

G894-SG1-AAX1

HPC/AI Server - Intel® Xeon® 6700/6500 -
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, 32 x DIMMs
- 2 x 10Gb/s LAN ports via Intel® X710-AT2
- 2 x M.2 slots with PCIe Gen5 x4 and x2 interface
- 8 x 2.5" Gen5 NVMe hot-swap bays
- 4 x FHHL dual-slot PCIe Gen5 x16 slots
- 8 x FHHL single-slot PCIe Gen5 x16 slots
- 5+5 3000W 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)	Modular GPU	Intel® Gaudi® 3 AI accelerators - 8 x HL-325L OAM mezzanine cards - 1 x HLB-325 baseboard
Motherboard	MSB4-PE0	PCIe Expansion Slots	4 x FHHL dual-slot PCIe Gen5 x16 8 x FHHL single-slot PCIe Gen5 x16
CPU	Intel® Xeon® 6 Processors - Intel® Xeon® 6700-Series Processors - Intel® Xeon® 6500-Series Processors Dual processor, TDP up to 350W	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
Socket	2 x LGA 4710	TPM	1 x TPM header (SPI), Optional TPM2.0 kit: CTM012
Chipset	System on Chip	Power Supply	5+5 3000W 80 PLUS Titanium redundant power supplies AC Input: 115-240V *The system power supply requires C19 power cord.
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] MRDIMMs are only supported with Intel® Xeon® 6 Processors with P-cores and in a 1DPC configuration.	System Fans	Motherboard: 2 x 60x60x56mm 4 x 60x60x76mm PCIe slots: 4 x 80x80x56mm GPU tray: 16 x 80x80x80mm
LAN	Front: 6 x 800 Gb/s OSFP with RDMA (RoCE v2) 24 x 200 Gb/s Ethernet, for accelerator scale-out 2 x 10Gb/s LAN (1 x Intel® X710-AT2), Support NCSI 1 x 10/100/1000 Mbps Management LAN Rear: 1 x 10/100/1000 Mbps Management LAN	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)
Video	Integrated in ASPEED® AST2600 - 1 x VGA port	Packaging Content	1 x G894-SG1-AAX1 2 x CPU heatsinks 4 x Carriers 1 x L-shape Rail kit
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	Ordering Part Numbers	6NG894SG1DR000AAX1*



Learn more at: <https://www.gigabyte.com/Enterprise>
* All specifications are subject to change without notice. Please visit our website for the latest information.
* All trademarks and logos are the properties of their respective holders.
© 2026 Giga Computing Technology Co., Ltd. All rights reserved.
Last updated: Jan 2, 2026

Designed by

