

G294-S43-AAP2

HPC/AI Server - 2U DP 16 x PCIe Gen5 GPUs



Key Features

- Supports up to 16 x Single slot Gen5 GPUs
- Dual Intel® Xeon® 6700/6500-Series Processors
- 8-Channel DDR5 RDIMM / MRDIMM, 24 x DIMMs
- Dual ROM Architecture
- 2 x 10Gb/s LAN ports via Intel® X710-AT2
- 8 x 2.5" Gen5 NVMe/SATA/SAS-4 hot-swap bays
- 16 x FHFL PCIe Gen5 x16 slots for GPUs
- 2 x LP PCIe Gen5 x16 slots
- Dual 3000W 80 PLUS Titanium redundant power supply

Applications

AI Platform, AI Inference Server, Visual Computing...

Specification

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|------------------|---|-----------------------|---|
| Dimensions | 2U (W448 x H87.5 x D850 mm) | PCIe Expansion Slots | 16 x FHFL PCIe Gen5 x16, for GPUs 2 x LP PCIe Gen5 x16 *The system is only validated with a uniform GPU model. |
| Motherboard | MS44-G20 | I/O Ports | Rear: 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN |
| CPU | Intel® Xeon® 6 Processors - Intel® Xeon® 6700-Series Processors - Intel® Xeon® 6500-Series Processors Dual processor, TDP up to 250W - At 30°C ambient, TDP up to 300W - At 25°C ambient, TDP up to 350W | Backplane Board | PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s |
| OS Compatibility | OS Support List | TPM | 1 x TPM header (SPI), Optional TPM2.0 kit: CTM012 1 x PProT connector (only enabled on RoT SKU) |
| Socket | 2 x LGA 4710 (Socket E2) | Power Supply | Dual 3000W 80 PLUS Titanium redundant power supply AC Input: 100-240V *The system power supply requires C19 power cord. |
| Chipset | System on Chip | System Management | ASPEED® AST2600 Baseboard Management Controller GIGABYTE Management Console web interface |
| Memory | 8-Channel DDR5 RDIMM/MRDIMM, 24 x DIMMs ^[1] [RDIMM] Up to 6400 MT/s (1DPC), 5200 MT/s (2DPC) [MRDIMM] Up to 8000 MT/s ^[2] ^[1] Intel® Xeon® 6700E-Series Processors only support up to 16 x DIMMs. ^[2] MRDIMMs are only supported with Intel® Xeon® 6 Processors with P-cores and in a 1DPC configuration. | System Fans | 6 x 80x80x80mm (17,500/15,000rpm) 2 x 80x80x80mm (18,700/15,100rpm) |
| LAN | 2 x 10Gb/s LAN (1 x Intel® X710-AT2), Support NCSI 1 x 10/100/1000 Mbps Management LAN | Operating Properties | Operating: 10°C to 35°C, 8% to 80% (non-condensing) Non-operating: -40°C to 60°C, 20% to 95% (non-condensing) |
| Video | Integrated in ASPEED® AST2600 - 1 x VGA port | Packaging Content | 1 x G294-S43-AAP2 2 x CPU heatsinks 4 x Carriers 1 x L-shape Rail kit |
| Storage | Front hot-swap: 8 x 2.5" Gen5 NVMe/SATA/SAS-4 ^[1] ^[1] SAS card is required to support SAS drives. | Ordering Part Numbers | 6NG294S43DR000AAP2* |
| RAID | Require RAID add-in cards Onboard VROC key headers | | |

