

G494-SB1-AAP2

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



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 Intel® Xeon® 6700/6500-Series Processors
- 8-Channel DDR5 RDIMM / MRDIMM, 32 x DIMMs
- Dual ROM Architecture
- 2 x 10Gb/s LAN ports via Intel® X710-AT2
- 12 x 2.5" Gen5 NVMe/SATA/SAS-4 hot-swap bays
- 10 x FHFL PCIe Gen5 x16 slots for GPUs
- 2 x FHFL 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 FHFL 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	MSB4-G40	I/O Ports	Front: 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN
CPU	Intel® Xeon® 6 Processors - Intel® Xeon® 6700-Series Processors - Intel® Xeon® 6500-Series Processors Dual processor, TDP up to 350W	Backplane Board	PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s
OS Compatibility	OS Support List	TPM	1 x TPM header (SPI), Optional TPM2.0 kit: CTM012 1 x PRoT connector (only enabled on RoT SKU)
Socket	2 x LGA 4710 (Socket E2)	Power Supply	4 x 3000W 80 PLUS Titanium redundant power supplies AC Input: 100-240V *The system power supply requires C19 power cord.
Chipset	System on Chip	System Management	ASPEED® AST2600 Baseboard Management Controller GIGABYTE Management Console web interface
Memory	8-Channel DDR5 RDIMM/MRDIMM, 32 x DIMMs [RDIMM] Up to 6400 MT/s (1DPC), 5200 MT/s (2DPC) [MRDIMM] Up to 8000 MT/s ^[1] ^[1] MRDIMMs are only supported with Intel® Xeon® 6 Processors with P-cores and in a 1DPC configuration.	System Fans	4 x 40x40x28mm (25,000rpm) 12 x 60x60x56mm (23,000rpm)
Lan	2 x 10Gb/s LAN (1 x Intel® X710-AT2), Support NCSI 1 x 10/100/1000 Mbps Management LAN	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)
Video	Integrated in ASPEED® AST2600 - 1 x VGA port	Packaging Content	1 x G494-SB1-AAP2 2 x CPU fansinks 8 x GPU power cables (12VHPWR, 150mm) 2 x GPU power cables (12VHPWR, 350mm) 4 x Carriers 1 x L-shape Rail kit
Storage	Front hot-swap: 12 x 2.5" Gen5 NVMe/SATA/SAS-4 ^[1] ^[1] Storage card is required to support SATA and SAS drives.	Optional Parts	- 8080 fan kit for NVIDIA H200 NVL: 6NG494ZB0S0000AAP21
RAID	Require RAID add-in cards Onboard VROC key headers		



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

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