# Blackhawk™ USB510W
# Wireless JTAG Emulator

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

**Compatible Operating Systems:** Windows® 2K, XP, Vista & 7



The Blackhawk USB510W is the first of its kind wireless JTAG emulator for Texas Instruments DSPs. The USB510W has an embedded 802.11 wireless transceiver and requires no hard connection to a PC in order to debug using Code Composer Studio. The major benefit of this capability is to completely isolate the PC from the target therefore eliminating the chance for high-voltage damage of test components. This protects the target board, PC and emulator from voltage spikes and the absence of a common ground plane.

Configuration of the USB510W is accomplished via the USB port in the same fashion as setting up a wireless router. Or, the USB510W can be used wirelessly right out of the box using the default settings suitable for most wifi networks. And of course, the USB510W can also be used for debugging via the high-speed USB port. The integrated wireless transceiver chip of the USB510W is capable of supporting the following wireless protocols and speeds:

802.11n:  6.5, 13, 19.5, 26, 39, 52, 58.5, & 65 Mbps

802.11ag: 6, 9, 12, 18, 24, 36, 48, & 54 Mbps

802.11b: 1, 2, 5.5, & 11 Mbps

Blackhawk is a recognized leader in providing advanced JTAG Emulators for Texas Instruments DSPs and the first company to develop a USB JTAG Emulator for TI TMS320™ DSPs. Our XDS510™-class emulators & controllers provide a full range of features and benefits with support for a wide-range of TI DSPs. Blackhawk XDS510-class JTAG Emulators & Controllers are also compatible with Code Composer Studio™ Flash-burner utility.

## Features

- Wireless 802.11 XDS510™-class Controller
- 1.8/3.3/5.0 volt device I/O support
- Auto-sensing low I/O voltage support
- 20-pin cTI (compact TI) JTAG Header Connector
- Code Composer Studio v3.3 SR2 or later
- Bi-Color Status LED (red/green)
- Full CCStudio IDE compatibility
- Windows® Plug n' Play Installation
- Drivers are provided for Windows® XP, Vista and Windows 7 including 64-bit support
- All driver updates are available for download free-of-charge from our website
- Compatibility with the CCStudio Flashburn plugin and Blackhawk FlashBurn Utility add-on
- Free technical support and web downloads
- One Year Warranty
- Fully assembled and tested in the US
- RoHS Compliant

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

## System Requirements

- PC running Windows® 2000, XP, Vista or 7
- CCS v4.2 and later
- 2.0 GHz or faster Pentium or compatible
- USB port
- Local CD-ROM drive for installation
- 1 GB RAM

## Part Number: BH-USB-510W

# Blackhawk Emulators

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