

OCtoPus 1.8EE

SERVER BASED ON OCP PRINCIPLES

21-inch - 2OpenU - 2 CPUs and 8 GPUs - Front IO

Key Features



21-inch - 2OU / 2 CPUs
/ 8 GPUs - Front IO



Dual AMD EPYC™ 7xx2
and 7xx3 Series
processors family
Socket SP3



16x DDR4 @ 3200MHz



8x PCIe 4.0 x8 +
2x PCIe 4.0 x16 HL LP



OCP technology
12V DC



IPMI / iKVM with
ASPEED® AST2500



Immersion Cooling

Front view



AMD EPYC™ Series Processors family

The OCtoPus 1.8E was built to elevate your business productivity with AMD EPYC™ - the world's highest performing x86 server processors. With a broad and growing ecosystem, AMD EPYC™ Processors deliver the highest per-core performance to ensure fast time-to-value for your business.

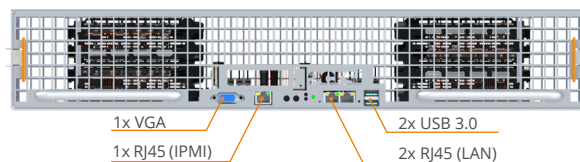
Scale out and scale up

Scaling is critical to HPC applications. AMD EPYC™ 7xx3 Series Processors provide high bandwidth between nodes with support for PCIe Gen4 enabled network devices and accelerators. AMD 3rd Generation processors help HPC workloads scale across on-premise clusters and bring HPC-level performance to the cloud for time-sensitive projects.

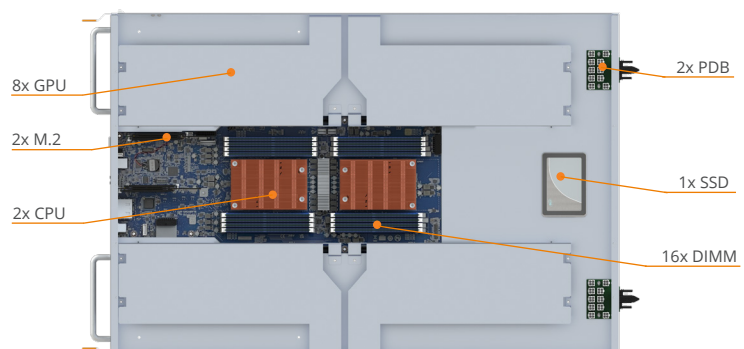
Certified by the Solar Impulse Foundation

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.

Front I/O view



Server overview



SPECIFICATIONS

System	Model	OCtoPus 1.8EE
	Form Factor	21-inch 2OpenU
	Nodes	2 CPUs
	Dimension	845 x 537 x 86mm 33"x 21" x 3.3"
Motherboard	CPU	2x Socket SP3 (LGA 4094) AMD EPYC™ 7xx2 and 7xx3 Series Processor family (Up to 280W)
	Chipset	System on chip
	GPU	Up to 8x Dual-slot Nvidia® GeForce, Tesla, Quadro or AMD Vega, Vega Pro cards Maximum limitation of GPU card: 285 x 111.5 x 39.5mm (LxWxH)
	Expansion slots	8x PCIe x8 (4x Gen4 x16 bus) for GPUs 2x PCIe x16 (Gen4 x16 bus) Half-length low-profile slots
	BMC	Aspeed® AST2500
Memory	Total Slots	16 (8-channel per CPU, 8 DIMM per CPU)
	Capacity per DIMM	Maximum up to 128GB (with RDIMM / LRDIMM modules) Maximum up to 256GB (with 3DS RDIMM / LRDIMM modules)
	Memory Speed	Up to 3200 MHz
Network		2x RJ45 1Gb/s LAN ports (Intel® I350-AM2 controller) 1x 10/100/1000 management LAN (IPMI)
Front I/O	Ports	2x USB 3.0 1x VGA 2x RJ45 (1GbE) 1x RJ45 dedicated IPMI (MLAN)
	Switch/LED	1x Power button with LED 1x ID button with LED 1x Reset button 1x NMI button 1x System status 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 Supply	Type	OCP Principles: Power Supplies are mutualized at the back of the rack