

# Blackhawk™ XDS560™ Trace System for TI DSPs

TI DSP platforms: TMS320C6645x™, TMS320C64x™,  
TMS320C641x™, TMS320DM64x™

Compatible Operating Systems: Windows® 2000, XP and Vista

The Blackhawk XDS560™ Trace System is a non-intrusive, hardware-based trace tool offering advanced visibility and capabilities for debugging the specialized problems that arise in high-performance, real-time embedded applications, and for fine-tuning code performance and cache optimization. Real-time visibility and a high-speed interface provide developers with the detailed information they require to determine where and why complex, intermittent problems occur.

The XDS560 Trace uses a circular buffer to build a complete history of application execution with a non-intrusive, real-time data capture. Integrated timestamping, and the ability to correlate data values to the processor's Program Counter, enables a developer to step backwards through time to reconstruct errors.

With the ability to non-intrusively capture every cycle count for every line of code, fine tuning code performance and cache optimization of complex, switch intensive multi-channel applications is now possible.

The XDS560 Trace System is comprised of the TI XDS560 Trace Module and the Blackhawk USB560 Emulator and is backward compatible to standard JTAG debug. Windows® 2000, XP and Vista drivers are provided and are available for download free-of-charge from our website.

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

## ABOUT BLACKHAWK

Blackhawk™ is the first to introduce a USB JTAG Emulator for Texas Instruments DSPs and is a member of the Texas Instruments Third Party Network. Blackhawk™ is a business unit of EWA/EWA Technologies, Inc. with headquarters in Herndon, Virginia. Founded in 1977, EWA, Inc., is a broad-based technology company with 1,000 employees located in corporate offices and on-site throughout the U.S., Canada, and Australia providing professional services and specialized products to both U.S. and foreign customers. Committed to quality and customer support, EWA prides itself on overcoming technological challenges, delivering on-time for its customers, and providing continuing service.



## Features

- Non-intrusive high-speed data trace
- Single, independently clocked input channel
- Independently de-skew data pins on channel initialization
- Up to 167 MHz dual edge data rate (i.e. 333 MHz)
- High-speed USB 2.0 (480 Mbits/sec) host port interface
- Fully integrated with CCStudio Advanced Event Triggering (AET)
- Real-time code and event profiling
- Customizable output Trace Display for post analysis

## System Requirements

- PC running Windows® 2000, XP or Vista
- Code Composer Studio IDE v3.3 or later
- Free USB 1.1 or 2.0 port (2.0 recommended)
- CD-ROM drive for driver installation
- Target Board with 60-pin JTAG connector

## Part Number BH-XDS-560T

# Blackhawk Emulators

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