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Blackhawk™ Tops Performance With New USB510 JTAG Emulator for Texas Instruments DSPs

HOUSTON – TI DEVELOPER CONFERENCE & Mount Laurel, N.J. (February 15, 2005) – Blackhawk™, a leader in the design of digital signal processor (DSP) hardware and software development tools, announced today at the Texas Instruments Developer Conference that it has begun delivery on a successor to the best-selling XDS510-class USB 2.0 emulator, the Blackhawk USB510 JTAG Emulator (USB510).

The new USB510 shares the same physical dimensions of the previous model, making it the smallest and most compact design of any USB JTAG emulator. The credit card-sized unit features a variable TCK (timing clock) running up to 50 MHz and includes a highly flexible micro-coax JTAG cable. A bi-color LED has also been added to show operational status. The Blackhawk USB510 (US$1,750.00 list) uses a USB 2.0-compliant controller, which achieves speeds up to 480 megabits per second (Mbps) for increased speed and faster code download performance, which greatly reduces the wait time to download large video and imaging applications.

The Blackhawk USB510 requires no external power, deriving its power source from the PC's USB bus. The Windows® USB hardware plug-and-play installation is simple and does not require opening the PC to install the emulator - the USB interface is the ideal solution for mobile debugging using a notebook computer. In addition to an extensive repertoire of TI DSP support, the USB510 can also interface to legacy devices, such as the VC33, extending compatibility to more Texas Instruments DSP devices and Code Composer Studio™ (CCStudio) IDE versions than any other XDS510™-class emulator.

"It wasn't an easy task to improve on the reliable USB 2.0 design," said Brian Nix, president, EWA Technologies, Inc., the parent company of Blackhawk. "We did it by boosting the performance and including features to simplify installation without increasing the price."

During tests, the USB510 downloaded code to C6416 and DM642 targets at over 400 KBytes/second. This is roughly five times faster than competitive XDS510 emulators. Comparison download rates on other TI TMS320C6000™ DSPs, such as the C6711 and C6713, were just as impressive. These tests were performed on a USB 2.0 port of an Intel Pentium 4 PC running the Windows XP operating system at 2.6GHz using Code Composer Studio v2.21 and v3.0.

The Blackhawk USB510 JTAG emulator supports TI's TMS320, TMS470 (ARM) and OMAP families. Legacy support for Code Composer v4.1x and CCStudio v1.2 gives users access and compatibility to VC33, C20x and C24x. The USB510 JTAG Emulator is also compatible with the Code Composer Studio flash-burner utility.

All Blackhawk Emulators are available exclusively in the US & Canada through Ultimate Solutions (USI), based in Tewksbury, Mass., and a worldwide network of industry resellers. Please visit www.blackhawk-dsp.com/reseller.asp for a complete list.

About Texas Instruments Third Party Program

Blackhawk™ is a member of Texas Instruments Third Party Program. The Third Party Program is the most extensive collection of DSP development support in the industry. More than 650 independent companies and consultants provide products including development boards, operating systems, software algorithms, function libraries and systems consulting services around the world. For more information on the TI Third Party Program, please visit www.dspvillage.ti.com/v5.

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