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***For Immediate Release***

# ZNYX Wins AdvancedTCA Summit 2011 Best of Show Award for Best Unique Customer Application

***Lawrence Berkeley National Laboratory leverages ZNYX Ultra5 ZX1900 platform to receive and store X-ray images at unprecedented resolutions and data transfer rates***

**SAN JOSE, Calif., AdvancedTCA Summit 2011, Nov. 2, 2011 —** ZNYX Networks Inc., the new leader in AdvancedTCA (ATCA) mid-range chassis with the ZNYX Ultra5™ platform, was presented with the AdvancedTCA Summit 2011 Best of Show award for Best Unique Customer Application last night. ZNYX customer, Lawrence Berkeley National Laboratory (LBNL), is leveraging the industry-leading ZNYX Ultra5 ZX1900 5U chassis with SANBlaze storage to receive and store X-ray images of the diffraction patterns of basic materials in the pursuit of leading-edge energy physics research.

"What makes the Lawrence Berkeley National Laboratory's solution so unique is that is both high profile and one of the earliest uses of AdvancedTCA in the physics community," said Ernie Bergstrom, president of Crystal Cube Consulting and chairperson of the AdvancedTCA Summit. "By developing innovative platforms that are highly integrated and optimized for specific needs, ZNYX is leading the way for new markets to take advantage of the benefits of AdvancedTCA."

Lawrence Berkeley National Laboratory houses the Advanced Light Source (ALS) — a third generation synchrotron ( a particular type of cyclic particle accelerator). Within the ALS, electron bunches traveling at nearly the speed of light are forced into a circular path by magnets, thus emitting bright ultraviolet and x-ray light (one billion times brighter than the sun) that shines down beamlines (lines along which a beam of particle travels) to experiment endstations. A digital camera then captures the x-ray images of the diffraction patterns of the materials being examined at up to 200 frames and 200 Megapixels per second.

LBNL received American Recovery and Reinvestment Act funds to develop and equip its beamlines with state-of-the-art high-speed detection equipment to enhance the reach and productivity of the beamlines. Using fast X-ray pixel detectors, the upgraded LBNL system increased the observable area of the beamline

by a factor of eight over the previous generation system. To handle the accompanied increase in data volume and bandwidth, the newly deployed ZNYX Ultra5 ZX1900 platform with SANBlaze storage receives and stores this data at rates of 400 Megabytes/second, with an upgrade path to over 800 Megabytes per second (MB/sec) with frame rates of up to 200 MB/sec.

LBNL's long-term goal for digital image capture on the ALS is 10,000 Megapixels per second. (As a comparison, current digital SLR cameras have a typical frame rate of 3 to 6 frames per second with 12 to 18 Megapixels.) This extraordinary tool offers unprecedented opportunities for state-of-the-art research in materials science, biology, chemistry, physics, and the environmental sciences.

After testing proof-of-concepts from several vendors, LBNL selected the ZNYX Ultra5 ZX1900 ATCA 5U platform with its fast data transport Ethernet Switch combined with SANBlaze's high performance ATCA storage for this distinctive technology application.

"ZNYX and SANBlaze offered the only system to meet the write speed requirements we outlined," said Patrick McVittie, electronics engineer, Lawrence Berkeley National Laboratory. "Our new digital image capture and ZNYX ATCA system has provided huge cost and time savings to the scientific community."

This ATCA system is the first of many that will be deployed across the country over the next 12 to 18 months, including systems at Argonne National Laboratory and other well-known national laboratories.

## About ZNYX Ultra5

ZNYX has taken a strong leadership position with the Ultra5, the company's new flagship platform product line. The ZNYX Ultra5 series of mid-size platforms provide application integrators with superior value-add opportunity through the highest integration and core density in an ATCA 5U chassis. Each system is optimized to fit the unique requirements of common industry applications. The ZNYX Ultra5 series builds on ZNYX Networks' established standards-based Ethernet switch leadership, continued innovation, and integration to deliver the ultimate in mid-sized ATCA platforms.

## About ZNYX Networks

ZNYX Networks is the new leader in mid-range ATCA platforms delivering unmatched density in CarrierClass™ platforms for telecommunications, military, government, aerospace and security. With over a decade of proven integration expertise and ATCA Ethernet switch leadership, ZNYX Networks has become the premier source for switches, blades, and fully integrated ATCA platforms that deliver superior value.

Equipment manufacturers, application providers, and system integrators rely on ZNYX products in order to create next-generation solutions optimized for performance, time-to-market, reliability, and cost-of-ownership. ZNYX innovation has earned ZNYX world-renowned customers in telecommunications, aerospace, and military; including Apple, BAE, Boeing, Fujitsu, SAIC, Intel, Lawrence Berkeley National Laboratory, NEC, Nokia, and Siemens. ZNYX CarrierClass HA embedded Ethernet products are a critical part of communication platforms for tier one carriers such as AT&T, NTT Docomo, Sprint, and Verizon.

Founded in 1992, ZNYX Networks is headquartered in Fremont, Calif. with advanced research centers in Santa Barbara and San Luis Obispo, California. For more information, please visit www.znyx.com or email sales@znyx.com.

## About the AdvancedTCA Summit

The AdvancedTCA Summit is the only conference dedicated entirely to this emerging standard platform for telecommunications. It features tutorials, workshops, roundtables, paper and panel sessions, keynotes, and exhibits. Subjects include hardware, software, infrastructure, design and development methods, applications, standards, interfaces, and market research. It also covers related standards such as AdvancedMC and MicroTCA. It is produced in cooperation with such organizations as PICMG, SCOPE (network equipment providers), SA (Service Availability) Forum, OpenSAF, and the AXIe Consortium (AdvancedTCA Extensions for Instrumentation and Test). For more information, visit

**www.advancedtcasummit.com.**

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