

# H173-Z80-IAS1 (Rev. 3.x)

High Density Server - AMD EPYC™ 9005/9004 -  
1U 2-Node DP 4-Bay Gen5 NVMe/SATA/SAS-4 Immersion



## Key Features

- Immersion Cooling Server
- 1U 2-node server system
- Dual AMD EPYC™ 9005/9004 Series Processors per node
- 12-Channel DDR5 RDIMM, 24 x DIMMs per node
- 4 x 1 Gb/s LAN ports via Intel® I350-AM2
- 4 x 2.5" Gen5 NVMe/SATA/SAS-4 bays
- 2 x M.2 PCIe Gen4 x4 **(optional)**
- 2 x LP PCIe Gen5 x16
- 2 x OCP NIC 3.0 PCIe Gen5 x16
- 1+1 3200 W 80 PLUS Titanium redundant power supplies

## Applications

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

## Specification

<b>Dimensions</b>	1U 2-Node (W440 x H43.4 x D855 mm)	<b>PCIe Expansion Slots</b>	2 x LP PCIe Gen5 x16 2 x OCP NIC 3.0 PCIe Gen5 x16, Support NCSI
<b>Motherboard</b>	MZ83-HD2	<b>I/O Ports</b>	<b>Top:</b> 4 x USB 3.2 Gen1, 2 x Mini-DP, 4 x RJ45, 2 x MLAN
<b>CPU</b>	AMD EPYC™ 9005 Series Processors AMD EPYC™ 9004 Series Processors Dual processor per node, cTDP up to 500 W	<b>Backplane Board</b>	PCIe Gen5 x4 or SATA 6 Gb/s or SAS-4 24 Gb/s
<b>OS Compatibility</b>	<a href="#">OS Support List</a>	<b>TPM</b>	2 x TPM headers (SPI), Optional TPM 2.0 kit: CTM010
<b>Socket</b>	4 x LGA 6096 (Socket SP5)	<b>Power Supply</b>	1+1 3200 W 80 PLUS Titanium redundant power supplies AC Input: 100-240 V  *The system power supply requires C19 power cord.
<b>Chipset</b>	System on Chip	<b>System Management</b>	ASPEED® AST2600 Baseboard Management Controller ASPEED® AST2620 Chassis Management Controller GIGABYTE Management Console web interface
<b>Memory</b>	12-Channel DDR5 RDIMM, 48 x DIMMs [EPYC 9005] Up to 6400 MT/s [EPYC 9004] Up to 4800 MT/s	<b>Operating Properties</b>	Operating coolant temperature: 20°C to 30°C Non-operating: -40°C to 60°C, 20% to 95% (non-condensing)
<b>LAN</b>	4 x 1 Gb/s LAN (2 x Intel® I350-AM2), Support NCSI 2 x 10/100/1000 Mb/s Management LAN	<b>Packaging Content</b>	1 x H173-Z80-IAS1 4 x CPU heatsinks 1 x Mini-DP to D-Sub cable
<b>Video</b>	Integrated in ASPEED® AST2600 x 2 - 2 x Mini-DP	<b>Ordering Part Numbers</b>	6NH173Z80DR000ICS1*
<b>Storage</b>	<b>Bottom:</b> 4 x 2.5" Gen5 NVMe/SATA/SAS-4 [1] <b>Optional internal M.2:</b> 2 x M.2 (2280/22110), PCIe Gen4 x4  [1] Optional cables are required to enable SATA and SAS drives. Support for SAS drives requires an additional SAS card.	<b>Optional Parts</b>	- M.2 expansion card - CMTP192: 6NH273Z82S1000IAW11 <b>(12-in-1)</b>
<b>RAID</b>	Requires RAID add-in cards		



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

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