G494-ZB1-AAP2

HPC/AI Server - 4U DP 10 x PCIe Gen5 GPUs

NVIDIA. AMD EPYC

Key Features

- Supports up to 10 x Dual slot Gen5 GPUs
- Supports 8 x NVIDIA H200 NVL PCIe GPUs with 4-way NVLink bridges
- Dual AMD EPYC™ 9005/9004 Series Processors
- 12-Channel DDR5 RDIMM, 48 x DIMMs
- Dual ROM Architecture
- 2 x 1Gb/s LAN ports via Intel® I350-AM2
- 8 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 Gen3 x4 interface
- 10 x FHFL PCIe Gen5 x16 slots for GPUs
- 2 x LP PCIe Gen5 x16 slots on the front side
- 4 x 3000W 80 PLUS Titanium redundant power supplies

Applications

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

Specification

Dimensions	4U (448 x 176 x 880 mm)	PCIe Expansion Slots	**Rear:** 10 x FHFL PCIe Gen5 x16, for GPUs **Front:** 2 x LP PCIe Gen5 x16 *The system supports 8 x NVIDIA H200 NVL PCIe GPUs at 25°C ambient, arranged as two 4-GPU sets, each with a 4-way NVLink bridge. Support requires an optional fan kit. *The system is only validated with a uniform GPU model.
Motherboard	MZB3-G41		
CPU	AMD EPYC™ 9005 Series Processors AMD EPYC™ 9004 Series Processors Dual processor, cTDP up to 400W - At 30°C ambient, cTDP up to 500W		
OS Compatibility	OS Support List	I/O Ports	**Front:** 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, 48 x DIMMs [EPYC 9005] Up to 5200 MT/s (1DPC) Up to 4400 MT/s (1R 2DPC), 4000 MT/s (2R 2DPC) [EPYC 9004] Up to 4800 MT/s (1DPC), 3600 MT/s (2DPC)	Power Supply	4 x 3000W 80 PLUS Titanium redundant power supplies AC Input: 100-240V *The system power supply requires C19 power cord.
Lan	2 x 1Gb/s LAN (1 x Intel® I350-AM2), 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	4 x 40x40x28mm (25,000rpm) 12 x 60x60x56mm (23,000rpm)
Storage	**Front hot-swap:** 8 x 2.5" Gen5 NVMe/SATA/**SAS-4** [1] 4 x 2.5" SATA/**SAS-4** [1] **Internal M.2:** 2 x M.2 (2280/22110), PCIe Gen3 x4 [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 G494-ZB1-AAP2 2 x CPU fansinks 8 x GPU power cables (12VHPWR, 150mm) 2 x GPU power cables (12VHPWR, 350mm) 1 x L-shape Rail kit
RAID	Require RAID add-in cards		
		Optional Parts	- 8080 fan kit for NVIDIA H200 NVL: 6NG494ZB0S0000AAP21

Designed by

GIGA COMPUTING