterprise>

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