GIGABYTE™

H174-A80-LAS1

High Density Server - 1U 2-Node DP 4-Bay Gen5 NVMe/SATA/SAS-4 DLC

intel XEON · CoolIT systems
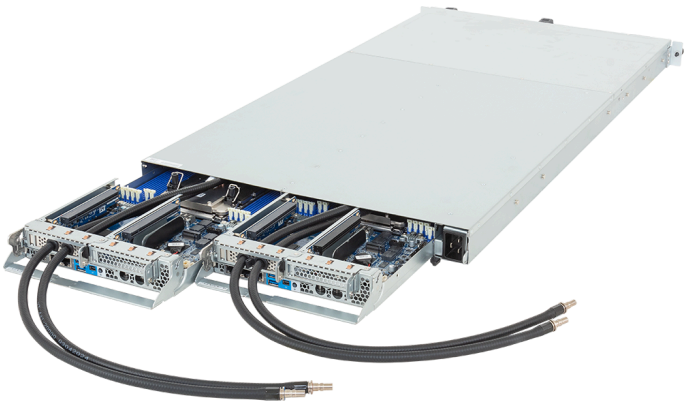
Key Features

- Direct liquid cooling solution with leak detection
- 1U 2-node rear access server system
- Dual Intel® Xeon® 6900-Series Processors per node
- 12-Channel DDR5 RDIMM / MRDIMM, 24 x DIMMs per node
- Dual ROM Architecture
- 4 x 1Gb/s LAN ports via Intel® I350-AM2
- 4 x 2.5" Gen5 NVMe/SATA/SAS-4 hot-swap bays
- 2 x LP PCIe Gen5 x16 slots
- 2 x LP PCIe Gen5 x16 slots **(optional)**
- 1+1 3200W 80 PLUS Titanium redundant power supplies

Applications

High-Performance Computing Server, High Converged Server, Servers for Hybrid/Private Cloud...

Specification

Dimensions	1U 2-Node - Rear access (W440 x H43.4 x D856 mm)	PCIe Expansion Slots	2 x LP PCIe Gen5 x16 2 x LP PCIe Gen5 x16 **(optional)** [1] [1] Enabling the slots requires specific cold plate loops and tubes relocation.
Motherboard	MA84-HD0		
CPU	Intel® Xeon® 6 Processors - Intel® Xeon® 6900-Series Processors Dual processor per node, TDP up to 500W	I/O Ports	**Front:** 2 x MLAN, 1 x CMC status LED **Rear:** 4 x USB 3.2 Gen1, 2 x Mini-DP, 4 x RJ45, 2 x MLAN
OS Compatibility	OS Support List		
Socket	4 x LGA 7529 (Socket BR)	Backplane Board	PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s
Chipset	System on Chip	TPM	2 x TPM headers (SPI), Optional TPM2.0 kit: CTM012 2 x PRoT connectors (only enabled on RoT SKU)
Memory	12-Channel DDR5 RDIMM/MRDIMM, 48 x DIMMs [RDIMM] Up to 6400 MT/s [MRDIMM] Up to 8800 MT/s [1] [1] MRDIMMs are only supported with Intel® Xeon® 6 Processors with P-cores.	Power Supply	1+1 3200W 80 PLUS Titanium redundant power supplies AC Input: 100-240V *The system power supply requires C19 power cord.
		System Management	ASPEED® AST2600 Baseboard Management Controller ASPEED® AST2620 Chassis Management Controller GIGABYTE Management Console web interface
LAN	4 x 1Gb/s LAN (2 x Intel® I350-AM2), Support NCSI 2 x 10/100/1000 Mbps Management LAN		
Video	Integrated in ASPEED® AST2600 x 2 - 2 x Mini-DP	System Fans	6 x 40x40x28mm (34,000rpm)
Storage	**Front hot-swap:** 4 x 2.5" Gen5 NVMe/**SATA/SAS-4** [1] [1] Storage card is required to support SATA and SAS drives.	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 H174-A80-LAS1 2 x CoolIT CPU cold plate loops 1 x Mini-DP to D-Sub cable 4 x Carriers 1 x 3-Section Rail kit
RAID	Require RAID add-in cards Onboard VROC key header		
		Ordering Part Numbers	6NH174A80DR000LAS1*