

# G294-Z42-AAP2

HPC/AI Server - 2U DP 8 x PCIe Gen5 GPUs



## Key Features

- Supports up to 8 x Dual slot Gen5 GPUs
- Supports 4 x NVIDIA H200 NVL PCIe GPUs with 2-way NVLink bridges
- Dual AMD EPYC™ 9005/9004 Series Processors
- 12-Channel DDR5 RDIMM, 24 x DIMMs
- Dual ROM Architecture
- 2 x 10Gb/s LAN ports via Broadcom® BCM57416
- 4 x 2.5" Gen5 NVMe/SATA/SAS-4 hot-swap bays
- 4 x 2.5" SATA/SAS-4 hot-swap bays
- 8 x FHFL PCIe Gen5 x16 for GPUs
- 2 x LP PCIe Gen5 x16 slots for add-in cards
- Dual 3000W 80 PLUS Titanium redundant power supply

## Applications

AI Platform, AI Training Server, AI Inference Server, Visual Computing, High-Performance Computing Server...

## Specification

|                  |   |                      |  |
|------------------|---|----------------------|--|
| Dimensions       | 2U (448 x 87.5 x 850 mm)  | RAID                 | Require RAID add-in cards  |
| Motherboard      | MZ43-G20  | PCIe Expansion Slots | 8 x FHFL PCIe Gen5 x16, for GPUs<br>2 x LP PCIe Gen5 x16<br>*The system supports 4 x NVIDIA H200 NVL PCIe GPUs at 25°C ambient, arranged as two 2-GPU sets, each with a 2-way NVLink bridge. |
| CPU              | AMD EPYC™ 9005 Series Processors<br>AMD EPYC™ 9004 Series Processors<br>Dual processor, cTDP up to 240W<br>- At 30°C ambient, cTDP up to 300W | I/O Ports            | <b>Rear:</b><br>2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN  |
| OS Compatibility | <a href="#">OS Support List</a>   | Backplane Board      | PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s   |
| Socket           | 2 x LGA 6096 (Socket SP5)   | TPM                  | 1 x TPM header (SPI), Optional TPM2.0 kit: CTM010  |
| Chipset          | System on Chip  | Power Supply         | Dual 3000W 80 PLUS Titanium redundant power supply<br>AC Input: 100-240V<br>*The system power supply requires C19 power cord.  |
| Memory           | 12-Channel DDR5 RDIMM, 24 x DIMMs<br>[EPYC 9005] Up to 6400 MT/s<br>[EPYC 9004] Up to 4800 MT/s   | System Management    | ASPEED® AST2600 Baseboard Management Controller<br>GIGABYTE Management Console web interface   |
| LAN              | 2 x 10Gb/s LAN (1 x Broadcom® BCM57416), Support NCSI<br>1 x 10/100/1000 Mbps Management LAN  | System Fans          | 6 x 80x80x80mm (17,500rpm)<br>2 x 80x80x80mm (18,700rpm)   |
| Video            | Integrated in ASPEED® AST2600<br>- 1 x VGA port   | Operating Properties | Operating: 10°C to 35°C, 8% to 80% (non-condensing)<br>Non-operating: -40°C to 60°C, 20% to 95% (non-condensing)   |
| Storage          | <b>Front hot-swap:</b><br>4 x 2.5" Gen5 NVMe/SATA/SAS-4 [1]<br>4 x 2.5" SATA/SAS-4 [1]<br>[1] SAS card is required to support SAS drives.     | Packaging Content    | 1 x G294-Z42-AAP2<br>2 x CPU heatsinks<br>4 x GPU power cables (12VHPWR, 250mm)<br>4 x GPU power cables (12VHPWR, 280mm)<br>1 x L-shape Rail kit   |



Learn more at: <https://www.gigabyte.com/Enterprise>

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