GIGABYTE™

G894-SG1-AAX1

HPC/AI Server - Intel® Xeon® 6700/6500-Series Processors - 8U DP Intel® Gaudi® 3

Key Features

- Intel® Gaudi® 3 AI Accelerators
- 6 x 800 Gb/s OSFP with RDMA (RoCE v2) 24 x 200 Gb/s Ethernet for accelerator scale-out
- Dual Intel® Xeon® 6700/6500-Series Processors
- 8-Channel DDR5 RDIMM/MRDIMM per CPU with 32 x DIMMs
- 2 x 10 Gb/s LAN ports via Intel® X710-AT2
- 2 x M.2 slots with PCIe Gen5 x4 and x2
- 8 x 2.5" Gen5 NVMe hot-swap bays
- 4 x FHHL dual-slot PCIe x16 slots with Gen5 x16 lanes
- 8 x FHHL single-slot PCIe x16 slots with Gen5 x16 lanes
- 5+5 3000 W 80 PLUS Titanium redundant power supplies

Applications

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

Specification

Dimensions	8U (W447 x H351 x D923 mm)
Motherboard	MSB4-PE0
CPU	Intel® Xeon® 6 Processors - Intel® Xeon® 6700-Series Processors - Intel® Xeon® 6500-Series Processors Dual processors, TDP up to 350 W
OS Compatibility	OS Support List
Socket	2 x LGA 4710 (Socket E2)
Chipset	System on Chip
Memory	8-Channel DDR5 RDIMM/MRDIMM, 32 x DIMMs [RDIMM] Up to 6400 MT/s (1DPC), 6000 MT/s (2DPC) [MRDIMM] Up to 8000 MT/s [1] MRDIMMs are supported only on select Intel® Xeon® 6 processors with P-cores and only in a 1DPC configuration.
LAN	**Front:** 6 x 800 Gb/s OSFP with RDMA (RoCE v2) 24 x 200 Gb/s Ethernet, for accelerator scale-out 2 x 10 Gb/s LAN (1 x Intel® X710-AT2), Support NCSI 1 x 10/100/1000 Mb/s Management LAN **Rear:** 1 x 10/100/1000 Mb/s Management LAN
Video	Integrated in ASPEED® AST2600 - 1 x VGA port
Storage	**Front hot-swap:** 8 x 2.5" Gen5 NVMe **Internal M.2:** 1 x M.2 (2280/22110), PCIe Gen5 x4 1 x M.2 (2280/22110), PCIe Gen5 x2
Modular GPU	Intel® Gaudi® 3 AI accelerators - 8 x HL-325L OAM mezzanine cards - 1 x HLB-325 baseboard
PCIe Expansion Slots	4 x FHHL x16 (Gen5 x16), dual-slot 8 x FHHL x16 (Gen5 x16), single-slot
I/O Ports	**Front:** 6 x OSFP, 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN (default) **Rear:** 1 x MLAN
TPM	1 x TPM header (SPI), Optional TPM 2.0 kit: CTM012
Power Supply	5+5 3000 W 80 PLUS Titanium redundant power supplies AC Input: 115-240 V *The system power supply requires C19 power cord.
System Fans	Motherboard: 2 x 60x60x56mm 4 x 60x60x76mm PCIe slots: 4 x 80x80x56mm GPU tray: 16 x 80x80x80mm
Operating Properties	Operating: 10°C to 30°C, 8% to 80% (non-condensing) Non-operating: -40°C to 60°C, 20% to 95% (non-condensing)
Packaging Content	1 x G894-SG1-AAX1 2 x CPU heatsinks 4 x Carriers 1 x L-shape Rail kit
Ordering Part Numbers	6NG894SG1DR000AAX1*

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

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