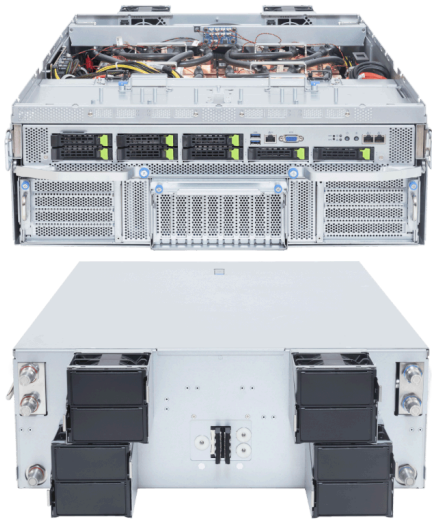


TO46-ZX1-LA04 (Rev. 3.x)

ORV3 GPU Server - AMD EPYC™ 9005/9004 Server Processors -
4OU, DP, AMD Instinct™ MI355X, DLC



Key Features

- Liquid-cooled 8 x AMD Instinct™ MI355X OAM GPUs
- CPU+GPU direct liquid cooling solution with leak detection
- Dual AMD EPYC™ 9005/9004 Server processors
- 12-Channel liquid-cooled DDR5 RDIMM per CPU with 24 x DIMMs
- 2 x 10 Gb/s LAN ports via Intel® X710-AT2
- 2 x M.2 slots with PCIe Gen3 x4 and x1
- 8 x 2.5" Gen5 NVMe hot-swap bays
- 4 x FHHL PCIe x16 slots with Gen5 x16 lanes
- 8 x LP PCIe x16 slots with Gen5 x16 lanes
- 48 V to 54 V DC Bus Bar power solution

Specification

Dimensions	40U (W537 x H189.2 x D840 mm)	Modular GPU	[DLC] 8 x AMD Instinct™ MI355X OAM GPUs
Motherboard	MZB3-PE1	PCIe Expansion Slots	4 x FHHL x16 (Gen5 x16) 8 x LP x16 (Gen5 x16)
CPU	AMD EPYC™ 9005 Server processors AMD EPYC™ 9004 Server processors [DLC] Dual processors, cTDP up to 500 W	I/O Ports	Front: 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN
Socket	2 x LGA 6096 (Socket SP5)	TPM	1 x TPM header (SPI), Optional TPM 2.0 kit: CTM012
Chipset	Integrated into SoC	System Fans	2 x 80x80x38mm 2 x 80x80x56mm 4 x 92x92x76mm
Memory	12-Channel DDR5 RDIMM, 24 x DIMMs [EPYC 9005] Up to 6400 MT/s [EPYC 9004] Up to 4800 MT/s	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.
LAN	2 x 10 Gb/s LAN (1 x Intel® X710-AT2), Support NCSI 1 x Management LAN	Packaging Content	1 x TO46-ZX1-LA04 1 x L-shape Rail kit
Video	Integrated in ASPEED® AST2600 - 1 x VGA port	Ordering Part Numbers	6NTO46ZX1DR000LC04*
Storage	Front hot-swap: 8 x 2.5" Gen5 NVMe Internal M.2: 1 x M.2 (2280/22110), PCIe Gen3 x4 1 x M.2 (2280/22110), PCIe Gen3 x1		



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: Oct 12, 2026