

CodeWarrior Development Studio for Freescale HCS12(X) Microcontrollers

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.

Feature	Benefit	Special Edition	Standard Edition	Professional Edition
IDE				
Project Wizard	Gets you up and programming fast.	Yes	Yes	Yes
Program Manager > Projects > Sub Projects	Eliminates confusing and often complex make files with visual preference panels.	Up to 32 files* No*	Unlimited Yes	Unlimited Yes
Build Tools				
Macro Assembler	For specific optimizations only you can provide.	HCS12(X): ASM - Unlimited XGATE: ASM - Unlimited	HCS12(X): ASM - Unlimited XGATE: ASM - Unlimited	HCS12(X): ASM - Unlimited
Optimizing Compiler	Reduces code size and maximizes the capabilities of the microcontroller to achieve top performance.	HCS12(X): C - 32K HCS12(X): C++ - 1K XGATE: C - 512 bytes XGATE: C++ - 512 bytes	HCS12(X): C - Unlimited HCS12(X): C++ - 1K XGATE: C - Unlimited XGATE: C++ - 512 bytes	XGATE: ASM - Unlimited HCS12(X): C - Unlimited HCS12(X): C++ - Unlimited XGATE: C - Unlimited XGATE: C++ - Unlimited
Libmaker	Allows reuse and maintenance of code through libraries.		Yes	Yes
Debug Tools				
Source-Level Debugger	Speeds debug cycles by viewing the source code as it executes.	HCS12(X): ASM - Unlimited HCS12(X): C - 32K HCS12(X): C++ - 1K XGATE: ASM - Unlimited XGATE: C - 512 bytes XGATE: C++ - 512 bytes	HCS12(X): ASM - Unlimited HCS12(X): C - Unlimited HCS12(X): C++ - 1K XGATE: ASM - Unlimited XGATE: C - Unlimited XGATE: C++ - 512 bytes	HCS12(X): ASM - Unlimited HCS12(X): C - Unlimited HCS12(X): C++ - Unlimited XGATE: ASM - Unlimited XGATE: C - Unlimited XGATE: C++ - Unlimited
Flash Programming	Fully integrated flash programming improves the build-debug cycle because it automates your downloads.	Yes	Yes	Yes
Simulator	Reduces costs and eliminates possible hardware issues during development.	Yes	Yes	Yes
Data Visualization and I/O Stimulation	Let's you see how your program effects peripherals and responds to outside input.	1 components/ 3 elements	Unlimited	Unlimited
Decoder	Allows you create listings of ELF files.		Yes	Yes
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				
Processor Expert > Basic Beans > Software Beans > Advanced Beans	Abstracts the hardware layer and generates optimized, microcontroller-specific code tailored to your application, so you can concentrate on design.	Yes	Yes 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 HCS12(X) microcontroller.			Yes
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

* Program Manager limitation removed when 64K compiler installed