

Blackhawk™ TALON RTOS for TI DSPs

TI DSP platforms: C6000, C5400, C5500, C3x4x, C2000

The **Blackhawk™ TALON™ OS** is a POSIX-compliant real time operating system, the perfect software platform for designing and implementing application software for Texas Instruments TMS320 digital signal processors (DSP). Talon™ offers unsurpassed power and flexibility, providing the solution for sophisticated high-performance application development.

On the surface you see a well-defined, documented and supported application programming interface (API) across all our supported platforms. But our performance is not compromised by porting from one architecture to another. Each kernel is optimized for each DSP platform to achieve the highest possible performance.

POSIX® is an IEEE Standard for Information Technology - Portable Operating System Interface. This standard has provided a stable framework for both operating system designers and application programmers. While the touch and feel of the standard is UNIX-like, the POSIX interfaces are rigorously defined, therefore ensuring predictable behavior of compliant applications. There are many benefits to using standardized operating system interfaces.

- Well-defined and standardized operating system services provide for design of reliable and robust application software.
- Application compliance to POSIX ensures smooth software portability between hardware platforms.
- Standard OS interfaces enhance programmers' productivity by encouraging them to comply with proven and efficient programming practices.
- The availability of numerous portable utility programs allows the programmer to work in a comfortable and

Part Numbers

Part No.:	USI13-1000	for TI C2000 DSPs
	USI13-1001	for TI C3x and C4x DSPs
	USI13-1002	for TI C54x DSPs
	USI13-1003	for TI C55x DSPs
	USI13-1004	for TI C6000 DSPs

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Features

- Royalty Free — Includes full source code
- Optimized for each TI DSP family
- Real-Time Multithreaded pre-emptive kernel
- Host to Target Communication Utilities
- Dynamic Shared Library Allocation
- Three completely configurable File Systems
- Small OS Footprint
- Completely "Thread Safe" run-time libraries
- POSIX® Compliant
- Board Support Packages Available
- Affordable price

System Requirements

- PC running Windows® 98, ME, 2000, XP
- Code Composer or Code Composer Studio IDE
- CD-ROM drive for software installation
- Target hardware with standard JTAG header

ABOUT BLACKHAWK

Blackhawk™ is the first to introduce a USB JTAG Emulator for Texas Instruments DSP's and is a member of the Texas Instruments Third Party Developers Network. *Blackhawk™* is a business unit of EWA/EWA Technologies, Inc. with headquarters in Herndon, Virginia. Founded in 1977, EWA employs more than 1,000 people in eight operating units and associated activities around the world providing a wide range of IT applications to a broad constellation of government and commercial customers, including the US Department of Defense and all military services, national intelligence and law enforcement agencies, NASA, and international defense, security and banking organizations.

