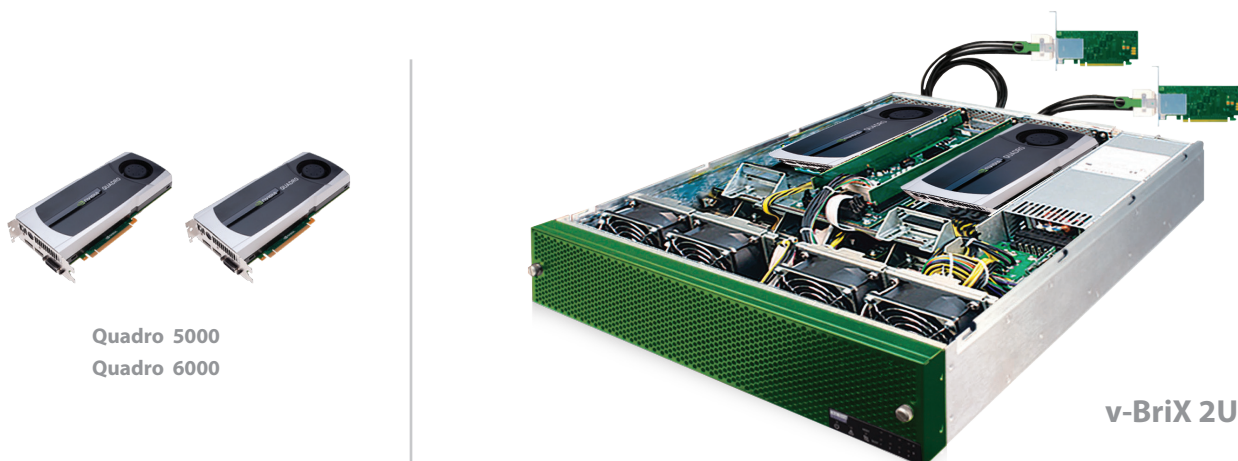


Based on the NVIDIA CUDA™ GPU architecture code named "FERMI," the Xtreme Compute Technologies (XCT) XS2-Q5000 & Q6000 1u Professional Graphics Computing Systems are designed from the ground up for multi-GPU high performance visual and GPU compute to tackle today's biggest challenges.

The XCT-XS2-Q5000 & Q6000 multi-GPU Professional Graphics Compute Systems based on the NVIDIA Quadro(R) 5000 & 6000 by PNY delivers the industry's largest 2.5 & 6 GB GDDR5 graphics memory. Built on the innovative NVIDIA Fermi architecture and providing 352 & 448 NVIDIA CUDA™ parallel processing cores, respectively, delivering up to 5X faster performance across a broad range of design, animation and video applications.

Additional "must have" features for both the technical and enterprise computing space include ECC memory for uncompromised accuracy and scalability, and 7x the double precision performance compared to the previous generation GPU computing products. Compared to typical quad-core CPU's, Quadro Fermi based compute systems deliver equivalent performance at 1/10th the cost and 1/20th the power consumption. Designed with FOUR Fermi based processors in a standard 2u chassis, the XCT-XS2-Q5000 & Q6000 visual computing systems scale to solve the world's most important computing challenges - more quickly and accurately. OIL & GAS, SCIENCE, FINANCE AND MORE!



Quadro 5000
Quadro 6000

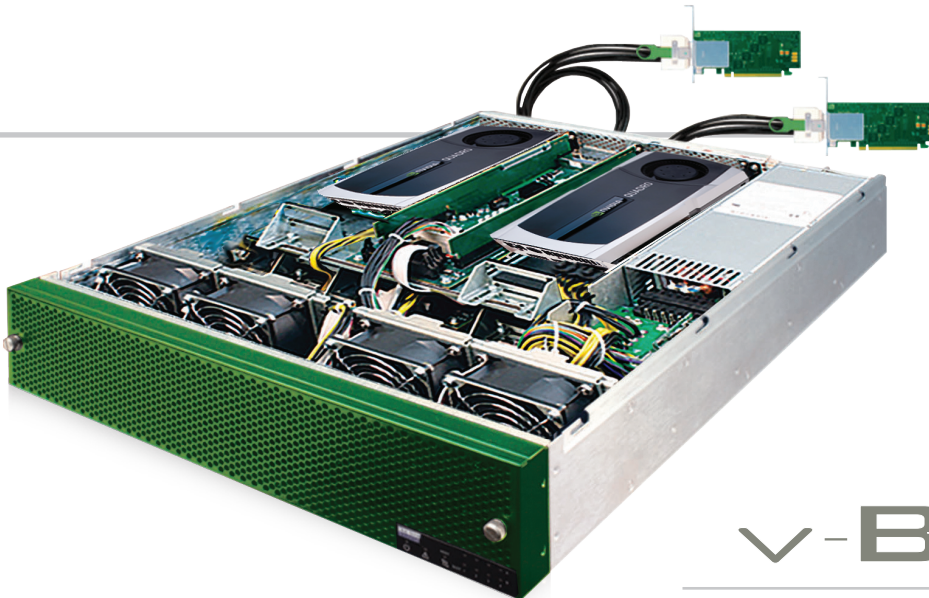
v-BriX 2U

Technical Specifications

Form Factor	2U
# of Quadro by PNY GPU's	4
Display Connectors (Q6000)	DVI-DL + DP + DP + Stereo
Memory Speed	1.55 GHz GPU
Memory Interface (Q6000)	384-bit GPU
Memory Bandwidth (Q6000)	148 GB/sec
DP Floating Point (Q6000)	2 Tflops (Peak)
SP Floating Point (Q6000)	4 Tflops (Peak)
Total Dedicated Memory	
10 GB GDDR5: A-BriX XS2-Q5000	
24 GB GDDR5: A-BriX XS2-Q6000	
System Interface	PCIe x16 /Gen2
Software Development Tools	
CUDA C/C++	
Fortran, OpenCL, DirectCompute Toolkits	

v-BriX Benefits

	XCT	NVIDIA/ NextIO Tesla S
Flexibility Mix Tesla or Quadro for optimum application and budget requirements	✓	✗
Serviceability Field Serviceable Reduce downtime Peace of mind	✓	✗
Upgradability Stay current with future Fermi architecture advances	✓	✗
3 year Standard On-Site Warranty INCLUDED!	✓	✗
Made in USA	✓	✗
Data Center Certified	✓	✓



v-BRiX

XTREME COMPUTE
TECHNOLOGIES

Quadro - 2U Specifications

Enclosure

Dimensions: 19" w x 3.5" h x 21" d
Removable front bezel with air filter
Front panel LEDs: Power, Fail, Link status
One or two rear panel PCIe x16 cable connectors
Rack ears and rack slides included

PCIe Expansion Slots

PCIe 2.0 compliant
Four or Eight PCIe x16 slots (electrical and mechanical)

Power

Dual 850W power supplies
Each slot provides 3.3V & 12V plus a 6-pin 12V connector

System Monitoring

Monitors 8 temp sensors
Monitors 4 fan tachometers
Monitors 3 voltages +12V, +5V, +3.3V

Operating Environment

Temperature Range: Operating: 0°C to 50°C
Storage: -40°C to +85°C
Humidity:
Operating: 10% to 90% relative humidity (non-condensing)
Non-operating: 5% to 95% relative humidity (non-condensing)
Altitude: Operating 0 to 10,000 feet
Storage: 0 to 50,000 feet

Agency Compliance

FCC Class A, CE Mark, UL

Host cable adapter

One or two PCIe x16 Gen 2 cable adapters
PCIe half-card
Standard and low profile brackets provided

PCIe x16 cable

Standard PCIe x16 shielded differential pairs with side band signals
PCIe External Cabling Specification, Rev. 1.0
Cables can be ordered in 1m, 3m, lengths

Brackets for I/O cards provided upon request

PCIe Over Cable

The 2U expansion enclosure cables to the host system with one or two PCIe x16 cables. The high-speed cables allow data transfers to and from the hosts simultaneously up to 160Gb/s each way.

Installation

The two PCIe x16 Gen 2 cable adapters can be installed in the PCIe x16 slots of the same host system or of two different hosts. No additional software is required for the expansion enclosure to be fully operational.

System Monitoring

The internal system monitor surveys system parameters of temperature, fan speed, and power voltages. System status can be easily accessed through an Ethernet port on the rear of the enclosure.

Power

Dual 850 watt hot swappable power supplies provide ample power for high-end GPU boards. Additional 12V power is provided by 6-pin cables for each slot.

Cooling

Superior cooling is provided across all the boards. A power modulator controls the speed of the fans based on temperature within the chassis.

www.xtremecompute.com

