**G293-S42-AAP1**

**GPU Server - 2U DP 8-GPU 8-bay NVMe/SATA**

**Features**

- Supports up to 8 x dual slot Gen5 GPU cards
- 4th Gen Intel® Xeon® Scalable Processors
- Dual processors, LGA4677
- 8-Channel RDIMM DDR5 per processor, 24 x DIMMs
- Dual ROM Architecture supported
- 2 x 10Gb/s BASE-T LAN ports (Intel® X710-AT2)
- 1 x Dedicated management port
- 4 x Gen5 NVMe/ SATA + 4 x SATA 2.5" hot-swappable bays
- 8 x FHFL PCIe Gen5 x16 slots for GPUs
- 2 x PCIe Gen5 x16 low-profile slots for add-on cards
- Dual 3000W 80 PLUS Titanium redundant power supply

**Specification**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>2U (W448 x H87.5 x D800 mm)</th>
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<tbody>
<tr>
<td>Motherboard</td>
<td>MS43-G20</td>
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</table>
| CPU | 4th Generation Intel® Xeon® Scalable Processors
Intel® Xeon® Platinum Processor, Intel® Xeon® Gold Processor, Intel® Xeon® Silver Processor
CPU TDP up to 225W |
| Socket | 2 x LGA 4677 (Socket E) |
| Chipset | Intel® C741 Chipset |
| Memory | 8-Channel DDR5 memory, 24 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 NC/SI 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 | 4 x 2.5" Gen5 NVMe/SATA/SAS hot-swappable bays
4 x 2.5" SATA/SAS hot-swappable bays
SAS card is required for SAS devices support |
| RAID | Intel® SATA RAID 0/1/10/5 |
| Expansion Slots | 8 x PCIe Gen5 x16 FHFL slots
2 x PCIe Gen5 x16 low-profile slots |
| Front I/O | N/A |

**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 3000W 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 8.4 / 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 3i / 8.0
- Citrix Hypervisor 8.2.1

**System Fans**

- 8 x 80x80x38mm (18,300rpm)

**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 G293-S42, 2 x CPU heatsinks,
6 x Carrier clips, 1 x Rail kit
Packaging Dimensions: 1133 x 724 x 261 mm

**Reference Numbers**

- Barebone with rail kit: 8NG293S42DR000AAP1*
- Motherboard: 9MS43G20UR-000
- Rail kit: 25HB2-A86102-K0R
- CPU heatsink: 25ST1-36300F-C1R25ST1-453207-C1
- Power supply: 25EP0-300005-GIS
- C19 power cord 125V/15A (US): 25CP1-018000-Q0R (optional)
- C19 power cord 250V/16A (EU): 25CP3-01830H-Q0R (optional)

* All specifications are subject to change without notice. Please visit our website for the latest information.
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