G293-Z41-AAP1
GPU Server - 2U DP 8-GPU 8-bay NVMe/SATA

Features

• Supports up to 4 x Dual slot Gen5 GPU cards
• AMD EPYC™ 9004 series processors
• Dual processor, 5nm technology
• 12-Channel RDIMM DDR5, 24 x DIMMs
• Dual ROM Architecture supported
• 2 x 10Gb/s BASE-T LAN ports (Broadcom® BCM57416)
• 1 x Dedicated management port
• 4 x 2.5” Gen5 NVMe/SATA hot-swappable bays
• 4 x 2.5” SATA hot-swappable bays
• 4 x PCIe Gen5 x16 or 8 x PCIe Gen5 x8 FHFL slots for GPUs
• 2 x LP PCIe Gen5 x16 slots for add-on cards
• Dual 3000W (240V) 80 PLUS Titanium redundant power supply

Specification

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>2U (W448 x H87.5 x D800mm)</th>
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<tbody>
<tr>
<td>Motherboard</td>
<td>MZ43-G20</td>
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</table>
| CPU | AMD EPYC™ 9004 series processor family
Dual processor, 5nm technology
Up to 32-core, 64 threads per processor, cTDP up to 240W
2 x LGA 6096 Socket SP5 |
| Chipset | System on Chip |
| Memory | 24 x DIMM slots
12-Channel DDR5 memory, up to 4800 MHz
RDIMM modules up to 128GB supported
3DS RDIMM modules up to 256GB supported |
| LAN | 2 x 10Gb/s BASE-T LAN ports (1 x 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@80Hz 32bpp, DDR4 SDRAM |
| Storage | 4 x 2.5” Gen5 NVMe/SATA SAS hot-swapable bays
4 x 2.5” SATA SAS hot-swapable bays
SAS card is required for SAS devices support |
| Expansion Slots | 4 x PCIe Gen5 x16 or 8 x PCIe Gen5 x8 for GPUs
2 x PCIe Gen5 x16 low-profile slots |
| 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 8.6 / 8.7 / 9.0 / 9.1 (x64)
SLES 15 SP4 (x64)
Ubuntu 20.04.5 LTS / 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 (16,300rpm) |

Operating Properties

Operating temperature: 10°C to 35°C
Non-operating temperature: -40°C to 60°C
Non-operating humidity: 20%-95% (non-condensing) |

Packaging Content | 1 x G293-Z41
2 x CPU heatsinks
1 x Rail kit |

Reference Numbers

Barebone package: 6NG293Z41DR000AAP1*
- Motherboard: 9MZ43G20UR-000
- Rail kit: 25HB2-A86102-K0R
- CPU heatsink: 25ST1-243105-A0R
- 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)