

# Blackhawk™ USB2000 Controller for TI DSPs

TI DSP platforms: TMS320C2000™ Family

Compatible Operating Systems: Windows® 2000, XP and Vista

The *Blackhawk USB2000 Controller* is a small and lightweight controller designed for the unique requirements of the Texas Instruments TMS320C2000 DSP developers.

Built upon the advanced technology of the highly-popular USB510, this 3rd generation controller achieves the cost/performance balance required by the C2000 development community. The compact controller pod requires no external power source. Power is derived directly from the PC's USB port.

The controller supports the standard 14-pin JTAG header and voltage ranges from 3.3 to 5.0v. The USB host port permits communications with the host PC and the bi-color status LED gives visual indication of the controllers state.

A free add-on to the USB2000 Controller is the Blackhawk FlashBurn utility. This scriptable utility follows the freely available Texas Instruments API and algorithms for programming C2000 devices with on-chip flash. BHFlashBurn integrates seamlessly with the Flash API allowing the ability to Clear, Erase and Program on-chip flash on the target device.

Blackhawk also has available an optional Isolation Adapter which protects from ground loop voltage, harsh environments and new, untested designs. Supports 3.3-5.0v targets with TI 14-pin connections.

Blackhawk JTAG Emulators and Emulation Software are

## 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.



## Features

- Super Low-Cost XDS510™-class Controller.
- Plug n' Play USB Host Interface.
- Supports TI C2000 Digital Signal Processors
  - F283x
  - F281x
  - F280x
  - F280xx
  - LF240x
- 3.3/5.0 volt device I/O support.
- Bi-Color Status LED (red/green).
- Code Composer Studio v3.3 support.
- Blackhawk FlashBurn utility add-on.

## System Requirements

- PC running Windows® 2000, XP or Vista
- 15 MB of free hard disk space
- 2.0 GHz or faster Pentium or compatible
- USB port
- Local CD-ROM drive for installation
- 512 MB RAM

Part Number: USI13-2100

# Ultimate Solutions, Inc.

10 Clever Lane • Tewksbury, MA 01876-1580 • 866.455.3383 • [www.ultsol.com](http://www.ultsol.com)

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