1U Compute Accelerator with Intel Xeon Phi Coprocessors

The CA2001 Compute Accelerator with one or two Intel Xeon Phi Coprocessors is employed in a variety of HPC applications including oil and gas exploration and financial services. Completely integrated with the coprocessors most suited for a specific application, it's easy installation and tested reliability makes it superior to alternative products. The CA2001 occupies only 1U of rack space and connects to the host server through the latest technology PCIe x16 Gen3 connection.

PN: OSS-PCIe3-1U

Features

- 1U High
- One Rear Panel PCIe x16 Gen3 Interface
- Remote System Monitoring Capability; monitor fans, temperature and voltages
- 1620-watt Power Supply
- Superior Cooling with Eight 30 CFM Fans
- Choice of 1 or 2 Intel Xeon Phi Coprocessors

Specifications

Enclosure	
Dimensions	1.75"H x 17"W x 22.25" D Front Panel LED One Rear panel PCIe x16 interface
Capacity	Up to two Intel Xeon Phi Coprocessors
Power Supply	1620W power supply (internal)
Expansion	PCIe x16 1-meter cable PCIe x16 Gen3 cable adapter
Cooling	Eight 30 CFM fans (removable)
Operating Environment	0-35°C 10-90% relative humidity 0-10,000 feet above sea level
Storing Environment	-40 to 85°C Any relative humidity 0-50,000 feet above sea level
Agency Compliance	Pending: FCC Class A CE RoHS

Intel Xeon Phi Coprocessors			
Model	3120P	5110P	7120P
Peak Double Precision Performance	1.003 teraflops	1.011 teraflops	1.208 teraflops
Board TDP	300W	225W	300W
# of Cores	57	60	61
Core Freq.	1.1 GHz	1.05 GHz	1.24 GHz
Memory Capacity	6GB	8GB	16GB
Memory Bandwidth	240GB/s	320GB/s	352GB/s
Computing Applications	Monte Carlo, Black-Scholes, HPL, LifeSC	STREAM, ray-tracing, RTM	Seismic Imaging Processing, Molecular Dynamics, WRF
Architecture Features	Maximum Value	Power Efficient	Intel Turbo Boost 1.0 1.33GHz

For a list of qualified servers, go to http://www.onestopsystems.com/hpc/1u-compute-accelerator-intel-xeon-phi-coprocessors