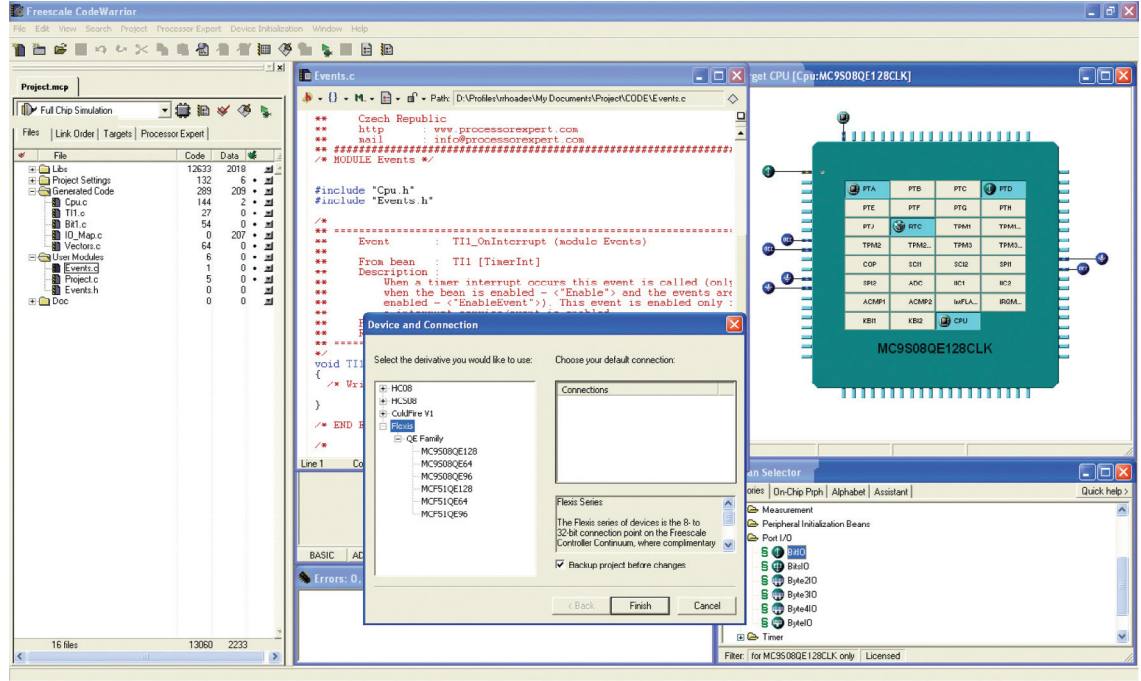


CodeWarrior™ Development Studio for Microcontrollers V6.3

Flexible Tools to Maximize Your Market Impact

Freescale's CodeWarrior™ Development Studio for Microcontrollers V6.3 is a single, integrated tool suite designed to get you on the design fast track with RS08, HC(S)08 and V1 ColdFire® members of the Freescale Controller Continuum. Whether your design is an 8-bit, entry-level application (e.g. smoke detector) or a 32-bit, high-end application (e.g. fire alarm control panel), CodeWarrior Development Studio for Microcontrollers provides optimized tools to take full advantage of the Freescale microcontroller you selected for your design.



Re-Target Your Application in Four Mouse Clicks

The award-winning CodeWarrior tool suite goes well beyond basic code generation and debugging—if market requirements change mid-project, the MCU Change Wizard allows you to re-target the project to a new microcontroller in as few as four mouse clicks. Simply select a new microcontroller (from the same or a different architecture—RS08, HC08, HCS08, or ColdFire V1), select the default connection and the CodeWarrior tool suite automatically reconfigures your project for the new microcontroller with the correct build tools (compiler, assembler, linker) and the

appropriate support files (header files, libraries and linker files). For projects switching between 8-bit and 32-bit Flexis™ series microcontrollers this is the extent of the porting effort.

Porting Assistance at Your Fingertips

To move other 8-bit applications to V1 ColdFire a porting guide is provided, which details the differences between the architectures and the impact these differences have on software design. The V1 ColdFire compiler also flags code that needs to be manually inspected and ported (assembly code, interrupt service routines).

Easy Migration with Processor Expert™

If you use Processor Expert—a rapid application design tool integrated into the CodeWarrior tool suite—migrating between Freescale microcontrollers is a breeze. Just define the functionality you need for your application and Processor Expert generates tested, optimized C-code tuned for your application and the selected microcontroller. When you change the microcontroller with the MCU Change Wizard, Processor Expert maps the software and peripheral components that describe your application's functionality to the resources available on the new microcontroller. All you have to do is resolve any resource issues flagged by Processor Expert and you're finished.



CodeWarrior Development Studio provides the capabilities required by every engineer in the development cycle: from board bring-up to firmware development to final application development.

Features	Benefit	Special Edition	Basic Edition	Standard Edition	Professional Edition
IDE					
Project Wizard	Gets you up and programming fast.	Yes	Yes	Yes	Yes
Program Manager	Eliminates confusing and often complex make-files with visual preference panels.	Unlimited	Unlimited	Unlimited	Unlimited
<ul style="list-style-type: none"> Projects Sub Projects 		Yes	Yes	Yes	Yes
Build Tools					
Macro Assembler for HC(S)08, RS08 and V1 ColdFire® MCUs	For specific optimizations only you can provide.	Unlimited	Unlimited	Unlimited	Unlimited
Optimizing Compiler for HC(S)08, RS08 and V1 ColdFire MCUs	Reduces code size and maximizes the capabilities of the microcontroller to achieve top performance.	HC(S)08/RS08: C-32 KB, V1 ColdFire: C-64 KB	HC(S)08/RS08: C-64 KB, V1 ColdFire: C-128 KB	C-Unlimited	C-Unlimited C++-Unlimited
Libmaker	Allows reuse and maintenance of code through libraries.	Yes	Yes	Yes	Yes
Debug Tools					
Source-Level Debugger	Speeds debug cycles by viewing the source code as it executes.	ASM-Unlimited HC(S)08: C-32 KB V1 ColdFire: C-64 KB	ASM-Unlimited HC(S)08: C-64 KB V1 ColdFire: C-128 KB	ASM-Unlimited C-Unlimited	ASM-Unlimited C-Unlimited C++-Unlimited
Flash Programming	Fully integrated flash programming improves the build-debug cycle because it automates your downloads.	Yes	Yes	Yes	Yes
Simulator	Reduces costs and eliminates possible hardware issues during development.	Yes	Yes	Yes	Yes
Decoder	Allows you create listings of ELF files.	Yes	Yes	Yes	Yes
Data Visualization and I/O Stimulation	Lets you see how your program effects peripherals and responds to outside input.	One Component/ Three Elements	One Component/ Three Elements	Unlimited	Unlimited
OSEK Awareness	Ready to work with OSEK, for RTOS-aware debug capabilities.				Yes
Session Record and Play	Automates repetitive debug cycles during program validation.				Yes
Advanced Tools					
Device Initialization for HC(S)08/RS08 and V1 ColdFire MCUs	Allows you to graphically set up the CPU peripheral registers and generate initialization code (ASM or C) tailored to your application.	Yes	Yes	Yes	Yes
Processor Expert™ for HC(S)08 and V1 ColdFire MCUs	Abstracts the hardware layer and generates optimized, microcontroller-specific code (C) tailored to your application, so you can concentrate on design.				
<ul style="list-style-type: none"> Basic Beans Software Beans Advanced Beans 		Yes	Yes	Yes	Yes
Bean Wizard		Allows you to create reusable software components, which can be easily retargeted to any Freescale hybrid, HC(S)08 or HC(S)12 microcontroller.			
Profile Analysis and Code Coverage	Gives you visibility into your running program to allow fine tuning and better quality metrics.				Yes
PC-Lint Plug-In	Ensures compliance with MISRA and other code quality and style guidelines.				Yes

Service Packs, which add support for new devices, are also available at www.freescale.com/codewarrior/downloads.

