## G294-Z21-AAP2

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





## **Key Features**

- Supports up to 4 x Dual slot Gen5 GPUs
- Supports 4 x NVIDIA H200 NVL PCIe GPUs
- 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
- 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**

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

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Dimensions	2U (W448 x H87.5 x D850 mm)	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. *The system is only validated with a uniform GPU model.	
Motherboard	MZ23-G20			
CPU	AMD EPYC™ 9005 Series Processors  AMD EPYC™ 9004 Series Processors			
	Single processor, cTDP up to 400W - At 25°C ambient, cTDP up to 500W	I/O Ports	<b>Rear:</b> 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN	
OS Compatibility	OS Support List	Backplane Board	PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s	
Socket	1 x LGA 6096 (Socket SP5)	ТРМ	1 x TPM header (SPI), Optional TPM2.0 kit: CTM010	
Chipset	System on Chip	Power Supply	Dual 3000W 80 PLUS Titanium redundant power supply AC Input: 100-240V *The system power supply requires C19 power cord.	
Memory	12-Channel DDR5 RDIMM, 12 x DIMMs [EPYC 9005] Up to 6400 MT/s			
	[EPYC 9004] Up to 4800 MT/s	System Management	ASPEED® AST2600 Baseboard Management Controller GIGABYTE Management Console web interface	
LAN	$2 \times 10$ Gb/s LAN (1 × Broadcom <sup>®</sup> BCM57416), Support NCSI 1 × 10/100/1000 Mbps Management LAN	System Fans	6 x 80x80x80mm (17,500/15,000rpm) 2 x 80x80x80mm (18,700/15,100rpm)	
Video	Integrated in ASPEED® AST2600			
	- 1 x VGA port	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)	
Storage	Front hot-swap:	·	, , , , , , , , , , , , , , , , , , , ,	
	4 x 2.5" Gen5 NVMe/SATA <b>/SAS-4</b> <sup>[1]</sup> 4 x 2.5" SATA <b>/SAS-4</b> <sup>[1]</sup>	Packaging Content	1 x G294-Z21-AAP2 1 x CPU heatsink 4 x GPU power cables (12VHPWR, 250mm)	
	Internal M.2: 2 x M.2 (2280/22110), PCIe Gen5 x4			
	[1] SAS card is required to support SAS drives.		1 x L-shape Rail kit	
RAID	Require RAID add-in cards	Ordering Part Numbers	6NG294Z21DR000ACP2*	



