

2U Compute Accelerator with NVIDIA Tesla GPUs

The CA4000 Compute Accelerator with four NVIDIA® Tesla® GPU accelerators is employed in a variety of HPC applications including oil and gas exploration and financial services. Completely integrated with the GPUs most suited for a specific application, it's easy installation and tested reliability makes it superior to alternative products. The CA4000 occupies only 2U of rack space and connects directly to one or two host server(s) through the latest technology PCIe x16 Gen3 connection.

PN: OSS-PCIe3-2UX

Features

- 2U High
- One or two Rear Panel PCIe x16 Gen3 Interfaces
- Remote System Monitoring Capability; monitor fans, temperature and voltages
- Dual redundant 1620-watt Power Supplies
- Superior Cooling with five temperature controlled fans
- Choice of 1 to 4 NVIDIA Tesla GPUs



Specifications

Enclosure	
Dimensions	3.5"H x 17"W x 22.25" D Removable front bezel with air filter Front Panel LEDs
Capacity	Up to 4 NVIDIA Tesla GPUs
Power Supply	Dual redundant 1620W power supply (removable)
Expansion	One or two PCIe x16 1-meter cable(s) One or two PCIe x16 Gen3 cable adapter(s)
Cooling	Four 132 CFM fans (removable)
Operating Environment	1-35°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

Tesla GPUs	Tesla M40	Tesla M60	Tesla K40	Tesla K80	Tesla P100
Peak Double Precision Performance	.2 TeraFLOPS	3.8 TeraFLOPS	1.43 TeraFLOPS	2.91 TeraFLOPS	4.7 TeraFLOPS
Peak Single Precision Performance	7 TeraFLOPS	7.4 TeraFLOPS	4.29 TeraFLOPS	8.74 TeraFLOPS	9.3 TeraFLOPS
Number of GPUs	1 Maxwell GM200	2 Maxwell GM204s	1 Kepler GK110B	2 Kepler GK210s	1 Pascal GP100
Number of CUDA Cores	3072	4096	2880	4992	3584
Memory Capacity and Bandwidth	24GB GDDR5 at 288GB/s	16GB GDDR5 at 320GB/s	12GB GDDR5 at 288GB/s	24GB GDDR5 at 480GB/s	16GB CoWoS HBM2 at 720GB/s or 12GB CoWoS HBM2 at 540GB/s
Power Consumption	250 W	300 W	235 W	300 W	250 W

For a list of qualified servers, go to <http://onestopsystems.com/hpc/2u-compute-accelerator-nvidia-tesla-gpus>