G593-SD1-AAX1
HPC/AI Server - 5U DP HGX H100 8-GPU

**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 8 PLUS Titanium redundant power supplies

**Specification**

- **Dimensions**: 5U (W447 x H222.25 x D945 mm)
- **Motherboard**: MSB3-G41
- **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
- **Socket**: 2 x LGA 4677 (Socket E)
- **Chipset**: Intel® C741 Chipset
- **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
- **Video**: Integrated in Aspeed AST2600
  - 2D Video Graphic Adapter with PCIe bus interface
  - 1920x1200@60Hz 32bpp, DDR4 SDRAM
- **Storage**: 8 x 2.5" Gen5 NVMe/SATA/SAS hot-swappable HDD/SSD bays
  - SAS card is required for SAS devices support
- **RAID**: Intel® SATA RAID 0/1/10/5
- **Expansion Slots**: NVIDIA HGX™ H100 with 8 x SXM5 GPUs (8-root ports)
  - 4 x PCIe Gen5 x16 FHHL 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
- **Backplane I/O**: PCIe Gen5 x4 or SATA 6Gb/s or SAS 12Gb/s
- **TPM**: 1 x TPM header with SPI interface (Optional TPM2.0 kit: CTM010)
- **Power Supply**: 4+2 3000W 8 PLUS Titanium redundant power supply
  - AC Input: 115-240V
- **System Management**: Aspeed® AST2600 management controller
  - GIGABYTE Management Console (AMI MegaRAC SP-X)
- **OS Compatibility**:
  - Windows Server 2019 / 2022
  - RHEL 8.6 / 8.7 / 8.8 / 9.0 / 9.1 / 9.2 / 9.3 (x64)
  - SLES 15 SP5 / SP5 (x64)
  - Ubuntu 20.04.6 / 22.04 / 22.04.1 / 22.04.2 / 22.04.3 LTS (x64)
  - VMware ESXi 7.0 Update 1 & 2
  - Citrix Hypervisor 8.2 LTSR CU1
- **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)
- **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)
- **Packaging Content**:
  - 1 x G593-SD1, 2 x CPU heatsinks,
  - 6 x Carrier clips, 1 x L-Shape Rail kit
- **Reference Numbers**:
  - Barebone w/ NVIDIA module (4/5th Gen): 6NG593SD1DR000ABX1*
  - Barebone w/ NVIDIA module (4th Gen): 6NG593SD1DR000AAX1*
  - Motherboard: 9MSB3G41NR-000
  - L-shape Rail kit: 25ST1-24520H-M1R
  - - CPU heatsink: 25ST1-24520H-M1R
  - - Power supply: 25EP0-23000J-D0S
  - - C19 power cord 125V/15A (US): 25CP1-018000-Q0R (optional)
  - - C19 power cord 230V/16A (EU): 25CP3-01830H-Q0R (optional)

Learn more about GIGABYTE server, visit [https://www.gigacomputing.com](https://www.gigacomputing.com)

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