

OCtoPus 3H

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 Intel® XEON®
E-23xx Series
Processors family
Socket H5



12x DDR4 @ 3200MHz



PCIe lanes Gen.4



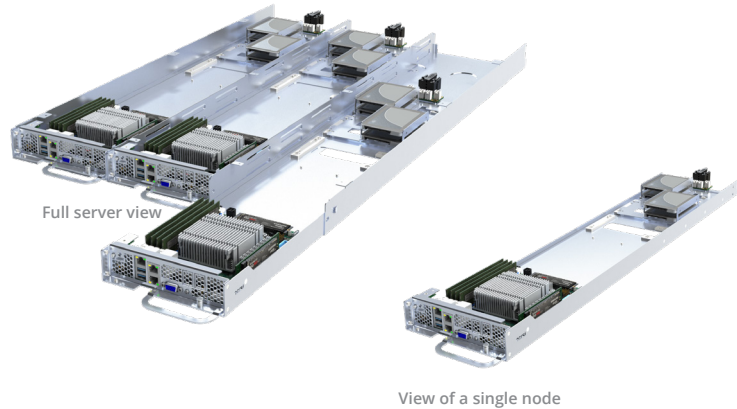
OCP technology 12V
DC



IPMI with ASPEED®
AST2500



Air Cooling
Immersion Cooling



Performance Made Flexible

3rd Gen Intel® Xeon® Scalable processors offer a balanced architecture with built-in acceleration and advanced security capabilities, designed through decades of innovation for the most in-demand workload requirements.

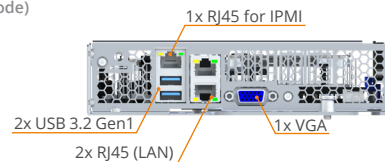
Certified by the Solar Impulse Foundation

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.

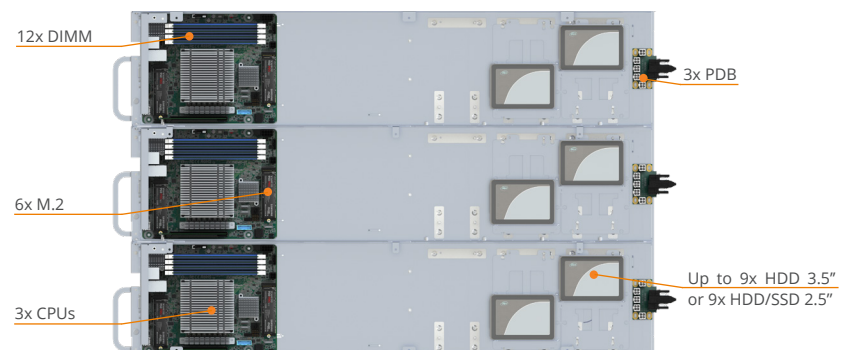
Internet of Things (IoT) Made Flexible

This processor family offers enhanced gen-over-gen performance and built-in AI acceleration for faster analytics, processing of more images or video streams, and more powerful AI in edge and IoT deployments. Built-in hardwarebased security protects critical code and private data from tampering or interception by malware or hackers, a particular challenge in dispersed edge, industrial, or IoT deployments.

Front I/O view (per node)



Server overview



SPECIFICATIONS

System	Model	OCToPus 3H (Rev. 1)
	Form Factor	21-inch 1OpenU
	Nodes	3 CPUs
	Dimension	845 x 537 x 43mm 33"x 21" x 1.7"
Storage	Internal type	Up to 3x HDD 3.5" or 3x HDD/SSD 2.5" per node
Motherboard	CPU	Per node: 1x Socket H5 (LGA 1200) Intel® XEON® E-23xx Series Processors families (95W)
	Chipset	Intel® C246
	Expansion slots	Per node: 2x OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s) 1x OCuLink (PCIe3.0 x4)
	M.2 connector	1x M.2 NVMe (PCIe Gen.4 x4) 2280 form factor (CPU) 1x M.2 NVMe (PCIe Gen.3x2) 2280 form factor (PCH)
	BMC	Aspeed® AST2500
Memory	Total Slots	12 (2-channel, 4-UDIMM DDR4 per CPU)
	Capacity per DIMM	Maximum up to 32GB per node
	Speed	Up to 3200MHz
Network		Per node: 1x Realtek RTL8211E for dedicated management GLAN (IPMI) 2x RJ45 10GLAN by Intel® X710-AT2
Front I/O per node	Ports	Per node: 2x USB 3.2 Gen1 (Type-A) 1x VGA 2x RJ45 (10GbE) 1x RJ45 dedicated IPMI
	Switch/LED	Per node: 1x Power button with LED 1x UID button with LED 3x LAN Status LED 3x 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