DIAMOND SYSTEMS CORPORATION

For Immediate Release
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Diamond Meshes Atom, ETX, and PC/104-*Plus*
Intel® Atom Powers I/O-rich, Expandable Embedded Computer

July 16, 2009; Mountain View, Calif. -- Diamond Systems Corp., a leading supplier of ruggedized single-board computers (SBCs) and expansion modules for real-world applications, today launched Pluto, a compact, I/O-rich, board-level embedded computer based on an Intel Atom processor and featuring modular PC/104-*Plus* expansion.

PLT-N270-1G is the first in a series of Pluto models offering scalable CPU performance and power consumption. It integrates a low-power 1.6GHz Intel Atom processor along with up to 2GB of DDR2 SDRAM, and boasts a wide -20°C to +70°C operating temperature. Pluto targets defense, transportation, energy management, industrial automation, and medical applications.

Pluto's advanced high-resolution display controller supports analog and LVDS-interfaced CRTs and LCDs and also provides a TV output option. Pluto's extensive set of I/O interfaces also includes:

Pluto packs a 1.6GHz Atom CPU, graphics, networking, a full set of I/O ports, and PC/104-Plus expandability into a compact ETX-compatible footprint
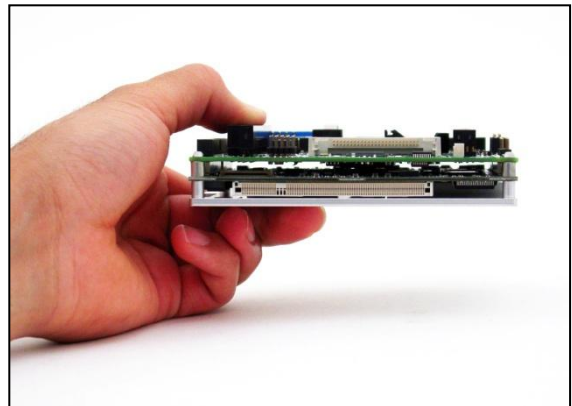
- 2 10/100Mbps Ethernet LAN ports
- 1 IDE interface (supports 2 drives)
- 2 SATA interfaces (support 1 drive each)
- 4 USB 2.0 ports
- 4 serial ports (1 RS-232/422/485; 3 RS-232 only)
- AC'97 audio (mic in, line in/out)
- PS/2 keyboard/mouse support (USB keyboard mouse also supported)
- Parallel port (shared with floppy interface)
- Programmable digital I/O port (8 inputs, 8 outputs)
- CompactFlash I/II socket

Physically, Pluto is a low profile board-set comprising an ETX CPU module mated with an ETX-sized (4.5 x 3.7-inch; 114 x 95mm) I/O baseboard. This approach offers enhanced thermal management, and increases the space available for I/O interface controllers and connectors.

A PC/104-*Plus* socket on Pluto's top side makes it easy to tailor the system to an embedded application's precise requirements, by plugging in suitable PC/104 (ISA), PCI/104 (PCI), or PC/104-*Plus* expansion modules.

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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

Shipping now, the Pluto PLT-N270-1G – based on a 1.6GHz Intel Atom processor and equipped with 1GB SDRAM and a heat-spreader – is priced at $599 (quantity 1). An interface cable kit is available for $45. Contact Diamond Systems for OEM pricing, application-specific customization services, and other details. Additional Pluto models, available soon, will feature Intel's LV and ULV Celeron, Core Duo, and or Core 2 Duo LV processors.

About Diamond

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.

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

Media Resources

High resolution images of Pluto may be downloaded by clicking on these links:

- Pluto angled view
- Pluto in hand

Pluto's complete datasheet is available for download here:

- Pluto Data Sheet

For further information on Pluto, visit its web page:

- Pluto Web Page