GIGABYTE™

TO16-A82-LA01

ORV3 Server - Intel® Xeon® 6900E+/6900-Series Processors - 1OU 2-Node DP 8-Bay E3.S Gen5 NVMe DLC

Key Features

- Direct liquid cooling solution with leak detection
- 1OU 2-node front access server system
- Dual Intel® Xeon® 6900E+/6900-Series processors per node
- 12-Channel DDR5 RDIMM/MRDIMM per CPU with 24 x DIMMs per node
- 4 x E3.S Gen5 NVMe hot-swap bays per node
- 2 x LP PCIe x16 slots with Gen5 x16 lanes per node
- 48 V to 54 V DC bus bar power solution

Specification

Dimensions	1OU 2-Node (W537 x H45.2 x D928.2 mm)
Motherboard	MA84-HD3
CPU	Intel® Xeon® 6+ processors - Intel® Xeon® 6900E+ processors Intel® Xeon® 6 processors - Intel® Xeon® 6900-Series processors [DLC] Dual processors per node, TDP up to 500 W
Socket	4 x LGA 7529 (Socket BR)
OS Compatibility	OS Support List
Chipset	System on Chip
Memory	12-Channel DDR5 RDIMM/MRDIMM, 24 x DIMMs **Intel Xeon 6900E+:** [RDIMM] Up to 8000 MT/s **Intel Xeon 6900-series:** [RDIMM] Up to 6400 MT/s [MRDIMM] Up to 8800 MT/s [1] [1] MRDIMMs are supported only on select Intel® Xeon® 6 processors with P-cores.
LAN	**Front:** 1 x 10/100/1000 Mb/s Management LAN per node
Video	Integrated in ASPEED® AST2600 - 1 x Mini-DP per node

Storage	**Front hot-swap:** 4 x E3.S Gen5 NVMe per node
PCIe Expansion Slots	2 x LP x16 (Gen5 x16) per node
I/O Ports	**Front (per node):** 2 x USB 3.2 Gen1, 1 x Mini-DP, 1 x MLAN
TPM	1 x TPM header (SPI) per node, Optional TPM 2.0 kit: CTM012
System Fans	4 x 40x40x56mm per node
Liquid Cooling Interface	Connector type: UQD06 Blind mate: Not supported Hose length: Not included *Requires additional server-to-manifold UQD hoses.
Operating Properties	Operating: 10°C to 35°C, 8% to 80% (non-condensing) Non-operating: -40°C to 60°C, 20% to 95% (non-condensing) *To ensure system stability and prevent condensation, when the relative humidity exceeds 50%, the coolant inlet temperature must be higher than the dry-bulb temperature and it should not exceed 45°C.
Packaging Content	1 x TO16-A82-LA01 2 x CPU cold plate loops 1 x Mini-DP to D-Sub cable 4 x CPU carriers
Ordering Part Numbers	6NTO16A82DR000LA01*

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

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