

# G294-Z22-AAP2

HPC/AI Server - 2U UP 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
- Single AMD EPYC™ 9005/9004 Series Processors
- 12-Channel DDR5 RDIMM, 12 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
- 2 x M.2 slots with PCIe Gen5 x4 interface
- 8 x FHFL PCIe Gen5 x16 slots 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 (W448 x H87.5 x D850 mm)	PCIe Expansion Slots	8 x FHFL PCIe Gen5 x16, for GPUs 2 x LP PCIe Gen5 x16, for add-in cards <small>*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.</small>
Motherboard	MZ23-G20	I/O Ports	<b>Rear:</b> 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN
CPU	AMD EPYC™ 9005 Series Processors AMD EPYC™ 9004 Series Processors Single processor, cTDP up to 400W - At 35°C ambient, cTDP up to 400W <b>with optional heatsink</b> - At 25°C ambient, cTDP up to 500W <b>with optional heatsink</b>	Backplane Board	PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s
OS Compatibility	<a href="#">OS Support List</a>	TPM	1 x TPM header (SPI), Optional TPM2.0 kit: CTM010
Socket	1 x LGA 6096 (Socket SP5)	Power Supply	Dual 3000W 80 PLUS Titanium redundant power supply AC Input: 100-240V <small>*The system power supply requires C19 power cord.</small>
Chipset	System on Chip	System Management	ASPEED® AST2600 Baseboard Management Controller GIGABYTE Management Console web interface
Memory	12-Channel DDR5 RDIMM, 12 x DIMMs [EPYC 9005] Up to 6400 MT/s [EPYC 9004] Up to 4800 MT/s	System Fans	6 x 80x80x80mm (17,500rpm/15,000rpm) 2 x 80x80x80mm (18,700rpm/15,100rpm)
LAN	2 x 10Gb/s LAN (1 x Broadcom® BCM57416), Support NCSI 1 x 10/100/1000 Mbps Management LAN	Operating Properties	Operating: 10°C to 30°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-Z22-AAP2 1 x CPU heatsink 4 x GPU power cables (12VHPWR, 250mm) 4 x GPU power cables (12VHPWR, 280mm) 1 x L-shape Rail kit
Storage	<b>Front hot-swap:</b> 4 x 2.5" Gen5 NVMe/SATA/SAS-4 <sup>[1]</sup> 4 x 2.5" SATA/SAS-4 <sup>[1]</sup> <b>Internal M.2:</b> 2 x M.2 (2280/22110), PCIe Gen5 x4 <sup>[1]</sup> SAS card is required to support SAS drives.	Ordering Part Numbers	6NG294Z22DR000ACP2*
RAID	Require RAID add-in cards	Optional Parts	- CPU heatsink (400W@35°C, 500W@25°C): 25ST1-45320I-M1R



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

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