G493-SB2-AAP1
GPU Server - 4U DP 8-GPU 12-bay NVMe/SATA

**Features**

- Supports up to 8 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
- 4 x FHHL PCIe Gen5 x16 slots on rear side
- 2 x LP PCIe Gen5 x16 MD2 expansion slots on front side
- 3+1 3000W (240V) 80 PLUS Titanium redundant power supply

**Specification**

<table>
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<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>4U (W448 x H176 x D880 mm)</td>
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<tr>
<td><strong>Motherboard</strong></td>
<td>MSB3-G40</td>
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</table>
| **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)  
                  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  
                  2 x 10Gb/s BASE-T LAN ports (Intel® X710-AT2)  
                  Supported NCSI function |
| **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 0/1/10/5  
                  Integrated in Aspeed AST2600  
                  2D Video Graphic Adapter with PCIe bus interface  
                  1920x1200@60Hz 32bpp, DDR4 SDRAM |
| **Front I/O**    | 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN |

**Rear I/O**

- N/A

**Backplane I/O**

- PCle 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: 110-240V

**System Management**

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

**OS Compatibility**

- Windows Server 2019 / 2022  
  RHEL 8.4 / 8.5 / 8.6 / 8.7 / 9.0 / 9.1 (x64)  
  SLES 15 SP3 / 15 SP4 (x64)  
  Ubuntu 22.04 LTS / 22.04.1 LTS (x64)  
  VMware ESXi 7.0 Update 3 / 8.0

**System Fans**

- 6 x 60x60x38mm (23,000rpm)

**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 G493-SB2, 2 x CPU heatsinks,  
  6 x Carrier clips, 1 x Rail kit

**Reference Numbers**

- Barebone package: 6NG493SB2DR000AAP1*  
  - Motherboard: 9MSB3G40NR-000  
  - Rail kit: 25HB2-A96100-K0R  
  - CPU Fan-link: 25ST1-362304-C1R  
  - Back plate board,12_port_3.5": 9CBP20C7NR-00  
  - Power supply: 25EP0-30005-G1S  
  - C19 power cord 125V/15A (US): 25CP1-019000-Q0R (optional)  
  - C19 power cord 250V/16A (EU): 25CP3-018000-Q0R (optional)

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

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