

# OCtoPus 1.8iP

## SERVER BASED ON OCP PRINCIPLES

21-inch - 20OpenU - 2 CPUs and 8 GPUs - Front IO

### Key Features



**21-inch - 20U / 2 CPUs  
/ 8 GPUs - Front IO**



**Dual 3rd Generation  
Intel® Xeon® Scalable  
Processors  
Socket P+**



**16x DDR4 @ 3200MHz**



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



**OCP technology  
12V DC**



**IPMI / iKVM with  
ASPEED® AST2600**



**Immersion Cooling**

Front view



### 3rd Gen Intel Xeon Scalable Processors

The OCtoPus 1.8iP has been built for those who need a flexible and efficient solution. The 3rd Gen Xeon Scalable processors offer a balanced architecture with built-in acceleration and advanced security capabilities.

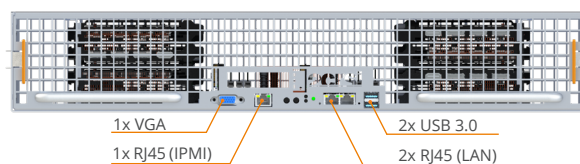
### Scale out and scale up

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.

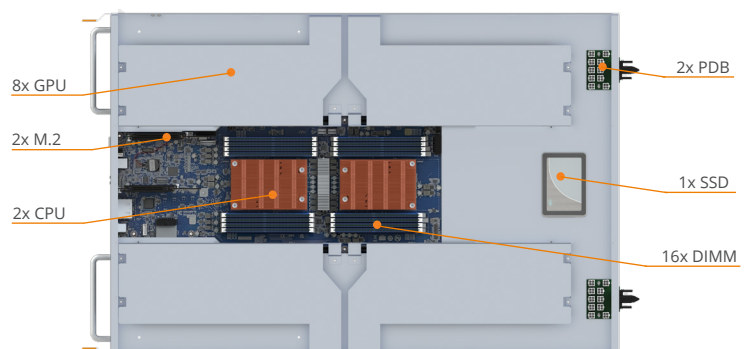
### Certified by the Solar Impulse Foundation

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

<b>System</b>	<b>Model</b>	OCtoPus 1.8EE
	<b>Form Factor</b>	21-inch 2OpenU
	<b>Nodes</b>	2 CPUs
	<b>Dimension</b>	845 x 537 x 86mm 33"x 21" x 3.3"
<b>Motherboard</b>	<b>CPU</b>	2x Socket P+ (LGA 4189) 3rd Generation Intel® Xeon® Scalable Processors
	<b>Chipset</b>	Intel® C621A Express Chipset
	<b>GPU</b>	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)
	<b>Expansion slots</b>	8x PCIe x8 (4x Gen4 x16 bus) for GPUs 2x PCIe x16 (Gen4 x16 bus) Half-length low-profile slot
	<b>BMC</b>	Aspeed® AST2600
<b>Memory</b>	<b>Total Slots</b>	16 (8-channel per CPU, 8 DIMM per CPU)
	<b>Capacity per DIMM</b>	Maximum up to 128GB (with RDIMM / LRDIMM modules) Maximum up to 256GB (with 3DS RDIMM / LRDIMM modules)
	<b>Memory Speed</b>	Up to 3200 MHz
<b>Network</b>		1x RJ45 for dedicated management (IPMI) 2 x 10Gb/s BASE-T LAN ports (Intel® X710-AT2)
<b>Front I/O</b>	<b>Ports</b>	2x USB 3.0 1x VGA 2x RJ45 (1GbE) 1x RJ45 dedicated IPMI (MLAN)
	<b>Switch/LED</b>	1x Power button with LED 1x ID button with LED 1x Reset button 1x NMI button 1x System status LED
<b>Management Solution</b>	<b>Out of Band Remote Management</b>	BMC Remote control based on Aspeed® AST2600 remote management controller (Power Control Configuration, Chassis Identify, Boot Option, iKVM, BMC Account Configuration)
<b>Power Supply</b>	<b>Type</b>	OCP Principles: Power Supplies are mutualized at the back of the rack