DATASHEET

OCtoPus 1.4E

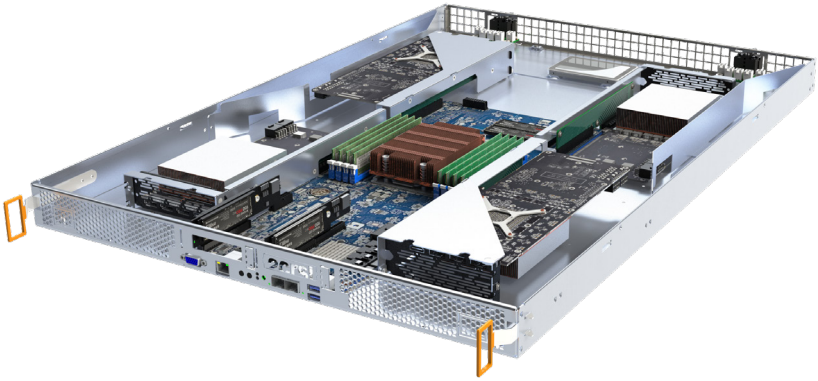
Rev. 1.0

SERVER BASED ON OCP PRINCIPLES

21-inch – 1OpenU – 1 CPU and 4 GPUs – Front IO

Key Features

- 21-inch - 1OU / 1 CPU / 4 GPUs - Front IO
- Single AMD EPYC™ 7xx2 and 7xx3 Series Processors family Socket SP3
- 8x DDR4 @ 3200MHz
- 4x PCIe 4.0 x16 + 2x PCIe 4.0 x16 HL LP
- OCP technology 12V DC
- IPMI / iKVM with ASPEED® AST2500
- Air Cooling Immersion Cooling



AMD EPYC™ Series Processors family

The OCtoPus 1.4E 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.

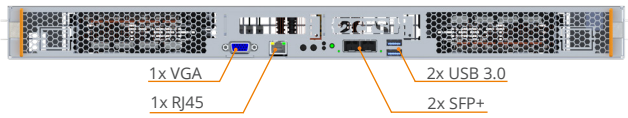
Unleash your server's virtualization potential

AMD EPYC™ processors are at the heart of the technological improvements. The AMD EPYC™ brings together critical compute, memory, I/O, and security resources with the right ratios to deliver industry-leading performance while lowering TCO. Servers powered by AMD EPYC™ processors enable virtualized-datacenters to further increase consolidation ratios while offering higher-performance virtual machines.

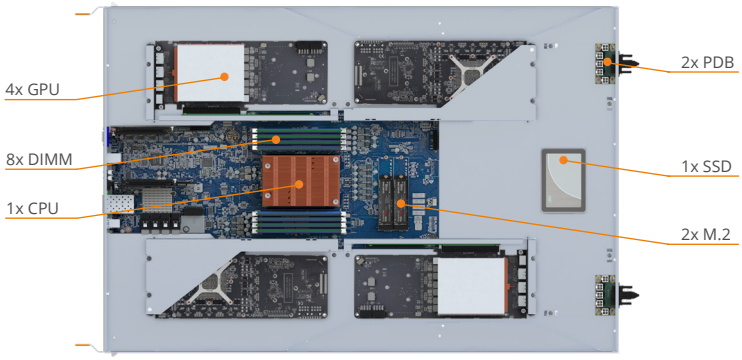
Certified by the Solar Impulse Foundation

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



SOLAR IMPULSE EFFICIENT SOLUTION OCTOBER 2021

DATASHEET **OCtoPus 1.4E (Rev. 1.0)**

SPECIFICATIONS

System	**Model**	OCtoPus 1.4E (Rev. 1.0)
	Form Factor	21-inch 1OpenU
	Nodes	1 CPU
	Dimension	788.4x 537 x 45.5mm (latch to hard stop) 31”x 21” x 1.8” (latch to hard stop)
Storage	**Internal type**	Up to 2x M.2 NVMe (1x PCIe Gen3 x4; 1x PCIe Gen3 x2), 1x SSD 2.5''
Motherboard	**CPU**	AMD EPYC™ 7xx2 and 7xx3 Series Processor family In Air Cooling: up to 200W In Immersion Cooling: up to 280W
	Chipset	System on chip
	GPU	Up to 4x 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	4x PCIe x16 (Gen4 x16 bus) for GPUs 2x PCIe x16 (Gen4 x16 bus) Half-length low-profile slots
	BMC	Aspeed® AST2500
Memory	**Total Slots**	8 (8-channel, 8 DIMM) DDR4 memory supported only
	Capacity	Maximum up to 1024GB (with 128GB RDIMM / LRDIMM modules) Maximum up to 2048GB (with 256GB 3DS RDIMM / LRDIMM modules)
	Memory Speed	Up to 3200 MHz
Network		2x SFP+ 10Gb/s LAN ports (Mellanox® ConnectX-4 Lx) 1x 10/100/1000 management LAN (IPMI)
Front I/O	**Ports**	2x USB 3.0 1x VGA 2x SFP+ (10GbE) 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