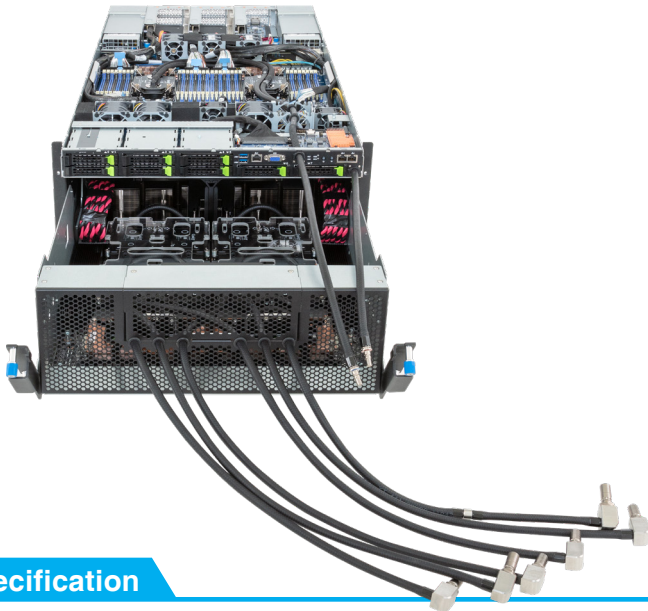


# G593-SD0-LAX1

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



### Features

- CPU+GPU Direct liquid cooling solution
- Supports NVIDIA HGX™ H100 8-GPU
- Supports NVIDIA NVLink and NVSwitch™
- Up to 900GB/s GPU to GPU interconnection
- Dual 4th Gen Intel® Xeon® Scalable Processors
- Intel® Xeon® CPU Max Series
- 8-Channel RDIMM DDR5, 32 x DIMMs
- Dual ROM Architecture
- Compatible with NVIDIA® BlueField®-2 DPUs
- 2 x 10Gb/s BASE-T LAN and 1 x MLAN ports
- 8 x 2.5" Gen5 NVMe/SATA/SAS hot-swap bays
- 12 x PCIe Gen5 x16 + 1 x PCIe Gen4 x16 LP slots
- 4+2 3000W 80+ Titanium redundant power supplies

### Specification

|                        |  |                             |   |
|------------------------|--|-----------------------------|---|
| <b>Dimensions</b>      | 5U (W447 x H222.25 x D945 mm)  | <b>Rear I/O</b>             | 1 x MLAN  |
| <b>Motherboard</b>     | MSB3-G40   | <b>Backplane I/O</b>        | PCIe Gen5 x4 or SATA 6Gb/s or SAS 12Gb/s  |
| <b>CPU</b>             | 4th Generation Intel® Xeon® Scalable Processors<br>Intel® Xeon® CPU Max Series<br>Intel® Xeon® Platinum Processor, Intel® Xeon® Gold Processor,<br>Intel® Xeon® Silver Processor<br>CPU TDP up to 350W | <b>TPM</b>                  | 1 x TPM header with SPI interface (Optional TPM2.0 kit: CTM010)   |
| <b>Socket</b>          | 2 x LGA 4677 (Socket E)  | <b>Power Supply</b>         | 4+2 3000W 80 PLUS Titanium redundant power supply<br>AC Input: 115-240V   |
| <b>Chipset</b>         | Intel® C741 Chipset  | <b>System Management</b>    | Aspeed® AST2600 management controller<br>GIGABYTE Management Console (AMI MegaRAC SP-X)   |
| <b>Memory</b>          | 8-Channel DDR5 memory, 32 x DIMM slots<br>RDIMM modules up to 128GB supported<br>3DS RDIMM modules up to 256GB supported<br>Memory speed: Up to 4800 MHz (1DPC), 4400 MHz (2DPC)                       | <b>OS Compatibility</b>     | Windows Server 2019 / 2022<br>RHEL 8.6 / 8.7 / 9.0 / 9.1 / 9.2 (x64)<br>SLES 15 SP4<br>Ubuntu 22.04 LTS / 22.04.1 LTS / 22.04.2 LTS(x64)<br>VMware ESXi 7.0 Update 3i / 8.0 / 8.0 Update 1<br>Citrix Hypervisor 8.2 LTSR CU1  |
| <b>LAN</b>             | 2 x 10Gb/s BASE-T LAN ports (Intel® X710-AT2)<br>Supported NCSI function<br>1 x 10/100/1000 management LAN   | <b>System Fans</b>          | Rear: 4 x 80x80x80mm (17,000rpm), 3 x 40x40x56mm (29,700rpm)<br>Internal: 6 x 40x40x28mm (25,000rpm), 3 x 60x60x56mm (24,000rpm)  |
| <b>Video</b>           | Integrated in Aspeed AST2600<br>2D Video Graphic Adapter with PCIe bus interface<br>1920x1200@60Hz 32bpp, DDR4 SDRAM   | <b>Operating Properties</b> | Operating temperature: 10°C to 35°C<br>Operating humidity: 8-80% (non-condensing)<br>Non-operating temperature: -40°C to 60°C<br>Non-operating humidity: 20%-95% (non-condensing)   |
| <b>Storage</b>         | 8 x 2.5" Gen5 NVMe/SATA/SAS hot-swappable HDD/SSD bays<br>SAS card is required for SAS devices support   | <b>Packaging Content</b>    | 1 x G593-SD0, 1 x CPU liquid cooling kit<br>6 x Carrier clips, 1 x L-shape Rail kit   |
| <b>RAID</b>            | Intel® SATA RAID 0/1/10/5  | <b>Reference Numbers</b>    | Barebone w/ NVIDIA module: 6NG593SD0DDR000LAX1*<br>- Motherboard: 9MSB3G40NR-000<br>- L-shape Rail kit: 25HB2-A96102-K0R<br>- CPU liquid cooling kit: 25ST7-100009-C4R<br>- GPU liquid cooling kit: 25ST7-3000G5-C4R<br>- Switch liquid cooling kit: 25ST7-3000Z6-C4R<br>- Power supply: 25EPO-23000J-D0S |
| <b>Expansion Slots</b> | Liquid cooled NVIDIA HGX™ H100 with 8 x SXM5 GPUs<br>12 x PCIe Gen5 x16 low-profile slots<br>1 x PCIe Gen4 x16 low-profile slot  |                             |   |
| <b>Front I/O</b>       | 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN (default port)   |                             |   |



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

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