



Based on the NVIDIA CUDA™ GPU architecture code named "FERMI," the Xtreme Compute Technologies (XCT) XS1-2050 & 2070 1u Computing Systems are designed from the ground up for High Performance.

The XCT-XS1-2050 & 2070 Compute Systems deliver "must have" features for the technical and enterprise computing space including ECC memory for uncompromised accuracy and scalability, and 7x the double precision performance compared to Tesla 10-series GPU computing products. Compared to typical quad-core CPU's, Tesla 20-series based compute systems deliver equivalent performance at 1/10th the cost and 1/20th the power consumption. Designed with TWO Fermi based processors in a standard 1u chassis, the XCT-XS1-2050 & 2070 computing systems scale to solve the worlds most important computing challenges - more quickly and accurately. OIL & GAS, SCIENCE, FINANCE AND MORE!





a-BriX Benefits

Technical Specifications

Form Factor
of Tesla GPUs
Memory Speed
Memory Interface
Memory Bandwidth
DP Floating Point
SP Floating Point
Total Dedicated Memory
6 GB GDDRS: A-BriX XS1-2050
12 GB GDDRS: A-BriX XS1-2070
System Interface
Software Development Tools
CUDA C/C++
Fortran, OpenCL, DirectCompute Toolkits

1U 2 1.55 GHz GPU 384-bit GPU 148 GB/sec 1 Tflops (Peak) 2 Tflops (Peak)

PCle x16 Gen2

		Tesla S
Flexibility Mix Tesla or Quadro for optimum application and budget requirements	(4)	8
Serviceability Field Serviceable Reduce downtime Peace of mind		*
Upgradability Stay current with future Fermi architecture advances	Ø	8
3 year Standard On-Site Warranty INCLUDED!	Ø	8
Made in USA		(X)



Data Center Certified





NVIDIA/

NextIO

XCT



Tesla - 1U Specifications

Enclosure

Removable front bezel with air filter One rear panel PCIe x16 cable connector Rack ears and rack slides included

PCIe Expansion Slots

Two or Four PCle x16 slots (electrical and

System Monitoring

Monitors 8 temp sensors Monitors 8 fan tachometers

Operating Environment

Temperature Range: Operating: 0°Cto 50° C Storage: -40° C to +85° C

Altitude: Operating 0 to 10,000 feet Storage: 0 to 50,000 feet

Agency Compliance

Host cable adapter

One PCle x16 Gen 2 cable adapter PCle half-card

PCIe x16 cable

PCIe External Cabling Specification, Rev. 1.0 Cables can be ordered in 1m, 3m, lengths

Brackets for I/O cards provided upon request

PCle Over Cable

enclosure cables to the host system with a single PCle x16 cable. The high-speed cable allows data transfers

Installation

cable adapter easily installs in the PCIe x16 slot of the host system. No additional software

System Monitoring

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

supply provides ample power for high-end GPU boards. Additional 12V power is provided by 6-pin cables for each slot.

removable fans provide superior cooling across the boards. A power based on temperature within the chassis.

www.xtremecompute.com



