G294-Z41-AAP2

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

NVIDIA. AMD EPYC Windows Server 2025 Certified

Key Features

- Supports up to 4 x Dual slot Gen5 GPUs
- Supports 4 x NVIDIA H200 NVL PCIe GPUs
- 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
- 4 x FHFL PCIe Gen5 x16 or 8 x FHFL PCIe Gen5 x8 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)	RAID	Require RAID add-in cards
Motherboard	MZ43-G20	PCIe Expansion Slots	4 x FHFL PCIe Gen5 x16 or 8 x FHFL PCIe Gen5 x8, for GPUs 2 x LP PCIe Gen5 x16, for add-in cards ***The system supports 4 x NVIDIA H200 NVL PCIe GPUs at 25°C ambient, arranged as four individual GPUs without NVLink bridge support.** ***Maximum GPU dimensions (LxWxH): 285 x 111.5 x 39.5mm.** ***The system is only validated with a uniform GPU model.**
CPU	AMD EPYC™ 9005 Series Processors AMD EPYC™ 9004 Series Processors Dual processor, cTDP up to 240W - At 30°C ambient, cTDP up to 300W		
OS Compatibility	OS Support List	I/O Ports	**Rear:** 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN
Socket	2 x LGA 6096 (Socket SP5)	Backplane Board	PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s
Chipset	System on Chip	TPM	1 x TPM header (SPI), Optional TPM2.0 kit: CTM010
Memory	12-Channel DDR5 RDIMM, 24 x DIMMs [EPYC 9005] Up to 6400 MT/s [EPYC 9004] Up to 4800 MT/s	Power Supply	Dual 3000W 80 PLUS Titanium redundant power supply AC Input: 100-240V ***/The system power supply requires C19 power cord.**
LAN	2 x 10Gb/s LAN (1 x Broadcom® BCM57416), Support NCSI 1 x 10/100/1000 Mbps Management LAN	System Management	ASPEED® AST2600 Baseboard Management Controller GIGABYTE Management Console web interface
Video	Integrated in ASPEED® AST2600 - 1 x VGA port	System Fans	6 x 80x80x80mm (17,500rpm/15,000rpm) 2 x 80x80x80mm (18,700rpm/15,100rpm)
Storage	**Front hot-swap:** 4 x 2.5" Gen5 NVMe/SATA/**SAS-4** 4 x 2.5" SATA/**SAS-4** [1] SAS card is required to support SAS drives.	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)
		Packaging Content	1 x G294-Z41-AAP2 2 x CPU heatsinks 4 x GPU power cables (12VHPWR, 250mm) 1 x L-shape Rail kit

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

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