



DIAMOND SYSTEMS CORPORATION

For Immediate Release

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Extended Temperature COM Boasts Core 2 Duo Performance

ETX 3.0 module combines high performance with legacy I/O

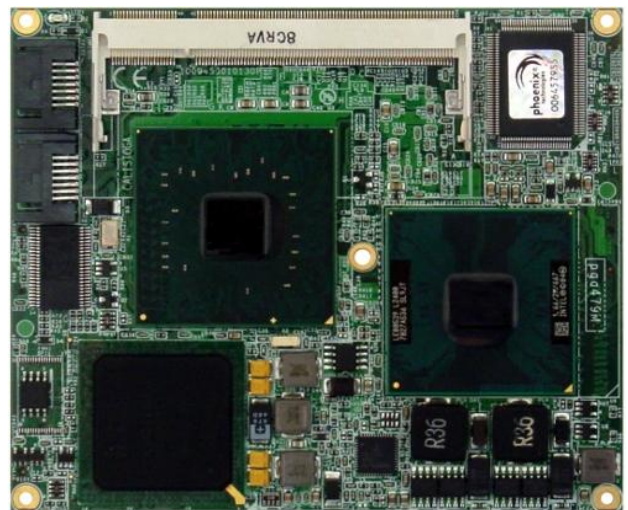
Sept. 22, 2009; Mountain View, Calif. -- Diamond Systems Corp., a leading supplier of ruggedized single-board computers (SBCs) and I/O expansion modules targeting real-world applications, today launched a series of ETX 3.0 compliant computer-on-module (COM) products based on Intel's LV and ULV Core™ 2 Duo and Core Duo processors. The modules operate over an extended temperature range of -40° to +85° C, making them suitable for performance- and reliability-critical applications, including aerospace, defense, transportation, energy management, and industrial automation. To simplify the migration of PC/104-*Plus* stacks to these high-performance Intel processors, the ETX-945 is available as a pre-integrated "Pluto" module with a PC/104-*Plus* expansion interface.

The highly compact (4.5 x 3.7 inches; 114 x 95 mm) ETX-945 is built around Intel's 945GME and ICH7M chipset, and provides an on-board SODIMM socket for up to 2GB of high-speed DDR2 system DRAM.

The ETX-945's advanced high-resolution display controller works with analog and LVDS-interfaced CRTs and LCDs at resolutions up to 2048x1536 pixels, and supports dual independent displays.

Other on-board I/O interfaces include:

- 1 10/100Mbps Ethernet port
- 2 SATA interfaces (support 1 drive each)
- 1 IDE interface (supports 2 drives)
- 4 USB 2.0 ports
- 2 serial ports
- PS/2 keyboard/mouse support (USB keyboard/mouse also supported)
- Parallel port and floppy controller (shared interface)
- AC'97 audio (mic in, line in/out)



Five ETX-945 models are offered, each with a different soldered-on Intel processor:

Model	Processor	FSB (MHz)	L2 Cache	Power Consumption	
				Idle	Heavily Loaded
ETX-945-L2400	1.66GHz Core Duo LV	667	2MB	12W	22W
ETX-945-U2500 *	1.2GHz Core Duo ULV	533	2MB	12W	16W
ETX-945-L7400 *	1.5GHz Core 2 Duo LV	667	4MB	12W	24W
ETX-945-U7500 *	1.06GHz Core 2 Duo ULV	533	2MB	12W	17W
ETX-945-CM423 *	1.06GHz Celeron M ULV	533	1MB	12W	13W

** Note: These models are special order only.*

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The ETX-945 is used as a macrocomponent, plugged into system baseboards containing application-specific circuitry, interface buffering, I/O connectors, and other required functions and components. The module's inclusion of both 32-bit PCI and 16-bit ISA expansion buses on its ETX 3.0-compliant interface maximizes the ease and flexibility of system development.

Supported operating systems currently include Windows XP and Linux 2.6, with support for additional OSes and RTOSes (real-time OSes) available on request.

Pricing and Availability

The ETX-945 CPU module is immediately available, priced at around \$650 for the ETX-945-CM423 and around \$850 for the ETX-945-L2400 in OEM quantities. Also available are several pre-integrated "Pluto" (ETX form-factor) and "Neptune" (EPIC form-factor) development kits, which include generic or application-oriented ETX baseboards, complete sets of interface cables, OS driver software, and comprehensive documentation. Contact Diamond Systems regarding higher volume pricing and application-specific customization services.

About Diamond

Founded in 1989, Diamond Systems Corporation 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's 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 also offers a full range of system solutions, including the capability to customize boards or systems to meet the needs of a particular application. The privately held company is based in Mountain View, California, in the heart of Silicon Valley.

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

Media Resources

High resolution images of the ETX-945 COM may be downloaded by clicking on these links:

- [ETX-945 Top View](#)
- [ETX-945 Bottom View](#)

The module's complete datasheet is available here:

- [ETX-945 Datasheet](#)

For further information on the ETX-945, visit Diamond's ETX Computer-on-Modules web page:

- [ETX COMs Web Page](#)