G593-SD1-LAX3

HPC Server - 5U DP NVIDIA HGX™ H200 8-GPU

Features

- CPU+GPU Direct liquid cooling solution
- Liquid cooled NVIDIA HGX™ H200 8-GPU
- 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)
Motherboard	MSB3-G41
GPU	Liquid cooled NVIDIA HGX™ H200 8-GPU (8-root ports)
CPU	5th/4th Generation Intel® Xeon® Scalable Processors Intel® Xeon® CPU Max Series Dual processor, 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 up to 96GB; 3DS RDIMM up to 256GB supported Memory speed: Up to 5600 MT/s (1DPC), 4400 MT/s (2DPC)
LAN	2 x 10Gb/s LAN ports (1 x Intel® X710-AT2) - Support NCSI function 1 x 10/100/1000 management LAN
Video	Integrated in ASPEED® AST2600 - 1 x VGA port
Storage	8 x 2.5" Gen5 NVMe/SATA/SAS4 hot-swappable HDD/SSD bays *SAS card is required to support SAS drives.
RAID	Intel® SATA RAID 0/1/10/5 Support optional RAID add-in cards
Expansion Slots	4 x PCIe x16 (Gen5 x16) FHHL slots 8 x PCIe x16 (Gen5 x16) low-profile slots
I/O Ports	Front: 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN (default) Rear: 1 x MLAN Internal: 1 x TPM header, 1 x VROC connector

Application	AI, AI Inference, AI Training, High-Performance Computing...
TPM	1 x TPM header with SPI interfaceOptional TPM2.0 kit: CTM010)
Backplane Board	Speed and bandwidth: PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s
Power Supply	4+2 3000W 80 PLUS Titanium redundant power supply AC Input: 115-240V *The system power supply requires C19 power cord.
System Management	ASPEED® AST2600 Baseboard Management Controller GIGABYTE Management Console web interface
OS Compatibility	Windows Server, Red Hat Enterprise Linux Server, VMware ESXi, SUSE Linux Enterprise, Ubuntu Server, Citrix Hypervisor
System Fans	6 x 40x40x28mm (25,000rpm), 2 x 40x40x56mm (32,000rpm), 3 x 60x60x56mm (24,000rpm), 4 x 80x80x80mm (17,000rpm)
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-LAX3, 1 x CoolIT CPU cold plate loop, 6 x Carrier clips, 1 x L-shape Rail kit Packaging Dimensions: 1200 x 890 x 700 mm
Part Numbers	Barebone w/ NVIDIA module: 6NG593SD1DR000LBX3* Optional parts: - C19 power cord 125V/15A (US): 25CP1-018000-Q0R - C19 power cord 250V/16A (EU): 25CP3-01830H-Q0R - C19 power cord 125V/15A (JP): 25CPA-01830B-Q0R

Learn more at **https://www.GIGABYTE.com/enterprise**

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