G294-S41-AAP1
HPC/AI Server - 2U DP 4 x PCIe Gen5 GPUs

Features
- Supports up to 4 x Dual slot Gen5 GPUs
- Dual Intel® Xeon® 6 Processors, LGA 4710
- 8-Channel DDR5 RDIMM / MCR DIMM, 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-swappable bays
- 4 x PCIe Gen5 x16 or 8 x PCIe Gen5 x8 FHFL slots for GPUs
- 2 x PCIe Gen5 x16 LP slots
- Dual 3000W 80 PLUS Titanium redundant power supply

Application
AI, AI Inference, AI Training, Visual Computing, High-Performance Computing Server

 Specification

Dimensions 2U (W448 x H87.5 x D880 mm)

Motherboard MS44-G20

CPU
- Intel® Xeon® 6 Processors
  - Intel® Xeon® 6700E-Series Processors
  - Intel® Xeon® 6700P-Series Processors
  - Intel® Xeon® 6500P-Series Processors
- Dual processor, TDP up to 225W
- 2 x LGA 4710 (Socket E2)

Chipset
- System on Chip
- 8-Channel DDR5 RDIMM / MCR DIMM, 24 x DIMMs* RDIMM: Up to 6400 MT/s (1DPC), 5200 MT/s (2DPC)
- MCR DIMM: Up to 8000 MT/s**
  *Intel Xeon 6700E-Series Processors only support up to 16 x DIMMs
  **MCR DIMMs are only supported with Intel Xeon 6 Processors with P-cores and in a 1DPC configuration.

LAN
- 2 x 10Gb/s LAN ports (1 x Intel® X710-AT2) - Supported NCSI
- 1 x 10/100/1000 Mbps Management LAN
- ASPEED® AST2600 Integrated 2D Graphic

Video
- ASPEED® AST2600 Integrated 2D Graphic

Memory
- 8 x 2.5” Gen5 NVMe/SATA/SAS-4* hot-swappable bays
  *SAS card is required to support SAS drives.

Expansion Slots
- 4 x PCIe Gen5 x16 or 8 x PCIe Gen5 x8 FHFL slots for GPUs
- 2 x PCIe Gen5 x16 low-profile slots

I/O Ports
- Rear: 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN
- Internal: 1 x TPM header, 1 x ProT connector, 1 x VROC connector

Backplane I/O
- PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s

Security Modules
- 1 x TPM header with SPI interface
- Optional TPM2.0 kit: CTM012
- 1 x ProT module connector (M.2 M-key)
- Optional ProT module (AST1060 solution): CSC1200

Power Supply
- Dual 3000W 80 PLUS Titanium redundant power supply
- AC Input: 100-240V
  *The system power supply requires C19 power cord.

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

System Fans
- 2 x 80x80x38mm (18,300rpm)
- 6 x 80x80x80mm (16,500rpm)

Operating
- 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 G294-S41-AAP1
- 2 x CPU heatsinks
- 4 x Carriers
- 1 x L-shape Rail kit

Part Numbers
- Barebone package: 6NG294S41DR000AAP1*
  - L-shape Rail kit: 25HB2-A86102-K0R
  - 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)
  - C19 power cord 125V/15A (JP): 25CPA-01830B-Q0R (optional)

* All specifications are subject to change without notice. Please visit our website for the latest information.
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Learn more about GIGABYTE server at https://www.gigabyte.com/Enterprise

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