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Media Contacts:

Andrew Ferrari   Blackhawk   877-983-4514   andrew@blackhawk-dsp.com

Advanced Development Tool is key to Peak Performance

Save development time and get the best performance from TI's TMS320C6455 DSP Evaluation Module (EVM) with matching development tool from Blackhawk.

HOUSTON – TI DEVELOPER CONFERENCE and Mt. Laurel, NJ (February 28, 2006) – Blackhawk™ announced today that its USB560 JTAG Emulator is available with the TI TMS320C6455 digital signal processor (DSP) EVM bundle. The C6455 device from TI is the first DSP to integrate a Serial RapidIO bus to provide chip level connect and processor-to-processor communication up to 10 Gbits per second full duplex interconnectivity. Making better use of the inherent capabilities of the C6455 DSP, the USB560's performance enhancements and advanced capabilities greatly save development time and effort.

TI's C6455 DSP EVM satisfies the need for high-performance, flexible and scalable silicon and tools, facilitating reduced development costs and time-to-market. The C6455 DSP EVM also enables developers to design high-quality, differentiated products in telecommunications, network and video infrastructure end-equipments and high-end imaging systems. Based on the TMS320C64+™ core, the C6455 DSP provides improved performance, new instruction sets, and more compact code size. It is 100% code compatible with previous TMS320C64x™ devices.

The compact and lightweight USB560 features a variable timing clock (TCK) running up to 35 MHz and includes a flexible 5-½ foot multi-voltage cable/pod assembly. A USB 2.0-compliant controller, operating at 480 megabits per second (Mbps) for increased speed and faster code download performance is standard on all Blackhawk emulators. The USB560 can achieve code download speeds of up to 500 Kbytes per second, shortening start-up times for larger applications such as video and imaging that have large code sizes. The USB560 also enables real-time, non-intrusive Advanced Event Triggering capabilities, including event sequence detection, extended benchmarking and program range breakpoints.

"TI's pairing of our USB560 JTAG emulator with the C6455 DSP EVM will benefit developers by enabling them to leverage the advanced capabilities of TI's newest DSPs," said Andrew Ferrari, director of DSP operations, Blackhawk. Ferrari added, "It makes perfect sense to combine the high-speed USB560 JTAG emulator with the high-performance C6455 so developers can increase productivity and peak performance."

The C6455 EVM and DSK bundle includes all the hardware, software and tools necessary to immediately begin development of next generation multichannel

equipment. The C6455 DSP has TI's new C64x+ core that provides a 20-30% reduction in code size and a 20% performance boost. The C6455 DSP also has doubled the instruction/data caches to 32KB each and doubled the L2 cache to 2MB. The EVM board supports 10Gbits/s sRIO chip-to-chip interconnect, 500MHz DDR2, PCI 66MHz and 10/100/1000 Ethernet.   TI's Platinum Code Composer Studio™ IDE (Integrated Development Environment), the industry's most comprehensive IDE for DSP development, is included with the bundle. Additionally, developers can take advantage of the DSP/BIOS™ Real-Time Kernel, peripheral drivers, sRIO Message Queue, tutorials, examples, and algorithms, also included.

"Using the C6455 DSP EVM, which includes the AMC sRIO C6455 DSP mezzanine daughtercard, TI's video infrastructure, telecommunications infrastructure and imaging, customers can immediately begin code development for next-generation infrastructure equipments requiring high bandwidth interconnect," said Danny Petkevich, worldwide C6000 DSP platform marketing manager. "TI added Blackhawk's USB560 emulator to its world-wide distribution channel in 2004. Since that time, the USB560 has become the emulator of choice for development of sophisticated multichannel applications."

Pricing and Availability
The Blackhawk USB560 is available in two models, a North American version (P/N: TMDSEMU560U) and a European Model (P/N: TMDSEMU560U-OE). Both models are priced at $2,999 and can be purchased through TI's Distribution Channel Partners that include Arrow Electronics, Avnet, Digi-Key, Memec Insight and Newark InOne. In addition, the USB560 is available online via TI's eStore at www.ti-estore.com and from a world-wide reseller network.

About the Texas Instruments Third Party Program
Blackhawk is a member of TI's TMS320™ third party program, the most extensive collection of global DSP development support in the industry. With more than 650 independent companies and consultants, TI's customers have easy access to a broad range of application software, development hardware and software and consulting services. For more information on the TI third party program, please visit www.ti.com/3p.

About Blackhawk
Blackhawk™, a division of EWA Technologies, Inc., of Herndon, Virginia, provides hardware and software for the rapid development of DSP-based applications for a wide variety of vertical markets. Blackhawk™ is a TI DSP total solutions provider for development hardware, advanced JTAG emulators, Real-Time Operating Systems, design services and consulting. For more information on Blackhawk, please visit http://www.blackhawk-dsp.com.