Quick Reference Guide for CodeWarrior™ Suites

Freescale CodeWarrior Tools	HCS08/V1 ColdFire®	HCS12	DSC	V2, V3, V4 ColdFire Bare Board	V2, V3, V4 ColdFire Linux® Tools	
Free Tools						
Legacy Part Number	CWX-HXX-SE	CWX-HXX-SE	CWX-568-SE	CWX-MCF-SE	CWX-MCF-WLAPP-EX (Evaluation)	CWX-MCF-LLPLT-EX (Evaluation)
Product Name	CodeWarrior for Microcontrollers, Special Edition	CodeWarrior for HC12, Special Edition	CodeWarrior for 568xx, Special Edition	CodeWarrior for ColdFire, Special Edition	CodeWarrior for ColdFire ISA, Linux Application Edition, Windows Hosted	CodeWarrior for ColdFire ISA, Linux Platform Edition
Product Features	• Unlimited assembler • C compiler limited in C object code size to 32/64 KB and 1 KB C++ • Device Initialization for assembly or C • Processor Expert™ with basic beans • Data visualization/IO stimulation allows for one component with three elements • HIWAVE flash programmer	• Unlimited assembler • C compiler limited in C object code size to 32 KB and 1 KB C++. • Processor Expert with basic beans • IDE limited to 32 files and no sub-project • Up to four targets per project • Data visualization/IO stimulation allows for one component with three instruments	• Assembler limited to 32KB by linker • C compiler limited in C object code size to 32KB • Processor Expert with basic and advanced beans • Data visualization	• Assembly and C language support only • Flash programmer maximum of 128K • Debugger maximum download size of 128K • Freescale USB TAP support • P&E USB/Cyclone Max support • ColdFire Device Initialization beans • ColdFire Processor Expert basic beans	• Full-featured, 30-day evaluation copies (also available via download from **freescale.com**)	• Full-featured, 30-day evaluation copies (also available via download from **freescale.com**)
Basic Suite						
Legacy Part Number	CWS-H08-CUPG-CX	CWS-H12-C64K-CX	CWS-568-C64K-CX	CWS-MCF-CUPG-CX	CWS-MCF-WLAPP-CX/ CWS-MCF-LLAPP-CX	
Product Name	CodeWarrior for Microcontrollers, Compiler Upgrade	CodeWarrior for HC12 64K C Compiler Upgrade	CodeWarrior for 568xx 128KB, Compiler Upgrade	CodeWarrior for ColdFire, Compiler Upgrade	CodeWarrior for ColdFire, Linux Application Edition Windows® hosted/Linux hosted	
Product Features	• Unlimited assembler • C compiler limited in C object code size to 64/128 KB and 1 KB C++ • Device Initialization for assembly or C • Processor Expert with basic beans • Data visualization/IO stimulation allows for one component with three elements • HIWAVE flash programmer	• Unlimited assembler • C compiler limited in C object code size to 64 KB and 1 KB C++. • Processor Expert with basic beans • Up to four targets per project • Data visualization/IO stimulation allows for one component with three instruments	• Assembler limited to 128KB by linker • C compiler limited in C object code size to 128KB • Processor Expert with basic and advanced beans • Data visualization	• Assembly and C language support only • Flash programmer maximum of 512K • Debugger maximum download size of 512K • Freescale USB TAP support • P&E USB/Cyclone Max support • ColdFire Device Initialization beans • ColdFire Processor Expert basic beans	• GNU C/C++ compiler • No code size limit • Flash programmer unlimited dowload size • Debug multiple threads, processes, applications, shared libraries	
Standard Suite						
Legacy Part Number	CWS-H08-STDED-CX	CWS-H12-STDED-CX	CWS-568-CX	CWS-MCF-STDED-CX	n/a	
Product Name	CodeWarrior for Microcontrollers, Standard Edition	CodeWarrior for HC12, Standard Edition	CodeWarrior for 568xx, Full Product	CodeWarrior for ColdFire, Standard Edition	n/a	
Product Features	• Unlimited C compiler/ debugger code size (C++ limited to 1 KB) • Processor Expert with basic and software Beans • Unlimited data visualization/IO stimulation • HIWAVE flash programmer • Decoder	• Unlimited data visualization/IO stimulation • Unlimited assembler for HCS12, HCS12X and XGATE modules • Unlimited C compiler/linker for HCS12, HCS12X and XGATE modules • 1K Limited C++/cC++/EC++ compiler/linker for HCS12 and HCS12X modules • 512 bytes Limited C++/cC++/EC++compiler/linker for XGATE module • No limitation on number of files in the project and subprojects • Processor Expert with basic and software beans • Optional C++/Compact C++/EC++	• Unlimited assembler • Unlimited C code • Processor Expert with basic and advanced beans • Data visualization	• Assembly and C language support only • Flash programmer unlimited dowload size • Debugger maximum unlimited dowload size • Freescale USB TAP support • P&E USB/Cyclone Max support • ColdFire Device Initialization beans • ColdFire Processor Expert basic beans • Instruction set simulator support	n/a	
Professional Suite						
Legacy Part Number	CWS-H08-PROED-CX	CWS-H12-PROED-CX	CWS-568-CX	CWS-MCF-PROED-CX	CWS-MCF-LLPLT-CX	
Product Name	CodeWarrior for Microcontrollers, Professional Edition	CodeWarrior for HC12, Professional Edition	CodeWarrior for 568xx, Full Product	CodeWarrior for ColdFire, Professional Edition	CodeWarrior for ColdFire, Linux Platform Edition	
Product Features	• Unlimited C/C++ compiler/ debugger code size • Processor Expert with basic, software, advanced beans and bean wizard • Unlimited data visualization/IO stimulation • HIWAVE flash programmer • Session record and play • Decoder • Profiler/performance analysis • Code coverage • OSEK awareness • PC-Lint plugin	• Unlimited assembler for HCS12, HCS12X and XGATE modules • Unlimited C compiler/linker for HCS12, HCS12X and XGATE modules • Unlimited C compiler/linker for HCS12, HCS12X and XGATE modules • Code coverage • Profiler/performance analysis • Processor Expert with basic, software, advanced beans and bean wizard • Decoder • Session record and play • Libmaker • OSEK awareness • C++/Compact C++/EC++ • C source encryption tools	• Unlimited assembler • Unlimited C code • Processor Expert with basic and advanced beans • Data visualization	• Assembly and C/C++ language support • Flash programmer unlimited dowload size • Debugger maximum unlimited dowload size • Freescale USB TAP support • Freescale Ethernet TAP support • P&E USB/Cyclone Max support • Abatron support • ColdFire Device Initialization beans • ColdFire Processor Expert basic beans • Bean wizard • Instruction set simulator support • RTOS support	• GNU C/C++ compiler • No code size limit • Flash programmer unlimited dowload size • Debug multiple threads, processes, applications, shared libraries • Run control • Freescale USB TAP support • Freescale Ethernet TAP support • P&E USB support • Abatron BDI-2000/BDI-1000 support • Kernel-aware support	

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Quick Reference Guide for CodeWarrior™ Suites

Freescale CodeWarrior Tools		MPC5xx	MPC55xx		mobileGT®			
Free Tools	Legacy Part Number	CWX-MPC-5-XX-EX (Evaluation)	CWS-MPC-5500-SE	CWX-MPC-5500P-EX (Evaluation)	CWX-MGT-EX (Evaluation)	CWX-MGT-LLPLT-EX (Evaluation)	CWX-MGT-LLAPP-EX (Evaluation)	CWX-MGT-LINWH-EX (Evaluation)
	Product Name	CodeWarrior for MPC5XX	CodeWarrior for MPC55xx	CodeWarrior for MPC5500	CodeWarrior for mobileGT	CodeWarrior Development Studio for mobileGT Processors, Linux Platform Edition	CodeWarrior Development Studio for mobileGT Processors, Linux Application Edition	CodeWarrior Development Studio for mobileGT, Processor Edition
	Product Features	• Full-featured, 30-day evaluation copy (also available via download from **freescale.com**)	• P&E Power Architecture Nexus Starter Edition Debugger • Device support for MPC551x, MPC5533, MPC5534, MPC5553, MPC5554, MPC5561, MPC5565, MPC5566, and MPC5567 • New MPC55xx project wizard • IDE 5.9 >Vista support • Code and data size restriced to 128K	• Full-featured, 30-day evaluation copy (also available via download from **freescale.com**)	• Full-featured, 30-day evaluation copies (also available via download from **freescale.com**)			
Basic Suite	Legacy Part Number	n/a	n/a		CWS-MGT-LLAPP-CX			
	Product Name	n/a	n/a		CodeWarrior for mobileGT, Linux Application Edition			

	Product Features	n/a	n/a		• Compiler and linker:
					  ○ Supports GNU compiler collection
					  ○ Ability to integrate alternative GNU compilers
					• Application debug: using AppTRK
					  ○ Serial connectivity
					  ○ Networking connectivity
					• Full multi-threading/multi-tasking application debugging
					  ○ Individually control threads
					  ○ Follow fork/child debugging
					  ○ Full multi-process debug from one IDE
					  ○ Step one thread while all others are stopped
					  ○ Process and thread list			

Standard Suite	Legacy Part Number	CWS-MPC-5XXDB-CX	n/a		n/a			
	Product Name	CodeWarrior for MPC5XX, Debug Only	n/a		n/a			

	Product Features	The CodeWarrior debugger packs a wide array of high-powered features designed to help the developer find and repair software defects quickly, while providing maximum control to debug complex hardware and software issues, including:
		• User-configurable workspaces: Focus on complex debugging tasks, each workspace contains just the set of views needed for the task at hand
		• Hardware and unlimited software breakpoints
		• Eventpoints: Perform a specified task when the program executes a specific line of source code or when an associated conditional expression evaluates to true. Set an event point to perform a task (i.e., run a script, play a sound or collect trace data) for superior control over your code execution. Eventpoints can be:
		  ○ Log Point–Logs a string or expression to a file and records messages to the Log window
		  ○ Pause Point–Pauses execution to refresh debugger data–great for watching avariable change over time
		  ○ Script Point–Runs a script or application
		  ○ Skip Point–Skips execution of a line of source code
			n/a		n/a			

Professional Suite	Legacy Part Number	CWS-MPC-5-XX-CX	CWS-MPC-5500P-CX		CWS-MGT-CX/CWS-MGT-LLPLT-CX			
	Product Name	CodeWarrior for MPC5XX	CodeWarrior for MPC55XX, Professional Edition		CodeWarrior for mobileGT/CW for mobileGT, Linux Platform Edition			
	Product Features	• Highly efficient C/C++ compiler with cutting-edge optimization technology for fast, compact code • Complete control of code and data memory allocation • Options to pack or byte-swap structures to match existing data types • Support for position independent code (PIC) and position independent data (PID) • Built-in software profiler for hot-spot analysis • Industry-leading debugger with integrated logic analyzer interface • Integrated hardware diagnostics for board-level testing • Faster, more intuitive flash programming supporting the latest devices • File I/O for bare board applications (no OS) • RTOS kernel aware debugger • Out-of-the-box code templates (stationery) for popular AMD™/AXIOM boards	• P&E Power Architecture Nexus Starter Edition Debugger • Device support for MPC551x, MPC5533, MPC5534, MPC5553, MPC5554, MPC5561, MPC5565, MPC5566 and MPC5567 • MPC55xx project wizard • IDE 5.9 >Vista support • Unrestricted code and data size • Unrestricted debugger		• Version 9.0 supports the MPC5121e family only • Version 8.7 supports the MPC5200 and MPC823e families • When downloading, choose the version of CodeWarrior for mobileGT for your mobileGT processor family • When you purchase CodeWarrior for mobileGT Processors, you will receive CD's for both V8.7 (for MPC5200 and MPC823e) and V9.0 (for MPC5121e) **mobileGT Bare Board** • Tight integration of highly efficient C/C++ compiler, linker and assembler • Feature-rich source code debugger • Hardware diagnostics tools • Sophisticated source code editor/browser and search engine • Multi-threaded development • RTOS kernel and application development • Designed for use with Freescale's OSEKturbo RTOS • Compatible with CodeWarrior USB TAP and Ethernet TAP, plus additional third-party run control solutions **mobileGT Linux Platform Edition** • Includes all features of Bare Board tools • Linux specific debug capabilities • GCC compatibility			

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Freescale CodeWarrior Tools		Power Architecture (Netcomm) Bare Board	Power Architecture (Netcom) Linux Tools			StarCore®
Free Tools	Legacy Part Number	CWX-PPC-CMWFL-EX (Evaluation)	CWX-PPC-LLAPP-EX (Evaluation)	CWX-PPC-LINWH-EX (Evaluation)	CWX-PPC-LLPLT-EX (Evaluation)	CWX-STC-WIN-EX (Evaluation)
	Product Name	CodeWarrior for PowerPC ISA, Comm Processors Edition	CodeWarrior Development Studio for Power Architecture Processors V.8.8, Linux Application Edition, Linux Hosted	CodeWarrior Development Studio for Power Architecture Processors V.8.8, Linux Application Edition, Windows Hosted	CodeWarrior Development Studio for Power Architecture Processors V.8.8, Linux Platform Edition	CodeWarrior for StarCore, Windows Hosted
	Product Features	• Full-featured, 30-day evaluation copies (also available via download from **freescale.com**)				
Basic Suite	Legacy Part Number	CWS-PPC-FLASH-CX	CWS-PPC-LLAPP-CX/CWS-PPC-LINWH-CX			n/a
	Product Name	CodeWarrior for Power Architecture, Flash Loader Only	CodeWarrior for Power Architecture, Linux Applications Edition, Linux Hosted, CW for Power Architectures, Linux Applications Edition, Windows Hosted			n/a
	Product Features	The CodeWarrior Development Studio, Flash Programmer version provides: • Ability to program flash memory on supported devices when used with a CodeWarrior Ethernet or USB TAP. • Hardware diagnostics tool (includes memory read/write, memory tests, address test and bus noise test)	The CodeWarrior Development Studio, Linux Application Edition offers the following subset of features from Platform and, Professional Editions: • Compiler and linker: ○ Supports GNU compiler collection ○ Ability to integrate alternative GNU compilers • Application debug ○ Serial connectivity ○ Networking connectivity • Full multi-threading/multi-tasking application debugging ○ Individually control threads ○ Follow fork/child debugging ○ Full multi-process debug from one IDE ○ Step one thread while all others are stopped ○ Process and thread list			n/a
Standard Suite	Legacy Part Number	CWS-PPC-CMWDB-CX	CWS-PPC-LLPDB-CX			n/a
	Product Name	CodeWarrior for Power Architectures, Debug Only	CW for Power Architectures, Linux Platform Edition, Debug Only			n/a
	Product Features	**Control** • Concurrently debugging multiple applications, process and threads • Support for Uboot (and other boot loaders) debugging • Source files can be modified while debugging (original is cached) • Browser support in the debugger • Integrated hardware diagnostics for board level testing • Integrated source-code navigation provides quick and easy access to functions and files **Flexibility** • Source files can be modified while debugging **Visibility** Graphical Views of: • "Always on" stack crawl and local variables • Breakpoints—hardware and software	**Control** • Support for Uboot (and other boot loaders) debugging • Create, load and debug Linux kernel modules • Concurrently debugging multiple applications, process and threads • Source files can be modified while debugging (original is cached) • Browser support in the debugger • Integrated hardware diagnostics for board level testing • Integrated source-code navigation provides quick and easy access to functions and files **Flexibility** • Both 2.6.x and 2.4.x Linux kernels are supported • Show the state of individual kernel threads • Source files can be modified while debugging • Examples available showing debugging applications and kernel modules **Visibility** Graphical Views of: • "Always on" stack crawl and local variables • Breakpoints—hardware and software • Advanced Process Management and Display — view Linux target processes including those at the kernel level, and individual process parameters such as status, command line executable, environment variables and memory maps.			n/a
Professional Suite	Legacy Part Number	CWS-PPC-CMWFL-CX	CWS-PPC-LLPLT-CX			CWS-STC-WIN-CX
	Product Name	CodeWarrior for Power Architecture, Professional Edition	CodeWarrior for Power Architecture, Linux Platform Edition			CW for StarCore for MSC81xx and MSC71xx DSPs
	Product Features	**Control** • Concurrently debugging multiple applications, process and threads • Support for Uboot (and other boot loaders) debugging • Highly efficient C/C++ compiler with cutting-edge optimization technology for fast, compact code • Browser support in the debugger • Integrated hardware diagnostics for board level testing • Integrated source-code navigation provides quick and easy access to functions and files **Flexibility** • Source files can be modified while debugging **Visibility** Graphical Views of: • "Always on" stack crawl and local variables • Breakpoints—hardware and software	**Control** • Concurrently debugging multiple applications, process and threads • Support for Uboot (and other boot loaders) debugging • Create, load and debug Linux kernel modules • Show the state of individual kernel threads • Both 2.6.x and 2.4.x Linux kernels are supported • Highly efficient C/C++ compiler with cutting-edge optimization technology for fast, compact code • Browser support in the debugger • Integrated hardware diagnostics for board level testing • Integrated source-code navigation provides quick and easy access to functions and files **Flexibility** • Source files can be modified while debugging **Visibility** Graphical Views of: • "Always on" stack crawl and local variables • Breakpoints—hardware and software			• C/C++ optimizing compiler • Assembler, linker, ELF utilities • Multicore and multi-device debugger • Works with USB TAP and Ethernet TAP run control probes • Profiler/performance analysis • Functional and cycle accurate simulators • SmartDSP OS royalty-free real-time operating system

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Quick Reference Guide for CodeWarrior™ Suites

CodeWarrior Suites	
Basic Suite ($995 Perpetual License/$395 Annual Subscription)*	**Part Numbers (now included in suite)**
• CodeWarrior Development Studio for Power Architecture, Flash Loader Only	CWS-PPC-FLASH-CX
• CodeWarrior for Power Architecture, Linux Application Edition (Linux Hosted)	CWS-PPC-LLAPP-CX/LX
• CodeWarrior for Power Architecture, Linux Application Edition (Windows® Hosted)	CWS-PPC-LINWH-CX/LX
• CodeWarrior for ColdFire ISA, Linux Application Edition (Linux Hosted)	CWS-MCF-LLAPP-CX/LX
• CodeWarrior for ColdFire ISA, Linux Application Edition (Windows Hosted)	CWS-MCF-WLAPP-CX/LX
• CodeWarrior for ColdFire, Compiler Upgrade	CWS-MCF-CUPG-CX/LX
• CodeWarrior for DSP 56800/E, 64K Compiler Upgrade	CWS-568-C64K-CX/LX
• CodeWarrior for Microcontrollers, Compiler Upgrade	CWS-H08-CUPG-CX/LX
• CodeWarrior for HCS12(X), 64K Compiler Upgrade	CWS-H12-C64K-CX/LX
• CodeWarrior for mobileGT, Linux Application Edition	CWS-MGT-LLAPP-CX/LX
Standard Suite ($2495 Perpetual License/$995 Annual Subscription)*	
• CodeWarrior for Power Architecture, Debug Only Edition	CWS-PPC-CMWDB-CX/LX
• CodeWarrior for Power Architecture, Linux Platform Edition, Debug Only	CWS-PPC-LLPDB-CX/LX
• CodeWarrior for 68K, Compiler Only Edition	CWS-68K-CC
• CodeWarrior for ColdFire, Standard Edition	CWS-MCF-STDED-CX/LX
• CodeWarrior for DSP 56800/E, Full Product	CWS-568-CX/LX
• CodeWarrior for Microcontrollers, Standard Edition	CWS-H08-STDED-CX/LX
• CodeWarrior for HCS12(X), Standard Edition	CWS-H12-STDED-CX/LX
• CodeWarrior for MPC5XX, Debug Only Edition	CWS-MPC-5XXDB-CX/LX
Professional Suite ($4995 Perpetual License/$1995 Annual Subscription)*	
• CodeWarrior for Power Architecture, Professional Edition	CWS-PPC-CMWFL-CX/LX
• CodeWarrior for Power Architecture, Linux Platform Edition	CWS-PPC-LLPLT-CX/LX
• CodeWarrior for StarCore	CWS-STC-WIN-CX/LX
• CodeWarrior for 68K, Full Product	CWS-68K/FLT
• CodeWarrior for DSP 56800/E, Full Product	CWS-568-CX/LX
• CodeWarrior for ColdFire, Professional Edition	CWS-MCF-PROED-CX/LX
• CodeWarrior for ColdFire ISA, Linux Platform Edition	CWS-MCF-LLPLT-CX/LX
• CodeWarrior for Microcontrollers, Professional Edition	CWS-H08-PROED-CX/LX
• CodeWarrior for HCS12(X), Professional Edition	CWS-H12-PROED-CX/LX
• CodeWarrior for mobileGT	CWS-MGT-CX/LX
• CodeWarrior for mobileGT, Linux Platform Edition	CWS-MGT-LLPLT-CX/LX
• CodeWarrior for MPC5XX	CWS-MPC-5XX-CX/LX
• CodeWarrior for MPC5500, Professional Edition	CWS-MPC-5500P-CX/LX

New Part Numbers and Ordering Model			
License Type: Perpetual	CWP-BASIC-NL/FL ($995)	CWP-STANDARD-NL/FL ($2495)	CWP-PRO-NL/FL ($4995)
License Type: Annual Subscription	CWA-BASIC-NL/FL ($395)	CWA-STANDARD-NL/FL ($995)	CWA-PRO-NL/FL ($1995)
Suite Upgrade Part Numbers	CWP/A-BAS2STD-NL/FL		
		CWP/A-STD2PRO-NL/FL	
	CWP/A-BAS2PRO-NL/FL		
Tech Support* Renewal for Perpetual Licenses	CWT-BASIC ($195)	CWT-STANDARD ($495)	CWT-PRO ($995)
Annual Subscriptions* Renewal	CWA-BASIC-R ($395)	CWA-STANDARD-R ($995)	CWA-PRO-R ($1995)

*After 12 months, customer needs to renew Tech Support or Annual Subscription.

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