

# Blackhawk™ USB560v2 System Trace for TI Devices

TI Devices: C6000, C5000, C2000, OMAP, DAVINCI, SITARA, TMS470, TMS570, ARM 7/9, ARM Cortex A8/R4/M3 and more

Compatible Operating Systems: Windows® (2000/XP/Vista/7) and Linux (RedHat/Fedora/Ubuntu/SUSE, etc.) 32 and 64-bit editions

Part Number: BH-USB-560v2

The Blackhawk USB560v2 System Trace Emulator (USB560v2) is based on the Texas Instruments XDS560v2 JTAG emulator reference design (XDS560v2). The XDS560v2 design is the next-generation of the high-performance XDS560-class technology first made available by Blackhawk with the USB560/LAN560 and XDS560 Trace.

The USB560v2 design includes a bus-powered, high-speed USB 2.0 host interface, bi-color state and activity LEDs and a flexible ribbonized coax JTAG cable. The compact and portable USB560v2 adds support for IEEE1149.7 and the system trace module (STM), an interface on the TI heterogeneous multi-core (ARM + DSP) devices.

**All Blackhawk XDS560v2 models support STM.**

The JTAG cable comes with a native MIPI 60 connection and the unit ships with three (3) pin converters for connection to target boards with 14-pin TI, 20-pin compact TI and 20-pin ARM headers.

Blackhawk provides a comprehensive debug interface utility, Bh560v2Config, that users can use to search for, setup and test the USB560v2. The testing capability of the utility includes both host and target interface options. The Bh560v2Config utility works with all Blackhawk XDS560v2 models via USB and Ethernet on Windows and Linux platforms.

Blackhawk Advanced JTAG Emulators are available from a world wide network of industry resellers and distributors.



## Standard Features of the Blackhawk USB560v2

- Supports Code Composer Studio v4.2 or later and all Ctools enabled devices
- Flexible 8.0 inch JTAG cable with native 60-pin MIPI HSPT Target Connection
- Includes 20-pin compact TI (cTI), 14-pin standard TI and 20-pin ARM Adapters
- Supports JTAG 1149.1 and 1149.7
- Auto-Adaptive T-clock (TCLK) up to 50MHz
- Auto Sensing Target voltage range from 1.2v to 4.1v
- JTAG Debug Isolation, JTAG loop-back Modes and Boot Mode EMU0 & EMU1
- Supports 1-4 pin System Trace with 128 Mbytes of System Trace Buffer
- Up to 100MHz export clock compliant to MIPI STP
- Auto compensating calibration for edge jitter, channel skew and duty cycle
- Adaptive receiver for setup/hold times up to 1.5ns
- High-Speed USB 2.0 port @ 480Mbit/sec
- Supports Mobile Industry Processor Interface (MIPI)
- Supports System Trace Protocol (STP) and High-speed Parallel Trace (HSPT)
- Two (2) bi-color status, state and activity LEDs

## Items Included in the Box

1. USB560v2 System Trace Emulator Pod with System Trace Coax JTAG Cable
2. Pin Converters (3): TI14, cTI20, and ARM20 targets
3. USB Cable
4. Quick Start Guide
5. CDROM
6. Warranty and Product Registration Information

## ABOUT BLACKHAWK

EWA Technologies, Inc. is a major global player in the application of the IEEE 1149.x standards (known as boundary-scan or JTAG) to state-of-the-art products that will support the design, prototyping and production of the next generation of complex technology products. EWA Technologies consists of two operating units: the Blackhawk™ division in Mount Laurel, NJ, and Corelis, Inc. in Cerritos, CA. The Blackhawk™ division is a leader in providing hardware and software for the rapid development of digital signal processor-based (DSP) applications for a wide variety of vertical markets. Blackhawk™ is a Texas Instruments® (TI) DSP Third Party provider for development hardware, advanced JTAG emulators, Real-Time Operating Systems, design services and consulting.

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