

# QUICK REFERENCE GUIDE

For CodeWarrior® Suites



	ColdFire® V2, V3 and V4 Linux® Tools	ColdFire V2, V3 and V4 Bare Board**	56800/E Digital Signal Controllers**	S12(X)
IDE	Classic	Classic	Classic	Classic
Special Editions (Free Tools)	CodeWarrior Development Studio for ColdFire Architectures, Linux Application Edition (Classic, Linux and Windows®) CodeWarrior Development Studio for ColdFire ISA, Linux Platform Edition (Classic, Linux)	CodeWarrior Development Studio for ColdFire Architectures, Special Edition (Classic, Windows)	CodeWarrior Development Studio for DSC56800/E, Special Edition (Classic, Windows)	CodeWarrior Development Studio for S12(X), Special Edition (Classic, Windows)
	Full-featured, 30-day evaluation copies can be downloaded or ordered from www.nxp.com. (Evaluation Part Numbers: CWX-MCF-WLAPP-EX, CWX-MCF-LLPLT-EX (Evaluation))	Classic IDE Unlimited assembler C compiler and C source-level debugger — code and data size restricted to 128 KB Integrated flash programmer Flash tool kit to create flash programming algorithms for external memory devices Device initialization tool Processor Expert® with basic components (Special Edition Part Number: CWX-MCF-SE)	Classic IDE     Unlimited assembler     C compiler and C source-level debugger — code and data size restricted to 64 KB     Standalone and built-in flash programmer     Processor Expert with basic and advanced components     Instruction set simulator     FreeMASTER™ (Special Edition Part Number: CWX-568-SE)	Classic IDE Unlimited assembler C compiler and C source-level debugger — code and data size restricted to 32 KB C compiler and C source-level debugger for our XGATE module (code and data size restricted to 512 KB) Integrated flash programmer Device initialization tool Processor Expert with basic components (Special Edition Part Number: CWX-HXX-SE)
Basic Suite	CodeWarrior Development Studio for ColdFire Architectures, Linux Application Edition (Classic, Windows and Linux)  Classic IDE GNU C/C++ compiler No code size limit Flash programmer unlimited download size Debug multiple threads, processes, applications and shared libraries	CodeWarrior Development Studio for ColdFire Architectures, Basic Edition (Classic, Windows)  Classic IDE Unlimited assembler C compiler and C source-level debugger — code and data size restricted to 512 KB Integrated flash programmer Flash tool kit to create flash programming algorithms for external memory devices Device initialization tool Processor Expert with basic components	CodeWarrior Development Studio for DSC56800/E, 64K Compiler Upgrade Edition (Classic, Windows)  Classic IDE Unlimited assembler Compiler and Cource-level debugger — code and data size restricted to 256 KB Standalone and built-in flash programmer Processor Expert with basic and advanced components Instruction set simulator FreeMASTER	CodeWarrior Development Studio for S12(X), 64K Compiler Upgrade Edition (Classic, Windows)  Classic IDE Unlimited assembler Compiler and Cource-level debugger — code and data size restricted to 64 KB Compiler and Cource-level debugger for our XGATE module — code and data size restricted to 512 KB Integrated flash programmer Device initialization tool Processor Expert with basic components
Standard Suite	CodeWarrior Development Studio for ColdFire Architectures, Linux Application Edition (Classic, Windows and Linux) This product is included in the Basic Suite. See Basic Suite for product details.	CodeWarrior Development Studio for ColdFire Architectures, Standard Edition (Classic, Windows)  Classic IDE Unlimited assembler Unlimited C compiler and C source-level debugger Integrated flash programmer Flash tool kit to create flash programming algorithms for external memory devices Device initialization tool Processor Expert with basic components	CodeWarrior Development Studio for DSC56800/E, Standard Edition (Classic, Windows)  Classic IDE Unlimited assembler Unlimited C compiler and C source-level debugger Standalone and built-in flash programmer Processor Expert with basic and advanced components Instruction set simulator FreeMASTER	CodeWarrior Development Studio for \$12(X), Standard Edition (Classic, Windows)  Classic IDE  Unlimited assembler  Unlimited C compiler and C source-level debugger for HC\$12, HC\$12X and XGATE  Integrated flash programmer  Device initialization tool  Processor Expert with basic components
Professional Suite	CodeWarrior Development Studio for ColdFire Architectures, Linux Platform Edition (Classic, Linux)  Classic IDE GNU C/C++ compiler No code size limit Flash programmer unlimited download size Debug multiple threads, processes, applications and shared libraries Run control CodeWarrior TAP support P&E USB support Abatron BDI-2000/BDI-1000 support	CodeWarrior Development Studio for ColdFire Architectures, Standard Edition (Classic, Windows)  Classic IDE Unlimited assembler Unlimited C/C++ compiler and debugger Integrated flash programmer Flash tool kit to create flash programming algorithms for external memory devices Device initialization tool Processor Expert with basic and advanced components Processor Expert Component Wizard RTOS awareness Profile analysis	CodeWarrior Development Studio for DSC56800/E, Standard Edition (Classic, Windows) This product is included in the Standard Suite. See Standard Suite for product details.	CodeWarrior Development Studio for \$12(X), Standard Edition (Classic, Windows)  Classic, Windows)  Unlimited assembler  Unlimited C/C++/EC++/cC++ compiler and debugger for \$12(X) derivatives and XGATE module  Integrated flash programmer  Device initialization tool  Processor Expert with basic and advanced components  Processor Expert Component Wizard  OSEK kernel awareness  Code coverage  Profile analysis  PC-lint plug-in

<sup>\*\*</sup>This product is a 32-bit application. To install and use it on Windows 7 64-bit machines, see AN3936, "Installing CodeWarrior Classic on Windows 7 (64 bit)" Q1 2014

	ColdFire V1, HC08, RS08, S08**	ColdFire, ColdFire+, DSC, Kinetis®, MPC55xx MCUs, PX, RS08, S08 and S12Z	mobileGT Linux® Tools
IDE	Classic	Eclipse	Classic
	CodeWarrior Development Studio for MCUs, Special Edition (Classic, Windows)	CodeWarrior Development Studio for MCUs, Special Edition (Eclipse, Windows)	CodeWarrior Development Studio for mobileGT Processors, Linux Application Edition (Classic, Linux and Windows)     CodeWarrior Development Studio for mobileGT Processors, Linux Platform Edition (Classic, Linux)
Special Editions (Free Tools)	Classic IDE Unlimited assembler C compiler and C source-level debugger — code and data size restricted to: HC08/RS08/S08: 64 KB ColdFire V1: 64 KB Integrated flash programmer Full-chip simulation (RS08, S08 only) Device initialization tool Processor Expert with basic components (Part number: CWX-HXX-SE)	<ul> <li>Eclipse IDE 4.2.1 (Juno) and CDT 8.1.1</li> <li>Unlimited assembler</li> <li>C source-level debugger/programmer — code and data size restricted to: S08/RS08: 64 KB</li> <li>S12Z: 64 KB</li> <li>ColdFire V1, ColdFire+: 64 KB</li> <li>ColdFire V2-V4: 128 KB</li> <li>DSC: 64 K</li> <li>Kinetis E, L, M Series: 64 KB</li> <li>Kinetis E, Series: 128 KB</li> <li>PX: 512 KB</li> <li>Integrated flash programmer</li> <li>Full-chip simulation for DSC, S08 and RS08 derivatives</li> <li>On-chip trace/profile support for S08, ColdFire V1 and Kinetis devices</li> <li>Real-time trace/profile support for ColdFire and Kinetis devices</li> <li>MOX<sup>TM</sup> kernel-aware debug for Kinetis devices</li> <li>Processor Expert Software: RS08; S08; S12Z; ColdFire+; ColdFire V1-V4; DSC; Kinetis E, L and K series devices (Part Numbers: CWX-MCU-SELH, CWX-MCU-SE)</li> <li>Processor Expert Component Development Environment to develop components for internal use</li> </ul>	Full-featured, 30-day evaluation copies can be downloaded or ordered from www.nxp.com (Evaluation Part Numbers: CWX-MGT-LLAPP-EX/CWX-MGT-LINWH-EX and CWX-MGT-LLPLT-EX)
	CodeWarrior Development Studio for MCUs, Basic Edition (Classic, Windows)	CodeWarrior Development Studio for MCUs, Basic Edition (Eclipse, Windows)	CodeWarrior Development Studio for mobileGT, Linux Applications Edition (Classic IDE, Windows and Linux)
Basic Suite	Classic IDE Unlimited assembler C compiler and C source-level debugger — code and data size restricted to: HC08/RS08/S08: 128 KB ColdFire V1: 128 KB Integrated flash programmer Full-chip simulation (RS08, S08 only) Device initialization tool Processor Expert with basic components	Eclipse IDE 4.2.1 (Juno) and CDT 8.1.1 Unlimited assembler C source-level debugger/programmer — code and data size restricted to: \$08/RS08: 128 KB \$122: 128 KB ColdFire V1, ColdFire+: 128 KB ColdFire V2-V4: 512 KB DSC: 256 K Kinetis K Series: 512 KB Kinetis K, Series: 128 KB Kinetis E, L, M Series: 128 KB Kinetis E, L, M Series: 128 KB Integrated flash programmer Full-chip simulation for S08 and RS08 derivatives On-chip trace/profile support for S08, ColdFire V1 and Kinetis K devices Real-time trace/profile support for ColdFire and Kinetis K devices MQX kernel-aware debug for Kinetis devices Processor Expert Software: RS08; S08; S12Z; ColdFire+; ColdFire V1-V4; DSC; Kinetis E, L and K Series Processor Expert Component Development Environment to develop components	Classic IDE GNU C/C++ compiler No code size limit Flash programmer unlimited download size Debug multiple threads, processes, applications and shared libraries
	CodeWarrior Development Studio for MCUs, Standard Edition (Classic, Windows)	for internal use  CodeWarrior Development Studio for MCUs, Standard Edition (Classic, Windows)	mobileGT, Linux Applications Edition (Classic IDE, Windows and Linux)
Standard Suite	Classic IDE Unlimited assembler Unlimited C compiler and debugger Integrated flash programmer Full-chip simulation (RS08, S08 only) Device initialization tool Processor Expert with basic components	Eclipse IDE 4.2.1 (Juno) and CDT 8.1.1 Unlimited assembler Unlimited C compiler and C source-level debugger Integrated flash programmer Full-chip simulation for S08 and RS08 derivatives On-chip trace/profile support for S08, V1 ColdFire and Kinetis devices Real-time trace/profile support for ColdFire and Kinetis devices MOX kernel-aware debug for Kinetis devices Processor Expert Software: RS08; S08; S12Z; ColdFire+; ColdFire V1-V4; DSC; Kinetis E, L and K Series Processor Expert Component Development Environment to develop components for internal use	This product is included in the Basic Suite. See Basic Suite for product details.
	CodeWarrior Development Studio for MCUs, Professional Edition (Classic, Windows)	CodeWarrior Development Studio for MCUs, Professional Edition (Eclipse, Windows)	CodeWarrior Development Studio for mobileGT, Linux Platform Edition (Classic, Linux)
Professional Suite	Classic IDE Unlimited assembler Unlimited C/C++ compiler and debugger Integrated flash programmer Full-chip simulation (RS08, S08 only) Device initialization tool Processor Expert with basic and advanced components Processor Expert Component Wizard OSEK kernel awareness Profile analysis Code Coverage PC-lint plug-in	Eclipse IDE 4.2.1 (Juno) and CDT 8.1.1     Unlimited assembler     Unlimited C/C++ compiler and debugger     Integrated flash programmer     Full-chip simulation for S08 and RS08 derivatives     On-chip trace/profile support for S08, ColdFire V1 and Kinetis devices     Real-time trace/profile support for ColdFire and Kinetis devices     Processor Expert Software: RS08; S08; S12Z; ColdFire+; ColdFire V1-V4; DSC; Kinetis E, L and K Series     Processor Expert Component Development Environment to develop components for resale     Kernel-aware debug     OSEK turbo: S08 derivatives     Linux: ColdFire V2–V4     MQX*ColdFire V1–V4 ColdFire+, Kinetis     MQX™ Lite: Kinetis	CodeWarrior IDE Unlimited assembler Unlimited C/C++ compiler and debugger GNU compiler support Debug multiple threads, processes, applications and shared libraries Integrated flash programmer Profiler Code coverage PC-lint plug-in

<sup>\*\*</sup>This product is a 32-bit application. To install and use it on Windows 7 64-bit machines, see AN3936, "Installing CodeWarrior Classic on Windows 7 (64 bit)" Q1 2014

	mobileGT Bare Board**	MPC5xx**	MPC55xx MCUs/5xxx
	Classic	Classic	Classic
Special Editions (Free Tools)	CodeWarrior Development Studio for mobileGT Processors (Classic, Windows)	CodeWarrior Development Studio for MPC5xx, Professional Edition (Classic, Windows)	CodeWarrior Development Studio for MPC55xx/ MPC56xx Microcontrollers, Special Edition (Classic, Windows)
	(Evaluation Part Number: CWX-MGT-EX)	• Full-featured, 30-day evaluation copies can be downloaded or ordered from www.nxp.com (Evaluation Part Number: CWX-MPC-5XX-EX)	Classic IDE C compiler and C source-level debugger-code and data size restricted to 128 KB P&E Flash programmer and debugger CodeWarrior build tools can be used with Lauterbach and iSYSTEM debuggers and hardware (Part Number: CWS-MPC-5500-SE)
	CodeWarrior Development Studio for mobileGT, Flash Loader Only (Classic, Windows)	-	_
Basic Suite	Classic IDE Use CodeWarriorTAP to program flash on supported devices Hardware diagnostics to perform memory, address and bus noise testing	_	_
Standard Suite	_	CodeWarrior Development Studio for MPC5xx, Debug Only Edition (Classic, Windows)	CodeWarrior Development Studio for MPC55XX/ MPC56XX, Standard Edition (Classic, Windows)
	_	Classic IDE Unlimited C source-level debugger Hardware breakpoints Unlimited software breakpoints Eventpoints	Classic IDE Unlimited assembler Unlimited C/C++ compiler and source-level debugger P&E flash programmer and debugger Profiler OSEK kernel-aware debugging PC-lint plug-in support
	CodeWarrior Development Studio for mobileGT, Professional Edition (Classic, Windows)	CodeWarrior Development Studio for MPC5xx, Professional Edition (Classic, Windows)	CodeWarrior Development Studio for MPC55XX/ MPC56XX, Standard Edition (Classic, Windows)
	Classic IDE Unlimited assembler Unlimited C/C++ compiler and debugger GNU compiler support Integrated flash programmer Profiler Code coverage PC-lint plug-in	Classic IDE Unlimited assembler Unlimited C/C++ compiler and debugger GNU compiler support Integrated flash programmer OSEK awareness Profiler Code coverage PC-lint plug-in	This product is included in the Standard Suite. See Standard Suite for product details.

<sup>\*\*</sup>This product is a 32-bit application. To install and use it on Windows 7 64-bit machines, see AN3936, "Installing CodeWarrior Classic on Windows 7 (64 bit)" Q2 2016

# Basic Suite (\$1,144.25 Perpetual License/\$454.25 Annual Subscription)\* CodeWarrior Development Studio for ColdFire ISA, Linux Application Edition (Classic, Linux hosted) CodeWarrior Development Studio for ColdFire ISA, Linux Application Edition (Classic, Windows hosted) CodeWarrior Development Studio for ColdFire Architectures, Compiler Upgrade Edition (Classic, Windows hosted) CodeWarrior Development Studio for DSC56800/E, 64K Compiler Upgrade Edition (Classic, Windows hosted) CodeWarrior Development Studio for S12(X), 64K Compiler Upgrade Edition (Classic, Windows hosted) CodeWarrior Development Studio for Microcontrollers, Basic Edition (Eclipse, Linux hosted)\*\* CodeWarrior Development Studio for Microcontrollers, Basic Edition (Eclipse, Windows hosted) CodeWarrior Development Studio for Microcontrollers, Compiler Upgrade Edition (Classic, Windows hosted) CodeWarrior Development Studio for mobileGT, Linux Applications Edition (Classic, Linux hosted) CodeWarrior Development Studio for mobileGT, Linux Applications Edition (Classic, Windows hosted) Standard Suite (\$2,869.25 Perpetual License/\$1,144.25 Annual Subscription)\* CodeWarrior Development Studio for ColdFire Architectures, Standard Edition (Classic, Windows hosted) CodeWarrior Development Studio for DSC56800/E, Standard Edition (Classic, Windows hosted) CodeWarrior Development Studio for Microcontrollers, Standard Edition (Classic, Windows hosted) CodeWarrior Development Studio for Microcontrollers, Standard Edition (Eclipse, Linux hosted)\*\* CodeWarrior Development Studio for Microcontrollers, Standard Edition (Eclipse, Windows hosted) CodeWarrior Development Studio for S12(X), Standard Edition (Classic, Windows hosted) CodeWarrior Development Studio for MPC5xx, Debug Only Edition (Classic, Windows hosted) CodeWarrior Development Studio for MPC55XX/MPC56XX, Standard Edition (Classic, Windows hosted) eTPU(2) Development Suite Pro Suite (\$5,744.25 Perpetual License/\$2,294.25 Annual Subscription)\* CodeWarrior Development Studio for 68K, Professional Edition (Classic, Windows hosted) CodeWarrior Development Studio for ColdFire Architectures, Professional Edition (Classic, Windows hosted) CodeWarrior Development Studio for ColdFire ISA, Linux Platform Edition (Classic, Linux hosted) CodeWarrior Development Studio for DSC56800/E, Standard Edition (Classic, Windows hosted) CodeWarrior Development Studio for Microcontrollers, Professional Edition (Classic, Windows hosted) CodeWarrior Development Studio for Microcontrollers, Professional Edition (Eclipse, Linux hosted)\*\* CodeWarrior Development Studio for Microcontrollers, Professional Edition (Eclipse, Windows hosted) CodeWarrior Development Studio for S12(X), Professional Edition (Classic, Windows hosted) CodeWarrior Development Studio for mobileGT, Professional Edition (Classic, Windows hosted) CodeWarrior Development Studio for mobileGT, Linux Platform Edition (Classic, Linux hosted) CodeWarrior Development Studio for MPC5xx, Professional Edition (Classic, Windows hosted)

For support for any of the following families please visit www.nxp.com/cw4net

CodeWarrior Development Studio for MPC55XX/MPC56XX, Standard Edition (Classic, Windows hosted)

Layerscape<sup>®</sup>

eTPU(2) Development Suite

- QorlQ®
- Power Architecture®
- PowerQUICC®
- StarCore®

Suite Part Numbers							
License Type: Perpetual, Node-Locked	CWP-BASIC-NL (\$1,144.25)	CWP-STANDARD-NL (\$2,869.25)	CWP-PRO-NL (\$5,744.25)				
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License Type: Annual Subscription, Node-Locked	CWA-BASIC-NL (\$454.25)	CWA-STANDARD-NL (\$1,144.25)	CWA-PRO-NL (\$2,294.25)				
License Type: Annual Subscription, Floating	CWA-BASIC-FL (\$454.25)	CWA-STANDARD-FL (\$1,144.25)	CWA-PRO-FL (\$2,294.25)				
Renewal Part Numbers							
Tech Support* Renewal for Perpetual Licenses	CWT-BASIC (\$224.25)	CWT-STANDARD (\$569.25)	CWT-PRO (\$1,144.25)				
Annual Subscription* Renewal	CWA-BASIC-R (\$454.25)	CWA-STANDARD-R (\$1,144.25)	CWA-PRO-R (\$2,294.25)				

<sup>\*</sup> After 12 months, customer needs to renew tech support or annual subscription. The Professional Suite includes all functionality of Standard and Basic Suites. The Standard Suite includes all functionality of the Basic Suite.

<sup>\*\*</sup>The Linux version of CodeWarrior for Microcontrollers (Eclipse) is only available for releases up to and including 10.2.

