Protect Your Investment in Software

Spectrum’s software-based model promotes faster time-to-market and easy, extensible product development. These tools create an easy-to-use environment that optimizes C6x performance and minimizes technical barriers to software and hardware design. For designers, the direct result is faster time-to-market with highly integrated and differentiated products.

Spectrum’s C6000 solutions come with an advanced development environment featuring:

- Support for hosts Windows NT®, Solaris™, VxWorks®
- Software Development Kit
- Host Libraries Libraries
- DSP Function Libraries
- Example Source Code
- Complete Documentation
- Installation Guide
- Programmer’s Guide
- Texas Instruments Code Composer Studio™: a fully integrated suite of DSP software development tools
- Code Composer Kit: scripting language, editor, vi editor, project manager, and C-based scripting language
- DSP/BIOS™ with RTDX
- VLIW C Compiler, Assembly Optimizer, and linker tools
- Instruction set architecture simulation

Spectrum’s Diamond RTOS

- A multi-tasking, multi-threading real-time microkernel that lets the developer cut in efficiently handling networks of processors
- Virtual communication channels provide a standardized inter-processor communication facility to any node
- Configuration software that makes it easy to optimize system performance by tuning tasks around a static interconnection network
- Configuration software that acts as a build toolserver for debugging, monitoring and test applications
- Allows for application portability across DSP architectures and generations

Base your design on products that deliver the full processing power of Texas Instruments’ TMS320C6000 family of DSPs. Spectrum’s DSP platforms combine the best of all worlds with DSP solutions that take the bar in performance, set new levels in cost efficiency and offer the highest flexibility. Spectrum’s uniquely architected combination of standard board platforms, cross-platform IDE solutions, and easy-to-use software tools allow you to rapidly develop and deploy new products.

Spectrum’s solutions are fully configurable through IDE expansion module sites. Spectrum’s C6x products support industry standard I/O including Industry Pak™ and PMC modules, as well as high performance Processor Expansion Modules (PEMs) which provide direct access to the C6000 bus.

Don’t rewrite task schedulers, I/O routines, and algorithms from one project to the next. Spectrum ensures reuse of standard software components with Diamond, an advanced multi-processor RTOS that enables applications to migrate from different platforms, and even new generations of DSPs, with minimal changes.

Spectrum’s solutions come with a full-featured development environment featuring:

- Support for Windows NT®, Solaris™, VxWorks®
- Code Composer Studio™, a fully integrated suite of DSP software development tools
- Code Composer Kit: scripting language, editor, vi editor, project manager, and C-based scripting language
- DSP/BIOS™ with RTDX
- VLIW C Compiler, Assembly Optimizer, and linker tools
- Instruction set architecture simulator

FREE ON-LINE C6000 TECHNICAL TRAINING WORKSHOP ($1100 VALUE)
Visit: www.spectrumsignal.com/training/
£6000 V0 Products

Spectrum offers IndustryPack™ V0 digital signal processors (DSPs) designed to deliver maximum efficiency and performance. Features including a high-performance distributed shared memory; large FIFOs; and Spectrum's exclusive Hurricane ASIC technology, result in substantially higher throughput and system densities over competing technologies.

£6000 V0 Carrier Boards

Spectrum's revolutionary, high-performance £6000 board architectures have been designed to ensure maximum DSP performance. Features including a high-performance distributed shared memory; large FIFOs; and Spectrum's exclusive Hurricane ASIC allow peripheral I/O for virtually any application to be easily configured and integrated. Spectrum offers IndustryPack™ V0 Carrier Boards, Processor Expansion Modules (PEMs), PMC modules, analog I/O modules, as well as custom £0 if required.

£6000 Digital Radio Products.

Spectrum’s digital radio receiver solutions are based on Spectrum’s Processor Expansion Module (PEM) open specification and BEE’s PMIC standards. This suite of modular boards is extremely flexible—allowing customers to scale their system—and operate with Spectrum’s high-performance £6000 carrier boards. Spectrum’s digital radio solutions include Analog Input modules, Down Converter modules, and A&D Converter modules.

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