

G493-SB2-AAP1

HPC/AI Server - 4U DP 8 x PCIe Gen5 GPUs



Features

- Supports up to 8 x Dual slot Gen5 GPUs
- Dual 5th/4th Gen Intel® Xeon® Scalable Processors
- Dual Intel® Xeon® CPU Max Series
- 8-Channel DDR5 RDIMM, 32 x DIMMs
- Dual ROM Architecture
- 2 x 10Gb/s LAN ports via Intel® X710-AT2
- 12 x 3.5"/2.5" Gen5 NVMe/SATA/SAS-4 hot-swappable bays
- 1 x M.2 slot with PCIe Gen3 x1 interface
- 8 x FHFL PCIe Gen5 x16 slots for GPUs
- 4 x FHFL PCIe Gen5 x16 slots
- 2 x LP PCIe Gen5 x16 slots on the front side
- 3+1 3000W 80 PLUS Titanium redundant power supplies

Application

AI, AI Training, AI Inference, Visual Computing, HPC...

Specification

Dimensions	4U (W448 x H176 x D880 mm)	TPM	1 x TPM header with SPI interface (Optional TPM2.0 kit: CTM010)
Motherboard	MSB3-G40	Power Supply	3+1 3000W 80 PLUS Titanium redundant power supplies AC Input: 100-240V *The system power supply requires C19 power cord.
CPU	5th/4th Generation Intel® Xeon® Scalable Processors Intel® Xeon® CPU Max Series Dual processor, TDP up to 350W	System Management	ASPEED® AST2600 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
Socket	2 x LGA 4677 (Socket E)	OS Compatibility	Windows Server 2019 / 2022 RHEL 8.6 / 8.7 / 8.8 / 8.9 / 8.10 / 9.0 / 9.1 / 9.2 / 9.3 / 9.4 SLES 15 SP4 / SP5 / SP6 Ubuntu 22.04 / 22.04.1 / 22.04.2 / 22.04.3 / 22.04.4 / 24.04 LTS VMware ESXi 7.0 Update 3o / 8.0 Update 1, Update 2, Update 3 Citrix Hypervisor 8.2 LTSR CU1
Chipset	Intel® C741 Chipset	System Fans	12 x 60x60x38mm (23,000rpm)
Memory	32 x DIMM slots, 8-Channel DDR5 memory RDIMM up to 96GB; 3DS RDIMM up to 256GB supported Memory speed: Up to 5600 MT/s (1DPC), 4400 MT/s (2DPC)	Operating Properties	Operating temperature: 10°C to 35°C Operating humidity: 8-80% (non-condensing) Non-operating temperature: -40°C to 60°C Non-operating humidity: 20%-95% (non-condensing)
LAN	2 x 10Gb/s LAN ports (1 x Intel® X710-AT2) - Supported NCSI 1 x 10/100/1000 management LAN	Packaging Content	1 x G493-SB2-AAP1, 2 x CPU heatsinks, 6 x Carriers, 8 x GPU power cables (12VHPWR), 1 x L-shape Rail kit Packaging Dimensions: 1200 x 800 x 444 mm w/ pallet
Video	ASPEED® AST2600 Integrated 2D Graphic Adapter	Reference Numbers	Barebone package (5th/4th Gen): 6NG493SB2DR000ABP1* Barebone package (4th Gen): 6NG493SB2DR000AAP1* - L-shape Rail kit: 25HB2-A96100-K0R - CPU fansink: 25ST1-363204-C1R - GPU power cable (12VHPWR, 150mm): 25CRI-150004-Y4R - Power supply: 25EP0-23000C-D0S - C19 power cord 125V/15A (US): 25CP1-018000-Q0R (optional) - C19 power cord 250V/16A (EU): 25CP3-01830H-Q0R (optional) - C19 power cord 125V/15A (JP): 25CPA-01830B-Q0R (optional)
Storage	12 x 3.5"/2.5" Gen5 NVMe/SATA/SAS-4* hot-swappable bays *SAS card is required to support SAS drives. 1 x M.2 slot (M-key, PCIe Gen3 x1, supports 2280/22110)		
RAID	Intel® SATA RAID 0/1/10/5 Support optional RAID add-in cards		
Expansion Slots	8 x FHFL PCIe Gen5 x16 slots for GPUs (with PCIe switches) 4 x FHFL PCIe Gen5 x16 slots 2 x LP PCIe Gen5 x16 slots on the front side		
I/O Ports	Front: 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN Internal: 1 x TPM header, 1 x VROC connector		
Backplane Board	Speed and bandwidth: PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s		



Learn more at <https://www.GIGABYTE.com/enterprise>

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