DATASHEET

OCtoPus 2GG

OCP READY DIRECT LIQUID COOLING PLATFORM

1OU 2 nodes

No contractual

Key Features

- 21-inch 1 OpenU 2 Nodes
- Dual AMD EPYC™ 9004 Socket SP5 per node
- 24x DDR5 @ 4800MHz Per node
- 2x PCIe 5.0 x16
  1x OCP 3.0
- Direct liquid cooling

AMD EPYC™ 9004 Series Processors family

The AMD EPYC™ 9004 Series Processors family also offers industry-leading security features, including Secure Memory Encryption (SME) and Secure Encrypted Virtualization (SEV), providing robust protection for your critical data and applications. Moreover, the processors are compatible with the latest PCIe 5.0 standard, enabling faster data transfer rates and reducing latency to further enhance your computing experience.

Optimize efficiency with our 1U 2-node system: direct on-chip liquid cooling and OCP-inspired power distribution

Direct on-chip liquid cooling: precision and durability

Enjoy precise cooling with on-chip liquid cooling, eliminating thermal bottlenecks for long-lasting peak performance.
Optimize space with our 1U form factor, seamlessly integrating liquid cooling for superior efficiency without sacrificing power.
Contribute to sustainable development by reducing energy consumption, thanks to lower fan speeds and reduced overall power requirements.

OCP-inspired power distribution: streamlined and reliable

Adopt OCP principles with our bar-type power distribution, offering scalable and flexible power supply.
Simplify infrastructure by reducing complexity, minimizing cable clutter and improving overall system reliability.
Guarantee consistent performance with a standardized power supply, reducing the risk of breakdowns and downtime.

Synergistic benefits: one step ahead
Maximize computing power while minimizing environmental impact and optimizing data center space.
Achieve cost-effective operations thanks to a harmonious blend of efficient cooling and standard power supply.

Enhance your data center's capabilities with a platform that combines state-of-the-art cooling technology with OCP-inspired power distribution.

Designed for the Octorack 42SL, our 2 Node 1U system guarantees a tailored, high-performance solution, perfectly aligned with your data center needs.

Learn more about OCtoRack 42SL >>

2crsi.com | contact@2crsi.com

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SPECIFICIATIONS

system	**Model**	OCtoPus 2GG
	Form factor	21-inch 1OpenU
	Dimension	880 x 537 x 43mm (D x W x H)
	Cooling technology	Direct liquid cooling with OCtoRack 42SL
Storage	**Internal type per node**	1x M.2 NVMe PCie 4.0 x4 2280/22110 (CPU0)
	External type per node	Optional 4x 9.5mm E1.S NVMe hot-swappable bays (Gen5 x16 link from CPU0)* * occupies a PCIe slot
	RAID controler	MegaRAID 9660-16i (Gen4) Tri-Mode RAID Adapter (Optional)
Motherboard	**CPU per node**	Dual socket SP5 (LGA 6096) AMD EPYC™ 9xx4 Genoa, Bergamo and Genoa-X with AMD 3D V-Cache™ Technology Series Processor families up to 128-core, 256 threads per processor, cTDP up to 400W
	Chipset	System on chip
	Expansion slots per node	2x PCIe x16 (Gen5 x16 link), LP, HL 1x OCP NIC 3.0 (Gen5 x16 link), support NCSI function
	TPM per node	1x TPM header with SPI interface for TPM 2.0 module optional
	BMC	Aspeed 2600
Memory	**Total slots per node**	24 (12-channel)
	Total Capacity per node	RDIMM modules up to 96GB supported 3DS RDIMM modules up to 256GB supported
	Memory type	RDIMM: 4800 MHz (1DPC) RDIMM 1R: 4000 MHz (2DPC) RDIMM 2R: 3600 MHz (2DPC) RDIMM-3DS: 4800 MHz (1DPC); 3600 MHz (2DPC)
Network	**Onboard per node**	1x Realtek RTL8211E for dedicated management GLAN 2x 1GbE LAN ports (1 x Intel® i350-AM2), support NCSI
	OCP 3.0 Options per node	2x 25GbE (SFP28) 2x 100GbE (QSFP56 / QSFP28) 2x 200GbE (QSFP56)
I/O	**Front per node**	2x USB 3.2 Gen1 type A 1x mini display port 2x RJ45 1x RJ45 Management port
	Switch / LED per node	1x Power button with LED 1x ID button with LED 1x Status LED 1x System reset button
Management solution	**Software**	WebGUI, IPMI 2.0 and RESTful APIs (Redfish)
	Remote management	iKVM module, Remote Update (OoB), Platform Firmware Resilience
Power supply	**Type**	12V DC Busbar connector compliant to OCP ORv1 and ORv2 standard

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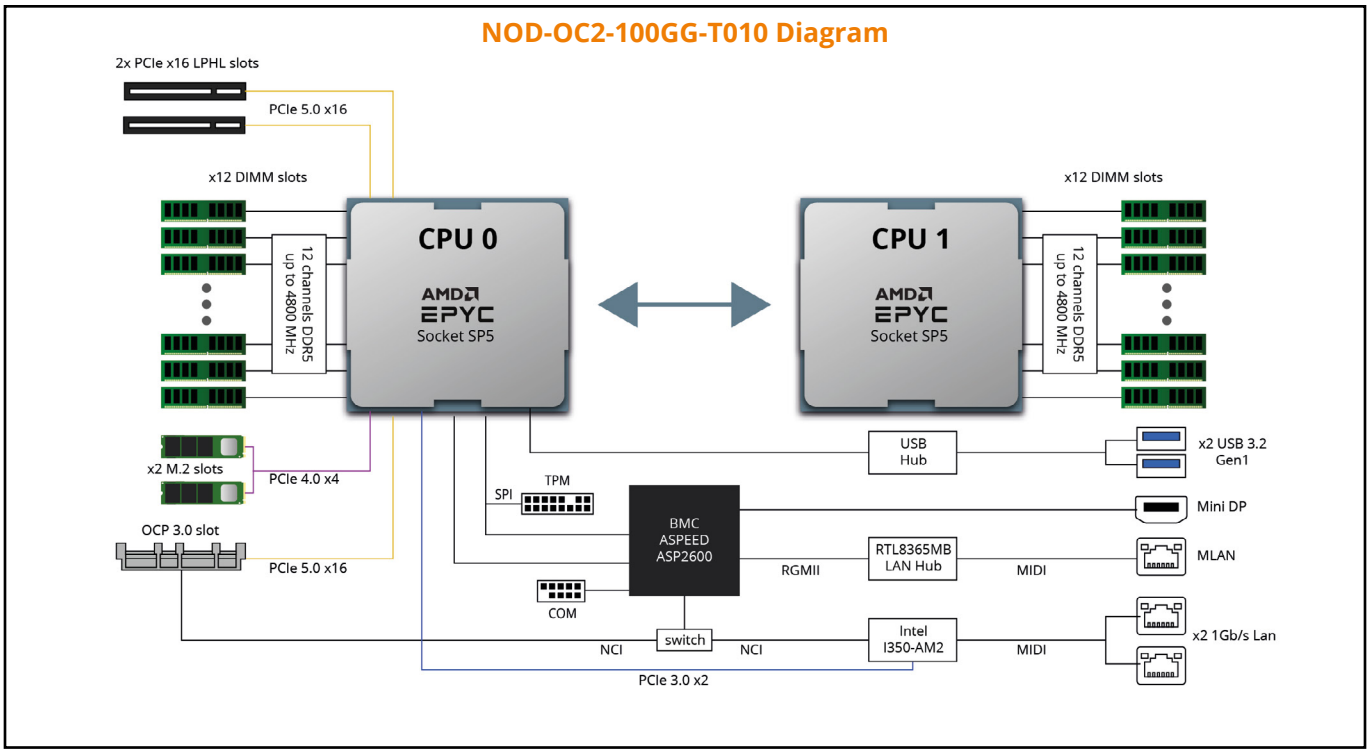
SKU based on options

This product is available with different options.
This table provides valuable information about the features and capabilities associated with each SKU (stock keeping unit), enabling potential customers and internal stakeholders to make informed decisions. Each SKU has been carefully classified according to the options available, providing a clear picture of the functionality associated with each variant.

SKU	4xE1.S cage	Spec
NOD-OC2-100GG-T020	No	1x M.2 NVMe PCie 5.0 x2 2280/22110 (internal) 2x PCIe 5.0 x16 for HH-HL cards (Front) 1x OCP3.0 PCIe 5.0x16 (front)
NOD-OC2-100GG-T021	**Yes**	1x M.2 NVMe PCie 5.0 x2 2280/22110 (internal) 1x PCIe 5.0 x16 for HH-HL cards (Front) 1x OCP3.0 PCIe 5.0x16 (front) 4x 9.5mm E1.S NVMe hot-swappable bays (Gen5 x16 link from CPU0)

NOD-OC2-100GG-T010 Diagram



NOD-OC2-100GG-T011 Diagram