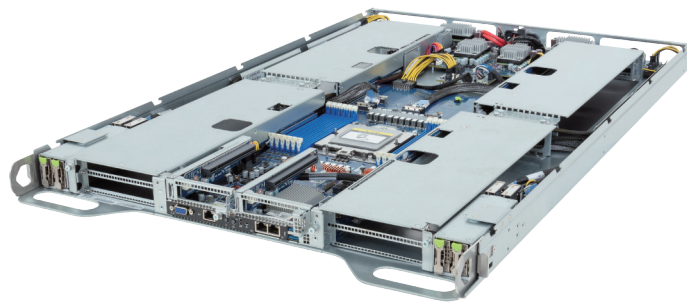


## T015-Z20-IA01

ORv3 GPU Server - 10U UP 4 x GPUs



### Key Features

- Immersion Cooling Server
- Supports up to 4 x Dual slot Gen5 GPUs
- Single AMD EPYC™ 9005/9004 Series Processors
- 12-Channel DDR5 RDIMM, 12 x DIMMs
- Dual ROM Architecture
- 2 x 10Gb/s LAN ports via Broadcom® BCM57416
- 4 x 15mm E1.S NVMe hot-swap bays
- 2 x M.2 slots with PCIe Gen5 x4 interface
- 2 x M.2 slots with SATA interface (optional)
- 4 x PCIe Gen5 x16 or 8 x PCIe Gen5 x8 FHFL slots for GPUs
- 2 x LP PCIe Gen5 x16 slots
- 48V DC Bus Bar power solution

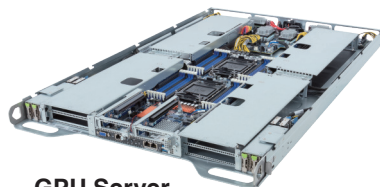
### GIGABYTE OCP ORV3 Compliant Solutions

GIGABYTE is an active member of the OCP, regularly attending the OCP's annual summits and continuously designing and releasing new compute, storage and GPU server hardware based on the OCP Open Rack Standard specifications and providing the best performing mezzanine cards for your OCP solution. GIGABYTE's latest OCP server product line is based on OCP Open Rack V3 specification. The products are designed for a 21" OCP rack and feature a separate PSU system, with power supplied to each server node by a bus-bar system running along the rear of the rack.

Compute Node



GPU Server



JBOD



OCP 21" Rack



### GIGABYTE OCP ORV3 Compliant Solutions Advantages

#### Efficient Rack Density

- Optimal design (20U 2nodes / 20U 3nodes) - balanced consideration between density and power consumption.

#### Thermal Optimization

- Best thermal consideration to develop Rack and Nodes based on Cold Aisle/Hot Aisle concept.
- Reduce power consumption of cooling.

#### Greater Power Efficiency

- Low PUE helps reduce data center operating expense.
- Central power shelf design to enhance power efficiency and optimize power consumption.

#### Easy Maintenance

- Easier maintenance in front cold aisle instead of hot aisle.
- Tool-less design for easy replacement and repair.
- Less PSU quantities in whole rack to minimize maintenance efforts.

#### Higher MTBF

- Centralizing power supplies and removing unnecessary components to enhance MTBF (Mean Time Between Failures).
- Avoids system downtime caused by component failure and minimizes maintenance efforts.

## The Future of Open Source Ecosystem

The Open Compute Project (OCP) is a collaborative community focused on redesigning hardware technology to efficiently support the growing demands on compute infrastructure. In 2011, the OCP Foundation was initiated with a mission to apply the benefits of open source and open collaboration to hardware and rapidly increase the pace of innovation. Its collaboration model is now being widely applied in fields like data centers, telecom industry, and edge infrastructure.



## Flexible Node Configuration

GIGABYTE's OCP Open Rack Version 3 compliant solutions maintain the cost-efficient designs created in version 2, yet these new solutions provide even more power to each node. GIGABYTE TO23-BT0, a 2OU node tray, supports three nodes and up to six CPUs in a single tray. And a similar node tray, TO25-BT0, is designed for more PCIe expansion slots with each tray supporting up to four dual-slot GPUs or eight full-height full-length single slot cards for growing HPC and AI needs in data centers.



## Specification

<b>Dimensions</b>	1OU (W537 x H45 x D805.7 mm)	<b>RAID</b>	N/A
<b>Open Rack Version</b>	ORv3	<b>Expansion Slots</b>	4 x FHFL PCIe Gen5 x16 or 8 x FHFL PCIe Gen5 x8 slots for GPUs 2 x LP PCIe Gen5 x16 slots
<b>Motherboard</b>	MZ23-G20	<b>Top I/O</b>	2 x USB 3.2 Gen1 1 x VGA 2 x RJ45 1 x MLAN
<b>CPU</b>	AMD EPYC™ 9005 Series Processors AMD EPYC™ 9004 Series Processors Single processor, cTDP up to 400W	<b>Security Modules</b>	1 x TPM header with SPI interface Optional TPM2.0 kit: CTM010
<b>Socket</b>	1 x LGA 6096 (Socket SP5)	<b>System Management</b>	ASPEED® AST2600 Baseboard Management Controller GIGABYTE Management Console web interface
<b>Chipset</b>	System on Chip	<b>Packaging Content</b>	1 x TO15-Z20-IA01 1 x CPU heatsink 4 x GPU power cables (12VHPWR, 550mm) Packaging Dimensions: 1095 x 709 x 235 mm
<b>Memory</b>	12-Channel DDR5 RDIMM, 12 x DIMMs [EPYC 9005] Up to 6000 MT/s [EPYC 9004] Up to 4800 MT/s	<b>OS Support</b>	Windows Server, SUSE Linux Enterprise server, Red Hat Enterprise Linux server, Ubuntu, VMware ESXi, Citrix Hypervisor
<b>LAN</b>	2 x 10Gb/s LAN (1 x Broadcom® BCM57416) - Support NCSI function 1 x 10/100/1000 management LAN	<b>Bus Bars</b>	1 x 48V Bus Bar
<b>Video</b>	Integrated in ASPEED® AST2600 - 1 x VGA port	<b>Part Numbers</b>	Barebone package: 6NTO15Z20DR000IC01* Optional parts: - M.2 expansion card - COMTP61: 9COMTP61NR-00* - RMA packaging: 6NTO15Z20SR-RMA-I100
<b>Storage</b>	Top hot-swap: 4 x 15mm E1.S NVMe Internal M.2: 2 x M.2 (22110), PCIe Gen5 x4 Optional internal M.2: 2 x M.2 (2280/22110), SATA		



Learn more at <https://www.GIGABYTE.com/enterprise>

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