G493-SB1-AAP1
GPU Server - 4U DP 10-GPU 12-bay NVMe/SATA

Features
- Supports up to 10 x double slot Gen5 GPU cards
- 4th Gen. Intel® Xeon® Scalable Processors
- Intel® Xeon® CPU Max Series
- Dual processor, LGA4677
- 8-Channel RDIMM DDR5, 32 x DIMMs
- Dual ROM Architecture supported
- 2 x 10Gb/s BASE-T LAN ports (Intel® X710-AT2)
- 1 x dedicated management port
- 12 x 3.5/2.5" NVMe/SATA hot-swappable bays
- 1 x Ultra-Fast M.2 with PCIe Gen3 interface
- 8 x FHFL PCIe Gen5 x16 slots for GPU cards
- 2 x LP PCIe Gen5 x16 MD2 expansion slots on front side
- 3+1 3000W (240V) 80 PLUS Titanium redundant power supply

Specification

Dimensions: 4U (W448 x H176 x D880 mm)

Motherboard: MSB3-G40

CPU: 4th Gen Intel® Xeon® Scalable Processors
- Intel® Xeon® CPU Max Series
- Intel® Xeon® Platinum Processor, Intel® Xeon® Gold Processor, Intel® Xeon® Silver Processor
- CPU TDP up to 350W
- 2 x LGA 4677 (Socket E)

Socket: 2 x LGA 4677 (Socket E)

Chipset: Intel® C741 Chipset

Memory:
- 8-Channel DDR5 memory, 32 x DIMM slots
- RDIMM modules up to 128GB supported
- 3DS RDIMM modules up to 256GB supported
- Memory speed: Up to 4800 MHz (1DPC), 4400 MHz (2DPC)

LAN:
- 2 x 10Gb/s BASE-T LAN ports (Intel® X710-AT2)
- Supported NCSI function
- 1 x 10/100/1000 management LAN

Video:
- Integrated in Aspeed AST2600
- 2D Video Graphic Adapter with PCIe bus interface
- 1920x1200@60Hz 32bpp, DDR4 SDRAM

Storage:
- 12 x 3.5" SATA/SAS hot-swappable bays
- SAS card is required for SAS devices support

RAID: Intel SATA RAID 0/1/0/5

Expansion Slots:
- 10 x PCIe Gen5 x16 FHFL slots for GPUs on rear side
- 2 x PCIe Gen5 x16 Low-profile MD2 slots on front side
- 1 x M.2 slot (M-key, PCIe Gen3 x1, supports 2280/22110)

Front I/O:
- 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 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:
- 3+1 3000W (240V) 80 PLUS Titanium redundant power supply
- AC Input: 100-240V

System Management:
- Aspeed® AST2600 management controller
- GIGABYTE Management Console (AMI MegaRAC SP-X)

OS Compatibility:
- Windows Server 2019 / 2022
- RHEL 8.6 / 8.7 / 9.1 / 9.2 / 9.3 (x64)
- SLES 15 SP4 / SP5 (x64)
- Ubuntu 22.04 / 22.04.1 / 22.04.2 / 22.04.3 LTS (x64)
- VMware ESXi 7.0 Update 3o / 8.0 / 8.0 Update 1 / 8.0 Update 2
- Citrix Hypervisor 8.2 LTSR CU1

System Fans:
- 12 x 60x50x38mm (23,000rpm), 4 x 40x40x28mm (25,000rpm)

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:
- 1 x G493-SB1, 2 x CPU heatsinks,
- 6 x Carrier clips, 1 x Rail kit

Reference Numbers:
- Barebone package: 8NG493SB1DR000AAP1*
  - Motherboard: 9MSB3G40NR-000
  - Rail kit: 25HB2-A96100-K0R
  - CPU Fan-sink: 25ST1-363204-C1R
  - Back plane board_12-port_3.5": 9CBP20C7NR-00
  - Power supply: 25EP0-230005-G1S
  - C19 power cord 125V/15A (US): 25CP1-018000-Q0R (optional)
  - C19 power cord 250V/16A (EU): 25CP3-01830H-Q0R (optional)

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

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