



DIAMOND SYSTEMS CORPORATION

2.0GHZ EPIC SINGLE BOARD COMPUTER COMBINING HIGH CPU PERFORMANCE WITH ADVANCED DATA ACQUISITION NOW SHIPPING

Diamond Systems' rugged Poseidon SBC reduces size, weight and cost while increasing reliability for a broad set of embedded applications

November 8, 2007. 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 the Poseidon SBC, the industry's highest performance EPIC SBC with integrated data acquisition, is shipping in volume. Poseidon combines state-of-the-art CPU and I/O technology with Diamond Systems' renowned high accuracy data acquisition circuitry on a single board.

"Designers wishing to save space and lower costs by selecting an SBC with built-in data acquisition have always had to compromise, either with a lower performance processor or less capable data acquisition," said Jonathan Miller, President of Diamond Systems. "With Poseidon, designers get a state-of-the-art 2.0GHz processor, up-to-date features like USB 2.0, gigabit Ethernet and S-ATA mass storage, along with Diamond Systems' advanced automatically autocalibrating A/D interface. It's control without compromise."

Poseidon utilizes the VIA C7® and VIA Eden® ULV processors, operating at speeds up to 2.0GHz, and provides advanced features such as a 400MHz front side bus, four USB 2.0 ports, S-ATA hard drive interface and advanced 2D/3D graphics with AGP 8x level performance and MPEG-2 hardware acceleration. The dual graphics display engines support simultaneous, independent CRT and LVDS flat panel displays, driving different images at different resolutions. Poseidon offers 512MB of DDR2 DRAM operating at 533MHz, soldered on-board for increased shock and vibration resistance, an Intel 82541 Gigabit Ethernet controller, four RS-232 serial ports (two with RS422/485), keyboard, mouse and IDE hard drive interfaces.

Poseidon's integrated data acquisition functions incorporate the same circuitry as Diamond Systems' DMM-32X-AT PC/104 module. Utilizing Diamond's patented Automatic Autocalibration technology, Poseidon calibrates the A/D and D/A circuits automatically whenever required without user intervention, providing analog I/O performance with the maximum possible accuracy. Poseidon has 32 analog inputs with 16-bit A/D and 250KHz 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 both interrupt and DMA 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, and QNX is included.

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Also available for immediate delivery are new, comprehensive Poseidon Development Kits and the Triton enclosure for Poseidon. The Development Kits contain everything needed to get started designing with the Poseidon high performance SBC except for a keyboard and display. Each kit contains the selected Poseidon SBC, an IDE flashdisk with Linux pre-loaded, all necessary cables, a panel I/O board, an AC adapter and detailed "getting started" documentation. The new Triton enclosure provides an easy to assemble, rugged and flexible enclosure for Poseidon and other EPIC SBCs. In addition to bringing all standard PC I/O to the front panel, Triton supplies a 50-pin connector interface for analog I/O pins and a 34-pin connector interface for 24 digital I/O lines. Triton enclosures are available in a kit version that includes an AC adapter, panel I/O board and the necessary cables, or a basic enclosure version.

The Poseidon SBC is available in both the 1.0GHz and 2.0GHz versions, with and without data acquisition. Poseidon and its related products are all available for immediate delivery. Prices start at \$695. Volume discounts are available.

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. For more information visit www.diamondsystems.com or call 1-650-810-2500.

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