

OCtoPus 3R

Rev. 1.0

SERVER BASED ON OCP PRINCIPLES

21-inch - 10U - 3 Nodes - 3 CPUs chassis - Front IO

Key Features



21-inch - 10U / 3 CPUs
- Front IO



Single AMD Ryzen™
3/4/5xxx Series
Processors families
Socket AM4



12x DDR4 @ 3200MHz



PCIe lanes Gen.4



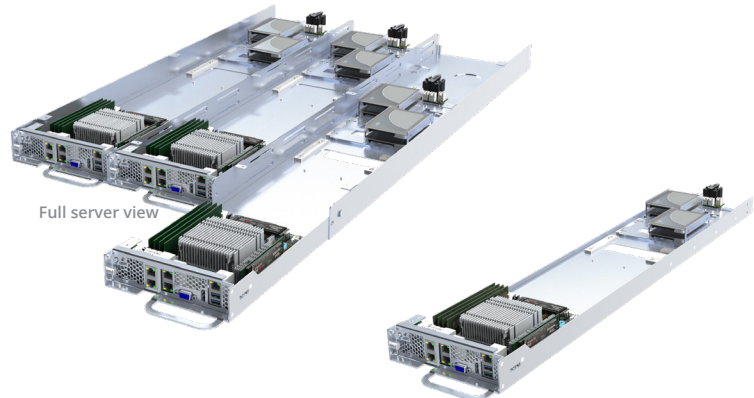
OCP technology 12V
DC



IPMI with ASPEED®
AST2500



Air Cooling
Immersion Cooling



Full server view

View of a single node

More performance, more innovation, more choice

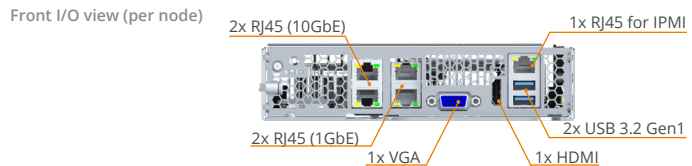
The speed and power of AMD Ryzen™ processors ushered in a new era of performance, delivering generations of unrivaled architecture and a robust ecosystem. AMD Ryzen™ processors continue to break boundaries in innovation for gamers and content creators worldwide.

Certified by the Solar Impulse Foundation

To address sustainability challenges while enabling economic growth Bertrand Piccard, serial explorer, initiator and visionary behind Solar Impulse has identified with its Foundation, 1000+ clean and profitable solutions including the OCtoPus server solution since October 2021.

The Latest Technologies

AMD Ryzen™ processors have all the best features to keep you in the game. With great processing power comes the bleeding-edge technologies to support. All AMD Ryzen™ Series processors come with a full suite of technologies designed to elevate your processing power.



Server overview



SPECIFICATIONS

System	Model	OCToPus 3R (Rev. 1.0)
	Form Factor	21-inch 1OpenU
	Nodes	3 CPUs
	Dimension	845 x 537 x 43mm 33"x 21" x 1.7"
Storage	Internal type per node	Up to 3x HDD 3.5" or 3x HDD/ SSD 2.5" 1x 1x M2 NVMe (PCIe 4.0x4) 22210*/2280 form factor (CPU 0) 1x M2 NVMe (PCIe 3.0x2) 2280 form factor* *need depopulating BMC_SMB and IPMB header
Motherboard	CPU	Per node: 1x Socket AM4 (PGA 1331) AMD Ryzen™ 3xxx/4xxx/4xxxG/5xxx/5xxxG-Series Processors families (105W)
	Chipset	AMD B550
	Expansion slots	Per node: 1x OCLink (PCIe Gen.4 x4)
	BMC	Aspeed® AST2500
Memory	Total Slots	12 (4-channel, 4-UDIMM DDR4 per node)
	Capacity per DIMM	Up to 32GB UDIMM modules supported
	Memory Speed	Up to 3200 MHz
Network		Per node: 1x Realtek RTL8211E for dedicated management GLAN (IPMI) 2x RJ45 10GLAN by Intel® X710-AT2 2x RJ45 1GLAN by Intel® I210
Front I/O per node	Ports	Per node: 2x USB 3.2 Gen1 (Type-A) 1x VGA 1x HDMI 2x RJ45 (10GbE) 2x RJ45 (1GbE) 1x RJ45 dedicated IPMI
	Switch/LED	Per node: 1x Power button with LED 1x UID button with LED 5x LAN Status LED 5x LAN Speed LED
Management Solution	Out of Band Remote Management	BMC Remote control based on Aspeed® AST2500 remote management controller (Power Control Configuration, Chassis Identify, Boot Option, iKVM, BMC Account Configuration)
Power Input	Type	OCP technology 12V DC