



DIAMOND SYSTEMS CORPORATION

For Immediate Release
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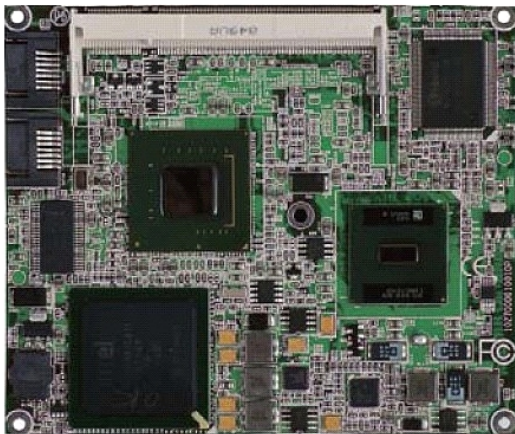
EMBEDDED I/O SPECIALIST AIMS COMS AT REAL-WORLD APPLICATIONS

Processors Range from Atom to Core2Duo

March 31, 2009. Embedded Systems Conference, San Jose, CA. Diamond Systems Corporation, a leading manufacturer of rugged single-board computers featuring data acquisition interfaces, today unveiled a family of ETX 3.0-compatible Computer-on-Module products. Additionally -- to maximize the cost, risk, and time-to-market benefits of COM-based embedded system designs -- Diamond will support its new COM family with a comprehensive offering of development and customization services.

Diamond's ETX COM family initially comprises two products:

- **ETX-Atom** -- based on the low-power 1.6GHz Intel Atom N270 processor
- **ETX-945M** -- offers a choice of Intel Core2Duo or Celeron M processors, clocked at up to 2.16GHz



ETX-Atom



ETX-945M

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Both modules integrate a complete set of PC-compatible core functions, including a high-performance processor, up to 2GB of on-board DDR2 SDRAM (SO-DIMM), and an extensive set of system controllers and peripheral interfaces. On-board I/O ports include high-resolution CRT and dual-channel LVDS video, 10/100Mbps Ethernet, 2x SATA, IDE, 4x USB 2.0, audio in/out, 2x serial, parallel, PS/2 keyboard/mouse, real-time clock, and watchdog timer.

The modules' inclusion of both 32-bit PCI and 16-bit ISA buses maximizes application baseboard development flexibility. To accommodate applications in harsh outdoor environments, all three modules are rated for operation over extended temperature ranges (-20°C to +70°C for the ETX-Atom; -45°C to +85°C for the ETX-945M).

Baseboard Development Program

In addition to the ETX COMs themselves, Diamond has announced a range of development, customization, and support services to further ensure timely completion of embedded development projects that meet or exceed their specified requirements. These include standard, semi-custom, and full-custom ETX baseboard designs combined with carefully selected COM CPUs.

Through more than 20 years of experience producing industry-leading data acquisition I/O on PC/104 and PC/104-*Plus* modules and single-board computers, Diamond has developed an extensive library of analog, digital, and I/O interface technology. The company is now making this expertise available to its ETX COM customers, in the form of application-specific baseboards tuned to fit precise customer requirements, coupled with ETX COMs implement the processing power needed to drive the application.

Technologies available for integration into custom ETX baseboards include:

- Analog and digital I/O
- Counters and timers
- Field buses (CAN, MIL-STD-1553, etc.)
- Ethernet
- Serial ports (RS-232/422/485)
- USB 2.0
- Framegrabbers
- Wireless (GPS, cellular, Wi-Fi, Bluetooth, etc.)
- Relays and opto-isolation
- DC/DC converters

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- PC/104 (ISA), PC/104-Plus (PCI), and PCI Express expansion buses

Other available value-added services include operating system, device drivers, and BIOS customization, addition of latching connectors, burn-in and screening, conformal coating, extended temperature testing, full system integration, and program management.

Availability and Pricing

Diamond's new ETX COMs are available from stock to 45 days. In single units, each ETX COM is available in a development kit that includes the COM module with heatsink, a BB-ETX-01 ETX form-factor baseboard, 1GB of DDR2 SDRAM (SO-DIMM), cable kit, and user's manual.

Contact Diamond for details on OEM discounts and baseboard development services.

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 further information, visit Diamond Systems at www.diamondsystems.com, or call 1-800-36-PC104. The company will display its products in booth #1642 of the Embedded Systems Conference, San Jose, CA, March 31 - April 2.

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