

Based on the NVIDIA CUDA™ GPU architecture code named “FERMI,” the Xtreme Compute Technologies (XCT) XSC-Q5000 & Q6000 Deskside 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-XSC-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 up to three Fermi based processors in a small Deskside chassis, the XCT-XSC-Q5000 & Q6000 visual computing systems scale to solve the worlds most important computing challenges - more quickly and accurately. OIL & GAS, SCIENCE, FINANCE AND MORE!



v-BriX SideCar



Quadro 5000
Quadro 6000

Technical Specifications

Form Factor	SideCar
#of Quadro by PNY GPU's	2(x16) / 1(x8)
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)	1 Tflops (Peak)
SP Floating Point (Q6000)	2 Tflops (Peak)
Total Dedicated Memory (2GPUs)	
5 GB GDDRS: A-BriX XSC-Q5000	
12 GB GDDRS: A-BriX XSC-Q6000	
System Interface	PCIe x16 /Gen2
Software Development Tools	
CUDA C/C++	
Fortran, OpenCL, OpenGL, DirectCompute Toolkits	

v-BriX Benefits

XCT

v-BriX Benefits	XCT
Flexibility Mix Tesla or Quadro for optimum application and budget requirements	<input checked="" type="checkbox"/>
Serviceability Field Serviceable Reduce downtime Peace of mind	<input checked="" type="checkbox"/>
Upgradability Stay current with future Fermi architecture advances	<input checked="" type="checkbox"/>
3 year Standard On-Site Warranty INCLUDED!	<input checked="" type="checkbox"/>
Made in USA	<input checked="" type="checkbox"/>



V-BRIX

XTREME COMPUTE
TECHNOLOGIES

Quadro - SideCar Specifications

Enclosure

Dimensions: 7.5" w x 16.5" h x 19.5" d
One rear panel PCIe x16 cable interface

PCIe Expansion Slots

PCIe 2.0 compliant
Two PCIe x16 slots (electrical and mechanical)
Two PCIe x8 slots (with x16 connectors)
Two PCIe x4 slots (with x16 connectors)

Power

750W power supply
Each slot provides 3.3V & 12V plus a 6-pin 12V connector

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 PCIe x16 Gen 2 cable adapter
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 Tower expansion enclosure cables to the host system with one PCIe x16 cable. The high-speed cable allows data transfers to and from the hosts simultaneously up to 160Gb/s each way.

Installation

The PCIe x16 Gen 2 cable adapter easily installs in the PCIe x16 slot of the host system. No additional software is required for expansion enclosure to be fully operational.

Power

The 750 watt power supply provides 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.

www.xtremecompute.com

