# G293-S46-AAM1

**HPC/AI Server - 2U DP 4 x PCIe Gen5 GPUs**

## Specification

<table>
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<tr>
<th>Feature</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>2U (W448 x H87.5 x D800 mm)</td>
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<tr>
<td><strong>Motherboard</strong></td>
<td>MS43-G21</td>
</tr>
</tbody>
</table>
| **CPU** | 4th Generation Intel® Xeon® Scalable Processors  
Intel® Xeon® Platinum Processor, Intel® Xeon® Gold Processor, Intel® Xeon® Silver Processor  
Dual processor, CPU TDP up to 225W |
| **Socket** | 2 x LGA 4677 (Socket E) |
| **Chipset** | Intel® C741 Chipset |
| **Memory** | 8-Channel DDR5 memory, 16 x DIMM slots  
RDIMM modules up to 128GB supported  
3DS RDIMM modules up to 256GB supported  
Memory speed: Up to 4800 MHz |
| **LAN** | 2 x 10Gb/s BASE-T LAN ports (Broadcom® BCM57416)  
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** | 8 x 2.5" Gen5 NVMe/SATA/SAS hot-swappable bays  
SAS card is required for SAS devices support |
| **RAID** | Intel® SATA RAID 0/1/10/5 |
| **Expansion Slots** | 4 x FHFL PCIe Gen5 x16 slots for GPUs  
2 x LP PCIe Gen5 x16 slots for add-on cards |
| **Front I/O** | N/A |

## Features

- Supports up to 4 x Dual slot Gen5 GPU cards
- 4th Gen Intel® Xeon® Scalable Processors
- Dual processor, LGA 4677
- 8-Channel RDIMM DDR5 per processor, 16 x DIMMs
- Dual ROM Architecture
- 2 x 10Gb/s BASE-T LAN ports
- 1 x Dedicated management port
- 8 x 2.5" Gen5 NVMe/SATA/SAS hot-swappable bays
- 4 x FHFL PCIe Gen5 x16 slots for GPUs
- 2 x LP PCIe Gen5 x16 slots for add-on cards
- Dual 2200W 80 PLUS Titanium redundant power supply

## Rear 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

- Dual 2200W 80 PLUS Titanium redundant power supply
- AC Input: 100-240V

## System Management

- Aspeed® AST2800 management controller
- GIGABYTE Management Console (AMI MegaRAC SP-X)

## OS Compatibility

- Windows Server 2019 / 2022

- RHEL 8.6 / 8.7 / 9.0 / 9.1 / 9.2 (x64)
- SLES 15 SP4 (x64)
- Ubuntu 22.04 / 22.04.1 / 22.04.2 / 22.04.3 LTS (x64)
- VMware ESXi 7.0 Update 3i / 8.0 / 8.0 Update 1
- Citrix Hypervisor r 8.2 LTSR CU1

## System Fans

- 4 x 80x80x80mm (16,500rpm)

## 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 G293-S46, 2 x CPU heatsinks, 6 x Carrier clips, 1 x L-shape Rail kit

## Reference Numbers

- Barebone with rail kit: 0NG293S46DR000AAM1*
- L-shape Rail kit: 25HB2-A86102-K0R
- CPU heatsinks: 25ST1-36300F-C1R25ST1-453007-C1R
- Power supply: 25EP0-2200A-G1S
- C19 power cord 125V/15A (US): 25CP1-018000-Q0R (optional)
- C19 power cord 250V/16A (EU): 25CP3-01830H-Q0R (optional)

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