



DIAMOND SYSTEMS CORPORATION

ANNOUNCING NEW PC/104 SINGLE BOARD COMPUTERS COMBINING HIGH CPU PERFORMANCE WITH ADVANCED DATA ACQUISITION

*Diamond Systems' rugged Athena II SBC reduces size, weight and cost
And extends lifecycle for a broad set of embedded applications*

January 15, 2008. San Jose, CA. Diamond Systems Corporation, a leading supplier of PC/104 I/O modules and highly integrated single board computers (SBCs) with on-board data acquisition, today announced availability of the Athena II SBC, a family of 2-in-1 compact SBCs with integrated data acquisition. Athena II combines state-of-the-art CPU and I/O technology with Diamond Systems' renowned high accuracy analog data acquisition circuitry on a single board, saving space and reducing cost in embedded computer systems. The Athena II SBC family is a technology update of the popular Athena SBC family, bringing additional performance at the same price while maintaining backward compatibility to support long customer product lifecycles.

"Continuing advances in processor technology and design techniques enable us to squeeze more performance and features onto the same size board at the same or lower prices as before," said Jonathan Miller, President of Diamond Systems. "With Athena II, embedded systems users get a more powerful and versatile computing platform for their applications than previously available. In addition, existing users of Athena will appreciate the technology refresh bringing new life to their designs."

The Athena II family is a plug-compatible replacement for Diamond's Athena family of SBCs. It utilizes the new VIA Mark processor, operating at 500MHz or 800MHz, an improvement over the Athena speeds of 400MHz and 660Mhz. It offers 256MB of DDR2 DRAM operating at 533MHz (vs. 128MB on the older models) soldered on-board for increased shock and vibration resistance. Built-in I/O includes a 10/100Mbps Ethernet controller, VGA/LCD display, four USB 1.1 ports, four RS-232 serial ports (two with RS-485), keyboard, mouse and IDE hard drive interfaces.

Athena II's integrated data acquisition functions utilize Diamond's autocalibration technology to calibrate the A/D and D/A circuits providing analog I/O performance with the maximum possible accuracy. Athena II has 16 analog inputs with 16-bit A/D and 100KHz sample rate, four analog outputs with 12-bit D/A and 100KHz waveform output capability, 24 digital I/O lines, and two counter/timers. It supports interrupt A/D transfers and uses an enhanced FIFO for maximum flexibility and data reliability. Diamond's Universal Driver programming software for Linux, Windows XP and CE.NET is included.

Also available for immediate delivery are new, comprehensive Athena II Development Kits and the Pandora enclosure for Athena II. The Development Kits contain everything needed to get started designing with the Athena II high performance SBC except for a keyboard and display. Each kit contains the selected Athena II SBC, an IDE flashdisk with Linux pre-loaded, all necessary cables, an AC adapter, and detailed "getting started" documentation.

Athena II and its related products are all available now with deliveries beginning in March, 2008. Prices start at \$575. Volume discounts are available.

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About Diamond Systems

Founded in 1989, Diamond Systems was an early adopter of PC/104 technology and today is one of the leading worldwide suppliers of PC/104 I/O modules and highly integrated single board computers combining CPU and data acquisition on a single board. Diamond Systems' extensive product line includes A/D, D/A, digital I/O, serial communications, multifunction networking, and power supply modules as well as single board computers and enclosures. Diamond Systems also offers a full range of system solutions, including the capability to customize a board or system to meet the needs of a particular application. Privately held, Diamond Systems is based in Mountain View, California, in the heart of Silicon Valley with its European Headquarters located in Oberglatt, Switzerland (suburb of Zurich).

For more information visit www.diamondsystems.com or call 1-800-36-PC104.

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