DIAMOND SYSTEMS CORPORATION

For Immediate Release
Contact: David Fastenau (650) 810-2514
Email: dfastenau@diamondsystems.com

Diamond Spins Linux 2.6.23 SDKs
Pre-configured Linux images support popular Diamond board-level computers

Dec. 16, 2009; Mountain View, Calif. -- Diamond Systems Corp., a leading supplier of ruggedized single-board computer (SBC), embedded-ready subsystem (ERS), and I/O expansion modules targeting real-world applications, today launched a series of Linux Software Development Kits (SDKs). Each SDK includes a tiny solid-state IDE "flashdisk" module – preloaded with a Linux® OS – that plugs directly into one of Diamond's SBC or ERS products, ready to boot and run immediately. With all required drivers pre-configured and ready to use, these Linux-bootable flashdisks complement Diamond's reliable processor modules to create solid-state Linux-based embedded computers.

Linux 2.6.23 Inside

Each new Linux SDK includes a Linux 2.6.23-based filesystem that's tailored to work seamlessly with a particular Diamond SBC or ERS product. Standard peripherals supported by preconfigured and preinstalled drivers within the provided Linux image include:

- PS/2 mouse and keyboard
- RS-232 serial ports
- IDE storage devices
- Ethernet networking

Additionally, each SDK includes Diamond's exclusive Universal Driver, which provides support for the associated processor board's onboard data acquisition functions. Demo programs for analog and digital I/O operation are also included.

Other features of the provided Linux filesystem include:

- Slackware 2.6.23 Linux kernel
- EXT3 filesystem
- Grub version 0.97 bootloader
- BusyBox version 1.10.4 utilities
- DHCP, SSH, SCP, FTP utilities
- GCC version 3.2.3 toolchain including gcc, g++, and gdb
- Text-only interface (various GUIs can easily be added)
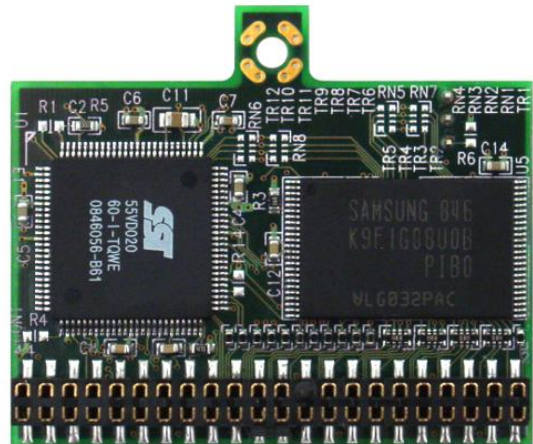
Software Development Kit Contents

Each Linux SDK includes:

- A Linux 2.6.23 Software Development Kit CD for the target single board computer
- A 1.2 x 1.7-inch flashdisk with a bootable Linux image for the target single board computer
- An Installation Guide with easy-to-follow instructions to get started

Each Linux 2.6.23 SDK CD includes a binary image of the flashdisk's contents, which can be copied freely onto additional flashdisk modules during the end product's manufacturing process. The SDK CD also contains full source code of the kernel and the root filesystem – plus a complete GNU development toolchain -- making it easy to add code, libraries, or applications, and rapidly develop custom images using a "known good" build and tools environment.

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Availability and Pricing

The following Linux 2.6.23 SDK models are immediately available for use with the Diamond processor board products indicated:

Linux SDK Model	Supported Processor Board	CPU Supported	SDK Flash Disk Size	Qty 1 price
SDK-ATHM-LNX	Athena II SBC	VIA Mark	512MB	$235
SDK-HLV-LNX	Helios SBC	DMP Vortex86	128MB	$200
SDK-HRC-LNX	Hercules II SBC	VIA Mark	512MB	$235
SDK-NPT-LNX	Neptune ERS	Intel Atom, Core Duo, Core 2 Duo	512MB	$235

About Diamond

Diamond Systems Corporation is a leading worldwide supplier of compact, rugged, board-level embedded computers, I/O interface modules, and fully-integrated systems targeting fixed and mobile applications. The company was an early adopter of PC/104 technology and today is one of the leading suppliers of PC/104 I/O modules and highly-integrated single board computers with on-board data acquisition and control capabilities. The privately held company was founded in 1989, and 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

Further details are available from the following product pages on Diamond's website:

- **Linux Software Development Kits**
- **Universal Driver software**
- **Athena II single board computer**
- **Helios single board computer**
- **Hercules II single board computer**
- **Neptune embedded-ready subsystem**
- **High resolution FlashDisk photo**

DIAMOND SYSTEMS CORPORATION
1255 Terra Bella Ave.
Mountain View, California 94043 USA

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Tel (650) 810-2500
Fax (650) 810-2525
www.diamondsystems.com