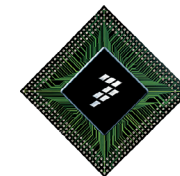


CodeWarrior

Development Suite

for ColdFire Architectures V7.2

Components Overview



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Rev B



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF	MCF54455_360_ TEPBGA	MCF54454_360_ TEPBGA	MCF54453_360_ TEPBGA	MCF54452_360_ TEPBGA
ADC	A/D converter	STD*	-	-	-	-
AsynchroMaster	Asynchronous serial communication - master	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave
BitIO	General 1-bit Input/Output	STD	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	STD*	STD	STD	STD	STD
Byte3IO	General Three-Bytes Input/Output	STD*	STD	STD	STD	STD
Byte4IO	General Four-Bytes Input/Output	STD*	STD	STD	STD	STD
ByteIO	General Byte Input/Output (8 bits)	STD*	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD*	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD*	STD	STD	STD	STD
EventCntr32	Event counter 32-bit	STD*	STD	STD	STD	STD
EventCntr8	Event counter 8-bit	STD*	STD	STD	STD	STD
ExternalFile	External Binary File Converter	ExternalFile	ExternalFile	ExternalFile	ExternalFile	ExternalFile
ExtInt	External interrupt	STD	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD	STD
FreeCntr16	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr8	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
Init_ADC_MCF	Analog-to-Digital Converter Init Bean	STD*	-	-	-	-
Init_ASP_MCF	Touchscreen Controller/Analog-to-Digital Converter Init Bean	STD*	-	-	-	-
Init_ATA_MCF	Advanced Technology Attachment (ATA)	STD*	STD	STD	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF	MCF54455_360_ TEPBGA	MCF54454_360_ TEPBGA	MCF54453_360_ TEPBGA	MCF54452_360_ TEPBGA
Init_AudioFunctions_M CF	Audio Interface Module Init Bean	STD*	-	-	-	-
Init_DMA_MCF	Direct memory access Init Bean	STD*	-	-	-	-
Init_DSPI_MCF	DMA Serial Peripheral Interface Init Bean	STD*	STD	STD	STD	STD
Init_DTIM_MCF	DMA Timer Init Bean	STD*	STD	STD	STD	STD
Init_eDMA_MCF	Enhanced direct memory access Init Bean	STD*	STD	STD	STD	STD
Init_EPORT_MCF	Edge port module (EPORT)	STD*	STD	STD	STD	STD
Init_eSDHC_MCF	Enhanced Secure Digital Host Controller Init Bean	STD*	-	-	-	-
Init_FEC_MCF	Fast Ethernet Controller Init Bean	STD*	STD	STD	STD	STD
Init_FlashMedia_MCF	Flash Media Interface	STD*	-	-	-	-
Init_FlexCAN_MCF	FlexCAN init bean	STD*	-	-	-	-
Init_GPIO_MCF	General Purpose Input/Output (GPIO)	STD	STD	STD	STD	STD
Init_GPT_MCF	General Purpose Timer Module Init Bean	STD*	-	-	-	-
Init_I2C_MCF	Inter-IC Bus Init Bean	STD	STD	STD	STD	STD
Init_IIM_MCF	IC Identification (IIM) Init Bean	STD*	-	-	-	-
Init_LCDC_MCF	Liquid Crystal Display Controller	STD*	-	-	-	-
Init_MDHA_MCF	Message Digest Hardware Accelerator	STD*	-	-	-	-
Init_PCI_MCF	PCI Bus Controller	STD*	STD	STD	STD	STD
Init_PIT_MCF	Programmable Interrupt Timer Init Bean	STD*	STD	STD	STD	STD
Init_PWM_MCF	Pulse Width Modulation Init Bean	STD*	-	-	-	-
Init_QADC_MCF	Queued Analog-to-Digital Converter Init Bean	STD*	-	-	-	-
Init_QSPI_MCF	Queued Serial Peripheral Interface Init Bean	STD*	-	-	-	-
Init_RNG_MCF	Random Number Generator	STD*	STD	-	STD	-
Init_RTC_MCF	Real Time Clock Init Bean	STD*	STD	STD	STD	STD
Init_SKHA_MCF	Symmetric Key Hardware Accelerator	STD*	-	-	-	-
Init_SSI_MCF	Synchronous Serial Interface Init Bean	STD*	STD	STD	STD	STD
Init_SubscriberIdentific ation_MCF	Subscriber Identification Module	STD*	-	-	-	-
Init_Timer_MCF	Timer Module Init Bean	STD*	-	-	-	-
Init_UART_MCF	UART Init Bean	STD	STD	STD	STD	STD
Init_USB_HOST_EHCI_ MCF	USB HOST Init Bean	STD*	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF	MCF54455_360_ TEPBGA	MCF54454_360_ TEPBGA	MCF54453_360_ TEPBGA	MCF54452_360_ TEPBGA
Init_USB_OTG_EHCI_ MCF	USB OTG Init Bean	STD*	STD	STD	STD	STD
Init_USB_OTG_MCF	USB OTG Init Bean	STD*	-	-	-	-
Init_VoiceCodec_MCF	Voice Codec Init Bean	STD*	-	-	-	-
Init_WTM_MCF	Watchdog Timer Module Init Bean	STD*	-	-	-	-
InputPin	General 1-bit Input	STD	STD	STD	STD	STD
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD	STD
LongIO	General Long (32-bit) Input/Output	STD*	STD	STD	STD	STD
PPG	Programmable pulse generation	STD*	-	-	-	-
PWM	Pulse width modulation	STD*	-	-	-	-
RTC	Real Time Clock	RTC*	RTC	RTC	RTC	RTC
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD	STD
StringList	String List Converter	StringList	StringList	StringList	StringList	StringList
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD*	STD	STD	STD	STD
Term	ANSI Terminal	Term	Term	Term	Term	Term
TimeDate	Time and date	TimeDate	TimeDate	TimeDate	TimeDate	TimeDate
TimerInt	Periodic interrupt	STD	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD	STD
WatchDog	WatchDog bean	STD*	-	-	-	-
WordIO	General Word (16-bit) Input/Output	STD*	STD	STD	STD	STD



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF54451_256_ MAPBGA	MCF54450_256_ MAPBGA	MCF5329_256_ MAPBGA	MCF5328_256_ MAPBGA	MCF5327_196_ MAPBGA
ADC	A/D converter	-	-	-	-	-
AsynchroMaster	Asynchronous serial communication - master	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave
BitIO	General 1-bit Input/Output	STD	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	STD	STD	STD	STD	STD
Byte3IO	General Three-Bytes Input/Output	STD	STD	STD	STD	STD
Byte4IO	General Four-Bytes Input/Output	STD	STD	STD	STD	STD
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD	STD	STD	STD	STD
EventCntr32	Event counter 32-bit	STD	STD	STD	STD	STD
EventCntr8	Event counter 8-bit	STD	STD	STD	STD	STD
ExternalFile	External Binary File Converter	ExternalFile	ExternalFile	ExternalFile	ExternalFile	ExternalFile
ExtInt	External interrupt	STD	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD	STD
FreeCntr16	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr8	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
Init_ADC_MCF	Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_ASP_MCF	Touchscreen Controller/Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_ATA_MCF	Advanced Technology Attachment (ATA)	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF54451_256_ MAPBGA	MCF54450_256_ MAPBGA	MCF5329_256_ MAPBGA	MCF5328_256_ MAPBGA	MCF5327_196_ MAPBGA
Init_AudioFunctions_M CF	Audio Interface Module Init Bean	-	-	-	-	-
Init_DMA_MCF	Direct memory access Init Bean	-	-	-	-	-
Init_DSPI_MCF	DMA Serial Peripheral Interface Init Bean	STD	STD	-	-	-
Init_DTIM_MCF	DMA Timer Init Bean	STD	STD	STD	STD	STD
Init_eDMA_MCF	Enhanced direct memory access Init Bean	STD	STD	STD	STD	STD
Init_EPORT_MCF	Edge port module (EPORT)	STD	STD	STD	STD	STD
Init_eSDHC_MCF	Enhanced Secure Digital Host Controller Init Bean	-	-	-	-	-
Init_FEC_MCF	Fast Ethernet Controller Init Bean	STD	STD	STD	STD	-
Init_FlashMedia_MCF	Flash Media Interface	-	-	-	-	-
Init_FlexCAN_MCF	FlexCAN init bean	-	-	STD	-	-
Init_GPIO_MCF	General Purpose Input/Output (GPIO)	STD	STD	STD	STD	STD
Init_GPT_MCF	General Purpose Timer Module Init Bean	-	-	-	-	-
Init_I2C_MCF	Inter-IC Bus Init Bean	STD	STD	STD	STD	STD
Init_IIM_MCF	IC Identification (IIM) Init Bean	-	-	-	-	-
Init_LCDC_MCF	Liquid Crystal Display Controller	-	-	STD	STD	STD
Init_MDHA_MCF	Message Digest Hardware Accelerator	-	-	STD	-	-
Init_PCI_MCF	PCI Bus Controller	-	-	-	-	-
Init_PIT_MCF	Programmable Interrupt Timer Init Bean	STD	STD	STD	STD	STD
Init_PWM_MCF	Pulse Width Modulation Init Bean	-	-	STD	STD	STD
Init_QADC_MCF	Queued Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_QSPI_MCF	Queued Serial Peripheral Interface Init Bean	-	-	STD	STD	STD
Init_RNG_MCF	Random Number Generator	STD	-	STD	-	-
Init_RTC_MCF	Real Time Clock Init Bean	STD	STD	STD	STD	STD
Init_SKHA_MCF	Symmetric Key Hardware Accelerator	-	-	STD	-	-
Init_SSI_MCF	Synchronous Serial Interface Init Bean	STD	STD	STD	STD	STD
Init_SubscriberIdentific ation_MCF	Subscriber Identification Module	-	-	-	-	-
Init_Timer_MCF	Timer Module Init Bean	-	-	-	-	-
Init_UART_MCF	UART Init Bean	STD	STD	STD	STD	STD
Init_USB_HOST_EHCI_ MCF	USB HOST Init Bean	-	-	STD	STD	STD



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF54451_256_ MAPBGA	MCF54450_256_ MAPBGA	MCF5329_256_ MAPBGA	MCF5328_256_ MAPBGA	MCF5327_196_ MAPBGA
Init_USB_OTG_EHCI_MCF	USB OTG Init Bean	STD	STD	STD	STD	STD
Init_USB_OTG_MCF	USB OTG Init Bean	-	-	-	-	-
Init_VoiceCodec_MCF	Voice Codec Init Bean	-	-	-	-	-
Init_WTM_MCF	Watchdog Timer Module Init Bean	-	-	STD	STD	STD
InputPin	General 1-bit Input	STD	STD	STD	STD	STD
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD	STD
LongIO	General Long (32-bit) Input/Output	STD	STD	-	-	-
PPG	Programmable pulse generation	-	-	STD	STD	STD
PWM	Pulse width modulation	-	-	STD	STD	STD
RTC	Real Time Clock	RTC	RTC	RTC	RTC	RTC
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD	STD
StringList	String List Converter	StringList	StringList	StringList	StringList	StringList
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	-	-	-
Term	ANSI Terminal	Term	Term	Term	Term	Term
TimeDate	Time and date	TimeDate	TimeDate	TimeDate	TimeDate	TimeDate
TimerInt	Periodic interrupt	STD	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD	STD
WatchDog	WatchDog bean	-	-	STD	STD	STD
WordIO	General Word (16-bit) Input/Output	STD	STD	STD	STD	STD



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF53017_256_ MAPBGA	MCF53016_256_ MAPBGA	MCF53015_256_ MAPBGA	MCF53014_256_ MAPBGA	MCF53013_208_ LQFP
ADC	A/D converter	-	-	-	-	-
AsynchroMaster	Asynchronous serial communication - master	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave
BitIO	General 1-bit Input/Output	STD	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	-	-	-	-	-
Byte3IO	General Three-Bytes Input/Output	-	-	-	-	-
Byte4IO	General Four-Bytes Input/Output	-	-	-	-	-
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD	STD	STD	STD	STD
EventCntr32	Event counter 32-bit	STD	STD	STD	STD	STD
EventCntr8	Event counter 8-bit	STD	STD	STD	STD	STD
ExternalFile	External Binary File Converter	ExternalFile	ExternalFile	ExternalFile	ExternalFile	ExternalFile
ExtInt	External interrupt	STD	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD	STD
FreeCntr16	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr8	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
Init_ADC_MCF	Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_ASP_MCF	Touchscreen Controller/Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_ATA_MCF	Advanced Technology Attachment (ATA)	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF53017_256_ MAPBGA	MCF53016_256_ MAPBGA	MCF53015_256_ MAPBGA	MCF53014_256_ MAPBGA	MCF53013_208_ LQFP
Init_AudioFunctions_M CF	Audio Interface Module Init Bean	-	-	-	-	-
Init_DMA_MCF	Direct memory access Init Bean	-	-	-	-	-
Init_DSPI_MCF	DMA Serial Peripheral Interface Init Bean	STD	STD	STD	STD	STD
Init_DTIM_MCF	DMA Timer Init Bean	STD	STD	STD	STD	STD
Init_eDMA_MCF	Enhanced direct memory access Init Bean	STD	STD	STD	STD	STD
Init_EPORT_MCF	Edge port module (EPORT)	STD	STD	STD	STD	STD
Init_eSDHC_MCF	Enhanced Secure Digital Host Controller Init Bean	STD	STD	STD	STD	STD
Init_FEC_MCF	Fast Ethernet Controller Init Bean	STD	STD	STD	STD	STD
Init_FlashMedia_MCF	Flash Media Interface	-	-	-	-	-
Init_FlexCAN_MCF	FlexCAN init bean	-	-	-	-	-
Init_GPIO_MCF	General Purpose Input/Output (GPIO)	STD	STD	STD	STD	STD
Init_GPT_MCF	General Purpose Timer Module Init Bean	-	-	-	-	-
Init_I2C_MCF	Inter-IC Bus Init Bean	STD	STD	STD	STD	STD
Init_IIM_MCF	IC Identification (IIM) Init Bean	STD	STD	STD	STD	STD
Init_LCDC_MCF	Liquid Crystal Display Controller	-	-	-	-	-
Init_MDHA_MCF	Message Digest Hardware Accelerator	-	-	-	-	-
Init_PCI_MCF	PCI Bus Controller	-	-	-	-	-
Init_PIT_MCF	Programmable Interrupt Timer Init Bean	STD	STD	STD	STD	STD
Init_PWM_MCF	Pulse Width Modulation Init Bean	-	-	-	-	-
Init_QADC_MCF	Queued Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_QSPI_MCF	Queued Serial Peripheral Interface Init Bean	-	-	-	-	-
Init_RNG_MCF	Random Number Generator	STD	-	STD	-	STD
Init_RTC_MCF	Real Time Clock Init Bean	STD	STD	STD	STD	-
Init_SKHA_MCF	Symmetric Key Hardware Accelerator	-	-	-	-	-
Init_SSI_MCF	Synchronous Serial Interface Init Bean	STD	STD	STD	STD	STD
Init_SubscriberIdentific ation_MCF	Subscriber Identification Module	STD	STD	STD	STD	STD
Init_Timer_MCF	Timer Module Init Bean	-	-	-	-	-
Init_UART_MCF	UART Init Bean	STD	STD	STD	STD	STD
Init_USB_HOST_EHCI_ MCF	USB HOST Init Bean	STD	STD	STD	STD	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF53017_256_ MAPBGA	MCF53016_256_ MAPBGA	MCF53015_256_ MAPBGA	MCF53014_256_ MAPBGA	MCF53013_208_ LQFP
Init_USB_OTG_EHCI_MCF	USB OTG Init Bean	STD	STD	STD	STD	STD
Init_USB_OTG_MCF	USB OTG Init Bean	-	-	-	-	-
Init_VoiceCodec_MCF	Voice Codec Init Bean	STD	STD	STD	STD	STD
Init_WTM_MCF	Watchdog Timer Module Init Bean	-	-	-	-	-
InputPin	General 1-bit Input	STD	STD	STD	STD	STD
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD	STD
LongIO	General Long (32-bit) Input/Output	-	-	-	-	-
PPG	Programmable pulse generation	-	-	-	-	-
PWM	Pulse width modulation	-	-	-	-	-
RTC	Real Time Clock	RTC	RTC	RTC	RTC	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD	STD
StringList	String List Converter	StringList	StringList	StringList	StringList	StringList
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD	STD
Term	ANSI Terminal	Term	Term	Term	Term	Term
TimeDate	Time and date	TimeDate	TimeDate	TimeDate	TimeDate	TimeDate
TimerInt	Periodic interrupt	STD	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD	STD
WatchDog	WatchDog bean	-	-	-	-	-
WordIO	General Word (16-bit) Input/Output	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF53012_208_ LQFP	MCF53011_208_ LQFP	MCF53010_208_ LQFP	MCF5253_225_ MAPBGA	MCF52277 _196_MAPBGA
ADC	A/D converter	-	-	-	STD	-
AsynchroMaster	Asynchronous serial communication - master	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave
BitIO	General 1-bit Input/Output	STD	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	-	-	-	STD	STD
Byte3IO	General Three-Bytes Input/Output	-	-	-	STD	STD
Byte4IO	General Four-Bytes Input/Output	-	-	-	STD	-
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	-	STD
COLimage	Color image	STD	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD	STD	STD	-	STD
EventCntr32	Event counter 32-bit	STD	STD	STD	-	STD
EventCntr8	Event counter 8-bit	STD	STD	STD	-	STD
ExternalFile	External Binary File Converter	ExternalFile	ExternalFile	ExternalFile	ExternalFile	ExternalFile
ExtInt	External interrupt	STD	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD	STD
FreeCntr16	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr8	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
Init_ADC_MCF	Analog-to-Digital Converter Init Bean	-	-	-	STD	-
Init_ASP_MCF	Touchscreen Controller/Analog-to-Digital Converter Init Bean	-	-	-	-	STD
Init_ATA_MCF	Advanced Technology Attachment (ATA)	-	-	-	STD	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF53012_208_ LQFP	MCF53011_208_ LQFP	MCF53010_208_ LQFP	MCF5253_225_ MAPBGA	MCF52277 _196_MAPBGA
Init_AudioFunctions_M CF	Audio Interface Module Init Bean	-	-	-	STD	-
Init_DMA_MCF	Direct memory access Init Bean	-	-	-	STD	-
Init_DSPI_MCF	DMA Serial Peripheral Interface Init Bean	STD	STD	STD	-	STD
Init_DTIM_MCF	DMA Timer Init Bean	STD	STD	STD	-	STD
Init_eDMA_MCF	Enhanced direct memory access Init Bean	STD	STD	STD	-	STD
Init_EPORT_MCF	Edge port module (EPORT)	STD	STD	STD	-	STD
Init_eSDHC_MCF	Enhanced Secure Digital Host Controller Init Bean	STD	STD	STD	-	-
Init_FEC_MCF	Fast Ethernet Controller Init Bean	STD	STD	STD	-	-
Init_FlashMedia_MCF	Flash Media Interface	-	-	-	STD	-
Init_FlexCAN_MCF	FlexCAN init bean	-	-	-	STD	STD
Init_GPIO_MCF	General Purpose Input/Output (GPIO)	STD	STD	STD	STD	STD
Init_GPT_MCF	General Purpose Timer Module Init Bean	-	-	-	-	-
Init_I2C_MCF	Inter-IC Bus Init Bean	STD	STD	STD	STD	STD
Init_IIM_MCF	IC Identification (IIM) Init Bean	STD	STD	STD	-	-
Init_LCDC_MCF	Liquid Crystal Display Controller	-	-	-	-	STD
Init_MDHA_MCF	Message Digest Hardware Accelerator	-	-	-	-	-
Init_PCI_MCF	PCI Bus Controller	-	-	-	-	-
Init_PIT_MCF	Programmable Interrupt Timer Init Bean	STD	STD	STD	-	STD
Init_PWM_MCF	Pulse Width Modulation Init Bean	-	-	-	-	STD
Init_QADC_MCF	Queued Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_QSPI_MCF	Queued Serial Peripheral Interface Init Bean	-	-	-	STD	-
Init_RNG_MCF	Random Number Generator	-	STD	-	-	-
Init_RTC_MCF	Real Time Clock Init Bean	-	-	-	-	STD
Init_SKHA_MCF	Symmetric Key Hardware Accelerator	-	-	-	-	-
Init_SSI_MCF	Synchronous Serial Interface Init Bean	STD	STD	STD	-	STD
Init_SubscriberIdentific ation_MCF	Subscriber Identification Module	STD	STD	STD	-	-
Init_Timer_MCF	Timer Module Init Bean	-	-	-	STD	-
Init_UART_MCF	UART Init Bean	STD	STD	STD	STD	STD
Init_USB_HOST_EHCI_ MCF	USB HOST Init Bean	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF53012_208_ LQFP	MCF53011_208_ LQFP	MCF53010_208_ LQFP	MCF5253_225_ MAPBGA	MCF52277 _196_MAPBGA
Init_USB_OTG_EHCI_MCF	USB OTG Init Bean	STD	STD	STD	STD	STD
Init_USB_OTG_MCF	USB OTG Init Bean	-	-	-	-	-
Init_VoiceCodec_MCF	Voice Codec Init Bean	STD	STD	STD	-	-
Init_WTM_MCF	Watchdog Timer Module Init Bean	-	-	-	-	-
InputPin	General 1-bit Input	STD	STD	STD	STD	STD
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD	STD
LongIO	General Long (32-bit) Input/Output	-	-	-	-	-
PPG	Programmable pulse generation	-	-	-	-	STD
PWM	Pulse width modulation	-	-	-	-	STD
RTC	Real Time Clock	-	-	-	-	RTC
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD	STD
StringList	String List Converter	StringList	StringList	StringList	StringList	StringList
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	-	STD
Term	ANSI Terminal	Term	Term	Term	Term	Term
TimeDate	Time and date	TimeDate	TimeDate	TimeDate	TimeDate	TimeDate
TimerInt	Periodic interrupt	STD	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD	STD
WatchDog	WatchDog bean	-	-	-	-	-
WordIO	General Word (16-bit) Input/Output	-	-	-	STD	STD



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52274_176_ LQFP	MCF52259_144_ MAPBGA	MCF52259_144_ LQFP	MCF52258_144_ MAPBGA	MCF52258_144_ LQFP
ADC	A/D converter	-	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave
BitIO	General 1-bit Input/Output	STD	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	-	STD	STD	STD	STD
Byte3IO	General Three-Bytes Input/Output	-	STD	STD	STD	STD
Byte4IO	General Four-Bytes Input/Output	-	STD	STD	STD	STD
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD	STD	STD	STD	STD
EventCntr32	Event counter 32-bit	STD	STD	STD	STD	STD
EventCntr8	Event counter 8-bit	STD	STD	STD	STD	STD
ExternalFile	External Binary File Converter	ExternalFile	ExternalFile	ExternalFile	ExternalFile	ExternalFile
ExtInt	External interrupt	STD	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD	STD
FreeCntr16	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr8	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
Init_ADC_MCF	Analog-to-Digital Converter Init Bean	-	STD	STD	STD	STD
Init_ASP_MCF	Touchscreen Controller/Analog-to-Digital Converter Init Bean	STD	-	-	-	-
Init_ATA_MCF	Advanced Technology Attachment (ATA)	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52274_176_ LQFP	MCF52259_144_ MAPBGA	MCF52259_144_ LQFP	MCF52258_144_ MAPBGA	MCF52258_144_ LQFP
Init_AudioFunctions_MCF	Audio Interface Module Init Bean	-	-	-	-	-
Init_DMA_MCF	Direct memory access Init Bean	-	STD	STD	STD	STD
Init_DSPI_MCF	DMA Serial Peripheral Interface Init Bean	STD	-	-	-	-
Init_DTIM_MCF	DMA Timer Init Bean	STD	STD	STD	STD	STD
Init_eDMA_MCF	Enhanced direct memory access Init Bean	STD	-	-	-	-
Init_EPORT_MCF	Edge port module (EPORT)	STD	STD	STD	STD	STD
Init_eSDHC_MCF	Enhanced Secure Digital Host Controller Init Bean	-	-	-	-	-
Init_FEC_MCF	Fast Ethernet Controller Init Bean	-	STD	STD	STD	STD
Init_FlashMedia_MCF	Flash Media Interface	-	-	-	-	-
Init_FlexCAN_MCF	FlexCAN init bean	STD	STD	STD	STD	STD
Init_GPIO_MCF	General Purpose Input/Output (GPIO)	STD	STD	STD	STD	STD
Init_GPT_MCF	General Purpose Timer Module Init Bean	-	STD	STD	STD	STD
Init_I2C_MCF	Inter-IC Bus Init Bean	STD	STD	STD	STD	STD
Init_IIM_MCF	IC Identification (IIM) Init Bean	-	-	-	-	-
Init_LCDC_MCF	Liquid Crystal Display Controller	STD	-	-	-	-
Init_MDHA_MCF	Message Digest Hardware Accelerator	-	-	-	-	-
Init_PCI_MCF	PCI Bus Controller	-	-	-	-	-
Init_PIT_MCF	Programmable Interrupt Timer Init Bean	STD	STD	STD	STD	STD
Init_PWM_MCF	Pulse Width Modulation Init Bean	STD	STD	STD	STD	STD
Init_QADC_MCF	Queued Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_QSPI_MCF	Queued Serial Peripheral Interface Init Bean	-	STD	STD	STD	STD
Init_RNG_MCF	Random Number Generator	-	STD	STD	-	-
Init_RTC_MCF	Real Time Clock Init Bean	STD	STD	STD	STD	STD
Init_SKHA_MCF	Symmetric Key Hardware Accelerator	-	-	-	-	-
Init_SSI_MCF	Synchronous Serial Interface Init Bean	STD	-	-	-	-
Init_SubscriberIdentification_MCF	Subscriber Identification Module	-	-	-	-	-
Init_Timer_MCF	Timer Module Init Bean	-	-	-	-	-
Init_UART_MCF	UART Init Bean	STD	STD	STD	STD	STD
Init_USB_HOST_EHCI_MCF	USB HOST Init Bean	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52274_176_ LQFP	MCF52259_144_ MAPBGA	MCF52259_144_ LQFP	MCF52258_144_ MAPBGA	MCF52258_144_ LQFP
Init_USB_OTG_EHCI_MCF	USB OTG Init Bean	STD	-	-	-	-
Init_USB_OTG_MCF	USB OTG Init Bean	-	STD	STD	STD	STD
Init_VoiceCodec_MCF	Voice Codec Init Bean	-	-	-	-	-
Init_WTM_MCF	Watchdog Timer Module Init Bean	-	STD	STD	STD	STD
InputPin	General 1-bit Input	STD	STD	STD	STD	STD
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD	STD
LongIO	General Long (32-bit) Input/Output	-	-	-	-	-
PPG	Programmable pulse generation	-	STD	STD	STD	STD
PWM	Pulse width modulation	-	STD	STD	STD	STD
RTC	Real Time Clock	RTC	RTC	RTC	RTC	RTC
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD	STD
StringList	String List Converter	StringList	StringList	StringList	StringList	StringList
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	-	-	-	-
Term	ANSI Terminal	Term	Term	Term	Term	Term
TimeDate	Time and date	TimeDate	TimeDate	TimeDate	TimeDate	TimeDate
TimerInt	Periodic interrupt	STD	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD	STD
WatchDog	WatchDog bean	-	STD	STD	STD	STD
WordIO	General Word (16-bit) Input/Output	-	STD	STD	STD	STD



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52256_144_ MAPBGA	MCF52256_144_ LQFP	MCF52255_100_ LQFP	MCF52254_100_ LQFP	MCF52252_100_ LQFP
ADC	A/D converter	STD	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave
BitIO	General 1-bit Input/Output	STD	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	STD	STD	STD	STD	STD
Byte3IO	General Three-Bytes Input/Output	STD	STD	STD	STD	STD
Byte4IO	General Four-Bytes Input/Output	STD	STD	-	-	-
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD	STD	STD	STD	STD
EventCntr32	Event counter 32-bit	STD	STD	STD	STD	STD
EventCntr8	Event counter 8-bit	STD	STD	STD	STD	STD
ExternalFile	External Binary File Converter	ExternalFile	ExternalFile	ExternalFile	ExternalFile	ExternalFile
ExtInt	External interrupt	STD	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD	STD
FreeCntr16	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr8	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
Init_ADC_MCF	Analog-to-Digital Converter Init Bean	STD	STD	STD	STD	STD
Init_ASP_MCF	Touchscreen Controller/Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_ATA_MCF	Advanced Technology Attachment (ATA)	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52256_144_ MAPBGA	MCF52256_144_ LQFP	MCF52255_100_ LQFP	MCF52254_100_ LQFP	MCF52252_100_ LQFP
Init_AudioFunctions_MCF	Audio Interface Module Init Bean	-	-	-	-	-
Init_DMA_MCF	Direct memory access Init Bean	STD	STD	STD	STD	STD
Init_DSPI_MCF	DMA Serial Peripheral Interface Init Bean	-	-	-	-	-
Init_DTIM_MCF	DMA Timer Init Bean	STD	STD	STD	STD	STD
Init_eDMA_MCF	Enhanced direct memory access Init Bean	-	-	-	-	-
Init_EPORT_MCF	Edge port module (EPORT)	STD	STD	STD	STD	STD
Init_eSDHC_MCF	Enhanced Secure Digital Host Controller Init Bean	-	-	-	-	-
Init_FEC_MCF	Fast Ethernet Controller Init Bean	STD	STD	STD	STD	STD
Init_FlashMedia_MCF	Flash Media Interface	-	-	-	-	-
Init_FlexCAN_MCF	FlexCAN init bean	STD	STD	STD	STD	STD
Init_GPIO_MCF	General Purpose Input/Output (GPIO)	STD	STD	STD	STD	STD
Init_GPT_MCF	General Purpose Timer Module Init Bean	STD	STD	STD	STD	STD
Init_I2C_MCF	Inter-IC Bus Init Bean	STD	STD	STD	STD	STD
Init_IIM_MCF	IC Identification (IIM) Init Bean	-	-	-	-	-
Init_LCDC_MCF	Liquid Crystal Display Controller	-	-	-	-	-
Init_MDHA_MCF	Message Digest Hardware Accelerator	-	-	-	-	-
Init_PCI_MCF	PCI Bus Controller	-	-	-	-	-
Init_PIT_MCF	Programmable Interrupt Timer Init Bean	STD	STD	STD	STD	STD
Init_PWM_MCF	Pulse Width Modulation Init Bean	STD	STD	STD	STD	STD
Init_QADC_MCF	Queued Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_QSPI_MCF	Queued Serial Peripheral Interface Init Bean	STD	STD	STD	STD	STD
Init_RNG_MCF	Random Number Generator	-	-	STD	-	-
Init_RTC_MCF	Real Time Clock Init Bean	STD	STD	STD	STD	STD
Init_SKHA_MCF	Symmetric Key Hardware Accelerator	-	-	-	-	-
Init_SSI_MCF	Synchronous Serial Interface Init Bean	-	-	-	-	-
Init_SubscriberIdentification_MCF	Subscriber Identification Module	-	-	-	-	-
Init_Timer_MCF	Timer Module Init Bean	-	-	-	-	-
Init_UART_MCF	UART Init Bean	STD	STD	STD	STD	STD
Init_USB_HOST_EHCI_MCF	USB HOST Init Bean	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52256_144_ MAPBGA	MCF52256_144_ LQFP	MCF52255_100_ LQFP	MCF52254_100_ LQFP	MCF52252_100_ LQFP
Init_USB_OTG_EHCI_MCF	USB OTG Init Bean	-	-	-	-	-
Init_USB_OTG_MCF	USB OTG Init Bean	STD	STD	STD	STD	STD
Init_VoiceCodec_MCF	Voice Codec Init Bean	-	-	-	-	-
Init_WTM_MCF	Watchdog Timer Module Init Bean	STD	STD	STD	STD	STD
InputPin	General 1-bit Input	STD	STD	STD	STD	STD
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD	STD
LongIO	General Long (32-bit) Input/Output	-	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD	STD
RTC	Real Time Clock	RTC	RTC	RTC	RTC	RTC
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD	STD
StringList	String List Converter	StringList	StringList	StringList	StringList	StringList
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	-	-	-	-	-
Term	ANSI Terminal	Term	Term	Term	Term	Term
TimeDate	Time and date	TimeDate	TimeDate	TimeDate	TimeDate	TimeDate
TimerInt	Periodic interrupt	STD	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD	STD
WatchDog	WatchDog bean	STD	STD	STD	STD	STD
WordIO	General Word (16-bit) Input/Output	STD	STD	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52236_80_L QFP	MCF52235_121_ MAPBGA	MCF52235_112_ LQFP	MCF52234_121_ MAPBGA	MCF52234_112_ LQFP
ADC	A/D converter	STD	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave
BitIO	General 1-bit Input/Output	STD	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	-	STD	STD	STD	STD
Byte3IO	General Three-Bytes Input/Output	-	STD	STD	STD	STD
Byte4IO	General Four-Bytes Input/Output	-	-	-	-	-
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD	STD	STD	STD	STD
EventCntr32	Event counter 32-bit	STD	STD	STD	STD	STD
EventCntr8	Event counter 8-bit	STD	STD	STD	STD	STD
ExternalFile	External Binary File Converter	ExternalFile	ExternalFile	ExternalFile	ExternalFile	ExternalFile
ExtInt	External interrupt	STD	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD	STD
FreeCntr16	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr8	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
Init_ADC_MCF	Analog-to-Digital Converter Init Bean	STD	STD	STD	STD	STD
Init_ASP_MCF	Touchscreen Controller/Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_ATA_MCF	Advanced Technology Attachment (ATA)	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52236_80_L QFP	MCF52235_121_ MAPBGA	MCF52235_112_ LQFP	MCF52234_121_ MAPBGA	MCF52234_112_ LQFP
Init_AudioFunctions_M CF	Audio Interface Module Init Bean	-	-	-	-	-
Init_DMA_MCF	Direct memory access Init Bean	STD	STD	STD	STD	STD
Init_DSPI_MCF	DMA Serial Peripheral Interface Init Bean	-	-	-	-	-
Init_DTIM_MCF	DMA Timer Init Bean	STD	STD	STD	STD	STD
Init_eDMA_MCF	Enhanced direct memory access Init Bean	-	-	-	-	-
Init_EPORT_MCF	Edge port module (EPORT)	STD	STD	STD	STD	STD
Init_eSDHC_MCF	Enhanced Secure Digital Host Controller Init Bean	-	-	-	-	-
Init_FEC_MCF	Fast Ethernet Controller Init Bean	STD	STD	STD	STD	STD
Init_FlashMedia_MCF	Flash Media Interface	-	-	-	-	-
Init_FlexCAN_MCF	FlexCAN init bean	-	STD	STD	STD	STD
Init_GPIO_MCF	General Purpose Input/Output (GPIO)	STD	STD	STD	STD	STD
Init_GPT_MCF	General Purpose Timer Module Init Bean	STD	STD	STD	STD	STD
Init_I2C_MCF	Inter-IC Bus Init Bean	STD	STD	STD	STD	STD
Init_IIM_MCF	IC Identification (IIM) Init Bean	-	-	-	-	-
Init_LCDC_MCF	Liquid Crystal Display Controller	-	-	-	-	-
Init_MDHA_MCF	Message Digest Hardware Accelerator	-	-	-	-	-
Init_PCI_MCF	PCI Bus Controller	-	-	-	-	-
Init_PIT_MCF	Programmable Interrupt Timer Init Bean	STD	STD	STD	STD	STD
Init_PWM_MCF	Pulse Width Modulation Init Bean	STD	STD	STD	STD	STD
Init_QADC_MCF	Queued Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_QSPI_MCF	Queued Serial Peripheral Interface Init Bean	STD	STD	STD	STD	STD
Init_RNG_MCF	Random Number Generator	-	STD	STD	-	-
Init_RTC_MCF	Real Time Clock Init Bean	STD	STD	STD	STD	STD
Init_SKHA_MCF	Symmetric Key Hardware Accelerator	-	-	-	-	-
Init_SSI_MCF	Synchronous Serial Interface Init Bean	-	-	-	-	-
Init_SubscriberIdentific ation_MCF	Subscriber Identification Module	-	-	-	-	-
Init_Timer_MCF	Timer Module Init Bean	-	-	-	-	-
Init_UART_MCF	UART Init Bean	STD	STD	STD	STD	STD
Init_USB_HOST_EHCI_ MCF	USB HOST Init Bean	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52236_80_L QFP	MCF52235_121_ MAPBGA	MCF52235_112_ LQFP	MCF52234_121_ MAPBGA	MCF52234_112_ LQFP
Init_USB_OTG_EHCI_MCF	USB OTG Init Bean	-	-	-	-	-
Init_USB_OTG_MCF	USB OTG Init Bean	-	-	-	-	-
Init_VoiceCodec_MCF	Voice Codec Init Bean	-	-	-	-	-
Init_WTM_MCF	Watchdog Timer Module Init Bean	-	-	-	-	-
InputPin	General 1-bit Input	STD	STD	STD	STD	STD
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD	STD
LongIO	General Long (32-bit) Input/Output	-	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD	STD
RTC	Real Time Clock	RTC	RTC	RTC	RTC	RTC
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD	STD
StringList	String List Converter	StringList	StringList	StringList	StringList	StringList
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	-	-	-	-	-
Term	ANSI Terminal	Term	Term	Term	Term	Term
TimeDate	Time and date	TimeDate	TimeDate	TimeDate	TimeDate	TimeDate
TimerInt	Periodic interrupt	STD	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD	STD
WatchDog	WatchDog bean	-	-	-	-	-
WordIO	General Word (16-bit) Input/Output	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52233_80_L QFP	MCF52233_112_ LQFP	MCF52232_80_L QFP	MCF52231_80_L QFP	MCF52231_112_ LQFP
ADC	A/D converter	STD	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave
BitIO	General 1-bit Input/Output	STD	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	-	STD	-	-	STD
Byte3IO	General Three-Bytes Input/Output	-	STD	-	-	STD
Byte4IO	General Four-Bytes Input/Output	-	-	-	-	-
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD	STD	STD	STD	STD
EventCntr32	Event counter 32-bit	STD	STD	STD	STD	STD
EventCntr8	Event counter 8-bit	STD	STD	STD	STD	STD
ExternalFile	External Binary File Converter	ExternalFile	ExternalFile	ExternalFile	ExternalFile	ExternalFile
ExtInt	External interrupt	STD	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD	STD
FreeCntr16	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr8	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
Init_ADC_MCF	Analog-to-Digital Converter Init Bean	STD	STD	STD	STD	STD
Init_ASP_MCF	Touchscreen Controller/Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_ATA_MCF	Advanced Technology Attachment (ATA)	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52233_80_L QFP	MCF52233_112_ LQFP	MCF52232_80_L QFP	MCF52231_80_L QFP	MCF52231_112_ LQFP
Init_AudioFunctions_M CF	Audio Interface Module Init Bean	-	-	-	-	-
Init_DMA_MCF	Direct memory access Init Bean	STD	STD	STD	STD	STD
Init_DSPI_MCF	DMA Serial Peripheral Interface Init Bean	-	-	-	-	-
Init_DTIM_MCF	DMA Timer Init Bean	STD	STD	STD	STD	STD
Init_eDMA_MCF	Enhanced direct memory access Init Bean	-	-	-	-	-
Init_EPORT_MCF	Edge port module (EPORT)	STD	STD	STD	STD	STD
Init_eSDHC_MCF	Enhanced Secure Digital Host Controller Init Bean	-	-	-	-	-
Init_FEC_MCF	Fast Ethernet Controller Init Bean	STD	STD	STD	STD	STD
Init_FlashMedia_MCF	Flash Media Interface	-	-	-	-	-
Init_FlexCAN_MCF	FlexCAN init bean	-	-	-	STD	STD
Init_GPIO_MCF	General Purpose Input/Output (GPIO)	STD	STD	STD	STD	STD
Init_GPT_MCF	General Purpose Timer Module Init Bean	STD	STD	STD	STD	STD
Init_I2C_MCF	Inter-IC Bus Init Bean	STD	STD	STD	STD	STD
Init_IIM_MCF	IC Identification (IIM) Init Bean	-	-	-	-	-
Init_LCDC_MCF	Liquid Crystal Display Controller	-	-	-	-	-
Init_MDHA_MCF	Message Digest Hardware Accelerator	-	-	-	-	-
Init_PCI_MCF	PCI Bus Controller	-	-	-	-	-
Init_PIT_MCF	Programmable Interrupt Timer Init Bean	STD	STD	STD	STD	STD
Init_PWM_MCF	Pulse Width Modulation Init Bean	STD	STD	STD	STD	STD
Init_QADC_MCF	Queued Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_QSPI_MCF	Queued Serial Peripheral Interface Init Bean	STD	STD	STD	STD	STD
Init_RNG_MCF	Random Number Generator	-	-	-	-	-
Init_RTC_MCF	Real Time Clock Init Bean	STD	STD	STD	STD	STD
Init_SKHA_MCF	Symmetric Key Hardware Accelerator	-	-	-	-	-
Init_SSI_MCF	Synchronous Serial Interface Init Bean	-	-	-	-	-
Init_SubscriberIdentific ation_MCF	Subscriber Identification Module	-	-	-	-	-
Init_Timer_MCF	Timer Module Init Bean	-	-	-	-	-
Init_UART_MCF	UART Init Bean	STD	STD	STD	STD	STD
Init_USB_HOST_EHCI_ MCF	USB HOST Init Bean	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52233_80_L	MCF52233_112_	MCF52232_80_L	MCF52231_80_L	MCF52231_112_
		QFP	LQFP	QFP	QFP	LQFP
Init_USB_OTG_EHCI_MCF	USB OTG Init Bean	-	-	-	-	-
Init_USB_OTG_MCF	USB OTG Init Bean	-	-	-	-	-
Init_VoiceCodec_MCF	Voice Codec Init Bean	-	-	-	-	-
Init_WTM_MCF	Watchdog Timer Module Init Bean	-	-	-	-	-
InputPin	General 1-bit Input	STD	STD	STD	STD	STD
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD	STD
LongIO	General Long (32-bit) Input/Output	-	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD	STD
RTC	Real Time Clock	RTC	RTC	RTC	RTC	RTC
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD	STD
StringList	String List Converter	StringList	StringList	StringList	StringList	StringList
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	-	-	-	-	-
Term	ANSI Terminal	Term	Term	Term	Term	Term
TimeDate	Time and date	TimeDate	TimeDate	TimeDate	TimeDate	TimeDate
TimerInt	Periodic interrupt	STD	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD	STD
WatchDog	WatchDog bean	-	-	-	-	-
WordIO	General Word (16-bit) Input/Output	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52230_80_L QFP	MCF52230_112_ LQFP	MCF52223_81_ MAPBGA	MCF52223_100_ LQFP	MCF52221_81_ MAPBGA
ADC	A/D converter	STD	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave
BitIO	General 1-bit Input/Output	STD	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	-	STD	-	STD	-
Byte3IO	General Three-Bytes Input/Output	-	STD	-	-	-
Byte4IO	General Four-Bytes Input/Output	-	-	-	-	-
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD	STD	STD	STD	STD
EventCntr32	Event counter 32-bit	STD	STD	STD	STD	STD
EventCntr8	Event counter 8-bit	STD	STD	STD	STD	STD
ExternalFile	External Binary File Converter	ExternalFile	ExternalFile	ExternalFile	ExternalFile	ExternalFile
ExtInt	External interrupt	STD	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD	STD
FreeCntr16	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr8	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
Init_ADC_MCF	Analog-to-Digital Converter Init Bean	STD	STD	STD	STD	STD
Init_ASP_MCF	Touchscreen Controller/Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_ATA_MCF	Advanced Technology Attachment (ATA)	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52230_80_L QFP	MCF52230_112_ LQFP	MCF52223_81_ MAPBGA	MCF52223_100_ LQFP	MCF52221_81_ MAPBGA
Init_AudioFunctions_M CF	Audio Interface Module Init Bean	-	-	-	-	-
Init_DMA_MCF	Direct memory access Init Bean	STD	STD	STD	STD	STD
Init_DSPI_MCF	DMA Serial Peripheral Interface Init Bean	-	-	-	-	-
Init_DTIM_MCF	DMA Timer Init Bean	STD	STD	STD	STD	STD
Init_eDMA_MCF	Enhanced direct memory access Init Bean	-	-	-	-	-
Init_EPORT_MCF	Edge port module (EPORT)	STD	STD	STD	STD	STD
Init_eSDHC_MCF	Enhanced Secure Digital Host Controller Init Bean	-	-	-	-	-
Init_FEC_MCF	Fast Ethernet Controller Init Bean	STD	STD	-	-	-
Init_FlashMedia_MCF	Flash Media Interface	-	-	-	-	-
Init_FlexCAN_MCF	FlexCAN init bean	-	-	-	-	-
Init_GPIO_MCF	General Purpose Input/Output (GPIO)	STD	STD	STD	STD	STD
Init_GPT_MCF	General Purpose Timer Module Init Bean	STD	STD	STD	STD	STD
Init_I2C_MCF	Inter-IC Bus Init Bean	STD	STD	STD	STD	STD
Init_IIM_MCF	IC Identification (IIM) Init Bean	-	-	-	-	-
Init_LCDC_MCF	Liquid Crystal Display Controller	-	-	-	-	-
Init_MDHA_MCF	Message Digest Hardware Accelerator	-	-	-	-	-
Init_PCI_MCF	PCI Bus Controller	-	-	-	-	-
Init_PIT_MCF	Programmable Interrupt Timer Init Bean	STD	STD	STD	STD	STD
Init_PWM_MCF	Pulse Width Modulation Init Bean	STD	STD	STD	STD	STD
Init_QADC_MCF	Queued Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_QSPI_MCF	Queued Serial Peripheral Interface Init Bean	STD	STD	STD	STD	STD
Init_RNG_MCF	Random Number Generator	-	-	-	-	-
Init_RTC_MCF	Real Time Clock Init Bean	STD	STD	STD	STD	STD
Init_SKHA_MCF	Symmetric Key Hardware Accelerator	-	-	-	-	-
Init_SSI_MCF	Synchronous Serial Interface Init Bean	-	-	-	-	-
Init_SubscriberIdentific ation_MCF	Subscriber Identification Module	-	-	-	-	-
Init_Timer_MCF	Timer Module Init Bean	-	-	-	-	-
Init_UART_MCF	UART Init Bean	STD	STD	STD	STD	STD
Init_USB_HOST_EHCI_ MCF	USB HOST Init Bean	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52230_80_L QFP	MCF52230_112_ LQFP	MCF52223_81_ MAPBGA	MCF52223_100_ LQFP	MCF52221_81_ MAPBGA
Init_USB_OTG_EHCI_ MCF	USB OTG Init Bean	-	-	-	-	-
Init_USB_OTG_MCF	USB OTG Init Bean	-	-	STD	STD	STD
Init_VoiceCodec_MCF	Voice Codec Init Bean	-	-	-	-	-
Init_WTM_MCF	Watchdog Timer Module Init Bean	-	-	-	-	-
InputPin	General 1-bit Input	STD	STD	STD	STD	STD
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD	STD
LongIO	General Long (32-bit) Input/Output	-	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD	STD
RTC	Real Time Clock	RTC	RTC	RTC	RTC	RTC
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD	STD
StringList	String List Converter	StringList	StringList	StringList	StringList	StringList
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	-	-	-	-	-
Term	ANSI Terminal	Term	Term	Term	Term	Term
TimeDate	Time and date	TimeDate	TimeDate	TimeDate	TimeDate	TimeDate
TimerInt	Periodic interrupt	STD	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD	STD
WatchDog	WatchDog bean	-	-	-	-	-
WordIO	General Word (16-bit) Input/Output	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52221_64_L QFP	MCF52213_64_L QFP	MCF52212_64_L QFP	MCF52211_81_ MAPBGA	MCF52211_64_L QFP_QFN
ADC	A/D converter	STD	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave
BitIO	General 1-bit Input/Output	STD	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	-	-	-	-	-
Byte3IO	General Three-Bytes Input/Output	-	-	-	-	-
Byte4IO	General Four-Bytes Input/Output	-	-	-	-	-
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD	STD	STD	STD	STD
EventCntr32	Event counter 32-bit	STD	STD	STD	STD	STD
EventCntr8	Event counter 8-bit	STD	STD	STD	STD	STD
ExternalFile	External Binary File Converter	ExternalFile	ExternalFile	ExternalFile	ExternalFile	ExternalFile
ExtInt	External interrupt	STD	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD	STD
FreeCntr16	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr8	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
Init_ADC_MCF	Analog-to-Digital Converter Init Bean	STD	STD	STD	STD	STD
Init_ASP_MCF	Touchscreen Controller/Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_ATA_MCF	Advanced Technology Attachment (ATA)	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52221_64_L QFP	MCF52213_64_L QFP	MCF52212_64_L QFP	MCF52211_81_ MAPBGA	MCF52211_64_L QFP_QFN
Init_AudioFunctions_M CF	Audio Interface Module Init Bean	-	-	-	-	-
Init_DMA_MCF	Direct memory access Init Bean	STD	STD	STD	STD	STD
Init_DSPI_MCF	DMA Serial Peripheral Interface Init Bean	-	-	-	-	-
Init_DTIM_MCF	DMA Timer Init Bean	STD	STD	STD	STD	STD
Init_eDMA_MCF	Enhanced direct memory access Init Bean	-	-	-	-	-
Init_EPORT_MCF	Edge port module (EPORT)	STD	STD	STD	STD	STD
Init_eSDHC_MCF	Enhanced Secure Digital Host Controller Init Bean	-	-	-	-	-
Init_FEC_MCF	Fast Ethernet Controller Init Bean	-	-	-	-	-
Init_FlashMedia_MCF	Flash Media Interface	-	-	-	-	-
Init_FlexCAN_MCF	FlexCAN init bean	-	-	-	-	-
Init_GPIO_MCF	General Purpose Input/Output (GPIO)	STD	STD	STD	STD	STD
Init_GPT_MCF	General Purpose Timer Module Init Bean	STD	STD	STD	STD	STD
Init_I2C_MCF	Inter-IC Bus Init Bean	STD	STD	STD	STD	STD
Init_IIM_MCF	IC Identification (IIM) Init Bean	-	-	-	-	-
Init_LCDC_MCF	Liquid Crystal Display Controller	-	-	-	-	-
Init_MDHA_MCF	Message Digest Hardware Accelerator	-	-	-	-	-
Init_PCI_MCF	PCI Bus Controller	-	-	-	-	-
Init_PIT_MCF	Programmable Interrupt Timer Init Bean	STD	STD	STD	STD	STD
Init_PWM_MCF	Pulse Width Modulation Init Bean	STD	STD	STD	STD	STD
Init_QADC_MCF	Queued Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_QSPI_MCF	Queued Serial Peripheral Interface Init Bean	STD	STD	STD	STD	STD
Init_RNG_MCF	Random Number Generator	-	-	-	-	-
Init_RTC_MCF	Real Time Clock Init Bean	STD	STD	STD	STD	STD
Init_SKHA_MCF	Symmetric Key Hardware Accelerator	-	-	-	-	-
Init_SSI_MCF	Synchronous Serial Interface Init Bean	-	-	-	-	-
Init_SubscriberIdentific ation_MCF	Subscriber Identification Module	-	-	-	-	-
Init_Timer_MCF	Timer Module Init Bean	-	-	-	-	-
Init_UART_MCF	UART Init Bean	STD	STD	STD	STD	STD
Init_USB_HOST_EHCI_ MCF	USB HOST Init Bean	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52221_64_L QFP	MCF52213_64_L QFP	MCF52212_64_L QFP	MCF52211_81_ MAPBGA	MCF52211_64_L QFP_QFN
Init_USB_OTG_EHCI_MCF	USB OTG Init Bean	-	-	-	-	-
Init_USB_OTG_MCF	USB OTG Init Bean	STD	STD	STD	STD	STD
Init_VoiceCodec_MCF	Voice Codec Init Bean	-	-	-	-	-
Init_WTM_MCF	Watchdog Timer Module Init Bean	-	STD	STD	STD	STD
InputPin	General 1-bit Input	STD	STD	STD	STD	STD
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD	STD
LongIO	General Long (32-bit) Input/Output	-	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD	STD
RTC	Real Time Clock	RTC	RTC	RTC	RTC	RTC
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD	STD
StringList	String List Converter	StringList	StringList	StringList	StringList	StringList
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	-	-	-	-	-
Term	ANSI Terminal	Term	Term	Term	Term	Term
TimeDate	Time and date	TimeDate	TimeDate	TimeDate	TimeDate	TimeDate
TimerInt	Periodic interrupt	STD	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD	STD
WatchDog	WatchDog bean	-	STD	STD	STD	STD
WordIO	General Word (16-bit) Input/Output	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52211_100_ LQFP	MCF52210_81_ MAPBGA	MCF52210_64_L QFP_QFN	MCF5216_256_ MAPBGA	MCF5214_256_ MAPBGA
ADC	A/D converter	STD	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave
BitIO	General 1-bit Input/Output	STD	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	STD	-	-	STD	STD
Byte3IO	General Three-Bytes Input/Output	-	-	-	STD	STD
Byte4IO	General Four-Bytes Input/Output	-	-	-	STD	STD
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD	STD	STD	STD	STD
EventCntr32	Event counter 32-bit	STD	STD	STD	STD	STD
EventCntr8	Event counter 8-bit	STD	STD	STD	STD	STD
ExternalFile	External Binary File Converter	ExternalFile	ExternalFile	ExternalFile	ExternalFile	ExternalFile
ExtInt	External interrupt	STD	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD	STD
FreeCntr16	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr8	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
Init_ADC_MCF	Analog-to-Digital Converter Init Bean	STD	STD	STD	-	-
Init_ASP_MCF	Touchscreen Controller/Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_ATA_MCF	Advanced Technology Attachment (ATA)	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52211_100_ LQFP	MCF52210_81_ MAPBGA	MCF52210_64_L QFP_QFN	MCF5216_256_ MAPBGA	MCF5214_256_ MAPBGA
Init_AudioFunctions_M CF	Audio Interface Module Init Bean	-	-	-	-	-
Init_DMA_MCF	Direct memory access Init Bean	STD	STD	STD	STD	STD
Init_DSPI_MCF	DMA Serial Peripheral Interface Init Bean	-	-	-	-	-
Init_DTIM_MCF	DMA Timer Init Bean	STD	STD	STD	STD	STD
Init_eDMA_MCF	Enhanced direct memory access Init Bean	-	-	-	-	-
Init_EPORT_MCF	Edge port module (EPORT)	STD	STD	STD	STD	STD
Init_eSDHC_MCF	Enhanced Secure Digital Host Controller Init Bean	-	-	-	-	-
Init_FEC_MCF	Fast Ethernet Controller Init Bean	-	-	-	-	-
Init_FlashMedia_MCF	Flash Media Interface	-	-	-	-	-
Init_FlexCAN_MCF	FlexCAN init bean	-	-	-	STD	STD
Init_GPIO_MCF	General Purpose Input/Output (GPIO)	STD	STD	STD	STD	STD
Init_GPT_MCF	General Purpose Timer Module Init Bean	STD	STD	STD	STD	STD
Init_I2C_MCF	Inter-IC Bus Init Bean	STD	STD	STD	STD	STD
Init_IIM_MCF	IC Identification (IIM) Init Bean	-	-	-	-	-
Init_LCDC_MCF	Liquid Crystal Display Controller	-	-	-	-	-
Init_MDHA_MCF	Message Digest Hardware Accelerator	-	-	-	-	-
Init_PCI_MCF	PCI Bus Controller	-	-	-	-	-
Init_PIT_MCF	Programmable Interrupt Timer Init Bean	STD	STD	STD	STD	STD
Init_PWM_MCF	Pulse Width Modulation Init Bean	STD	STD	STD	-	-
Init_QADC_MCF	Queued Analog-to-Digital Converter Init Bean	-	-	-	STD	STD
Init_QSPI_MCF	Queued Serial Peripheral Interface Init Bean	STD	STD	STD	STD	STD
Init_RNG_MCF	Random Number Generator	-	-	-	-	-
Init_RTC_MCF	Real Time Clock Init Bean	STD	STD	STD	-	-
Init_SKHA_MCF	Symmetric Key Hardware Accelerator	-	-	-	-	-
Init_SSI_MCF	Synchronous Serial Interface Init Bean	-	-	-	-	-
Init_SubscriberIdentific ation_MCF	Subscriber Identification Module	-	-	-	-	-
Init_Timer_MCF	Timer Module Init Bean	-	-	-	-	-
Init_UART_MCF	UART Init Bean	STD	STD	STD	STD	STD
Init_USB_HOST_EHCI_ MCF	USB HOST Init Bean	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52211_100_ LQFP	MCF52210_81_ MAPBGA	MCF52210_64_L QFP_QFN	MCF5216_256_ MAPBGA	MCF5214_256_ MAPBGA
Init_USB_OTG_EHCI_MCF	USB OTG Init Bean	-	-	-	-	-
Init_USB_OTG_MCF	USB OTG Init Bean	STD	STD	STD	-	-
Init_VoiceCodec_MCF	Voice Codec Init Bean	-	-	-	-	-
Init_WTM_MCF	Watchdog Timer Module Init Bean	STD	STD	STD	STD	STD
InputPin	General 1-bit Input	STD	STD	STD	STD	STD
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD	STD
LongIO	General Long (32-bit) Input/Output	-	-	-	STD	STD
PPG	Programmable pulse generation	STD	STD	STD	-	-
PWM	Pulse width modulation	STD	STD	STD	-	-
RTC	Real Time Clock	RTC	RTC	RTC	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD	STD
StringList	String List Converter	StringList	StringList	StringList	StringList	StringList
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	-	-	-	-	-
Term	ANSI Terminal	Term	Term	Term	Term	Term
TimeDate	Time and date	TimeDate	TimeDate	TimeDate	TimeDate	TimeDate
TimerInt	Periodic interrupt	STD	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD	STD
WatchDog	WatchDog bean	STD	STD	STD	STD	STD
WordIO	General Word (16-bit) Input/Output	-	-	-	STD	STD



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF5213_81_M APBGA	MCF5213_100_L QFP	MCF5212_81_M APBGA	MCF5212_64_L QFP	MCF52110_81_ MAPBGA
ADC	A/D converter	STD	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave
BitIO	General 1-bit Input/Output	STD	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	-	STD	-	-	-
Byte3IO	General Three-Bytes Input/Output	-	-	-	-	-
Byte4IO	General Four-Bytes Input/Output	-	-	-	-	-
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD	STD	STD	STD	STD
EventCntr32	Event counter 32-bit	STD	STD	STD	STD	STD
EventCntr8	Event counter 8-bit	STD	STD	STD	STD	STD
ExternalFile	External Binary File Converter	ExternalFile	ExternalFile	ExternalFile	ExternalFile	ExternalFile
ExtInt	External interrupt	STD	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD	STD
FreeCntr16	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr8	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
Init_ADC_MCF	Analog-to-Digital Converter Init Bean	STD	STD	STD	STD	STD
Init_ASP_MCF	Touchscreen Controller/Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_ATA_MCF	Advanced Technology Attachment (ATA)	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF5213_81_M APBGA	MCF5213_100_L QFP	MCF5212_81_M APBGA	MCF5212_64_L QFP	MCF52110_81_ MAPBGA
Init_AudioFunctions_M CF	Audio Interface Module Init Bean	-	-	-	-	-
Init_DMA_MCF	Direct memory access Init Bean	STD	STD	STD	STD	STD
Init_DSPI_MCF	DMA Serial Peripheral Interface Init Bean	-	-	-	-	-
Init_DTIM_MCF	DMA Timer Init Bean	STD	STD	STD	STD	STD
Init_eDMA_MCF	Enhanced direct memory access Init Bean	-	-	-	-	-
Init_EPORT_MCF	Edge port module (EPORT)	STD	STD	STD	STD	STD
Init_eSDHC_MCF	Enhanced Secure Digital Host Controller Init Bean	-	-	-	-	-
Init_FEC_MCF	Fast Ethernet Controller Init Bean	-	-	-	-	-
Init_FlashMedia_MCF	Flash Media Interface	-	-	-	-	-
Init_FlexCAN_MCF	FlexCAN init bean	STD	STD	-	-	-
Init_GPIO_MCF	General Purpose Input/Output (GPIO)	STD	STD	STD	STD	STD
Init_GPT_MCF	General Purpose Timer Module Init Bean	STD	STD	STD	STD	STD
Init_I2C_MCF	Inter-IC Bus Init Bean	STD	STD	STD	STD	STD
Init_IIM_MCF	IC Identification (IIM) Init Bean	-	-	-	-	-
Init_LCDC_MCF	Liquid Crystal Display Controller	-	-	-	-	-
Init_MDHA_MCF	Message Digest Hardware Accelerator	-	-	-	-	-
Init_PCI_MCF	PCI Bus Controller	-	-	-	-	-
Init_PIT_MCF	Programmable Interrupt Timer Init Bean	STD	STD	STD	STD	STD
Init_PWM_MCF	Pulse Width Modulation Init Bean	STD	STD	STD	STD	STD
Init_QADC_MCF	Queued Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_QSPI_MCF	Queued Serial Peripheral Interface Init Bean	STD	STD	STD	STD	STD
Init_RNG_MCF	Random Number Generator	-	-	-	-	-
Init_RTC_MCF	Real Time Clock Init Bean	-	-	-	-	STD
Init_SKHA_MCF	Symmetric Key Hardware Accelerator	-	-	-	-	-
Init_SSI_MCF	Synchronous Serial Interface Init Bean	-	-	-	-	-
Init_SubscriberIdentific ation_MCF	Subscriber Identification Module	-	-	-	-	-
Init_Timer_MCF	Timer Module Init Bean	-	-	-	-	-
Init_UART_MCF	UART Init Bean	STD	STD	STD	STD	STD
Init_USB_HOST_EHCI_ MCF	USB HOST Init Bean	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF5213_81_M APBGA	MCF5213_100_L QFP	MCF5212_81_M APBGA	MCF5212_64_L QFP	MCF52110_81_ MAPBGA
Init_USB_OTG_EHCI_MCF	USB OTG Init Bean	-	-	-	-	-
Init_USB_OTG_MCF	USB OTG Init Bean	-	-	-	-	-
Init_VoiceCodec_MCF	Voice Codec Init Bean	-	-	-	-	-
Init_WTM_MCF	Watchdog Timer Module Init Bean	-	-	-	-	STD
InputPin	General 1-bit Input	STD	STD	STD	STD	STD
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD	STD
LongIO	General Long (32-bit) Input/Output	-	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD	STD
RTC	Real Time Clock	-	-	-	-	RTC
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD	STD
StringList	String List Converter	StringList	StringList	StringList	StringList	StringList
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	-	-	-	-	-
Term	ANSI Terminal	Term	Term	Term	Term	Term
TimeDate	Time and date	TimeDate	TimeDate	TimeDate	TimeDate	TimeDate
TimerInt	Periodic interrupt	STD	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD	STD
WatchDog	WatchDog bean	-	-	-	-	STD
WordIO	General Word (16-bit) Input/Output	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52110_64_L QFP_QFN	MCF52110_100_ LQFP	MCF5211_81_M APBGA	MCF5211_64_Q FN	MCF5211_64_L QFP
ADC	A/D converter	STD	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave
BitIO	General 1-bit Input/Output	STD	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	-	STD	-	-	-
Byte3IO	General Three-Bytes Input/Output	-	-	-	-	-
Byte4IO	General Four-Bytes Input/Output	-	-	-	-	-
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD	STD	STD	STD	STD
EventCntr32	Event counter 32-bit	STD	STD	STD	STD	STD
EventCntr8	Event counter 8-bit	STD	STD	STD	STD	STD
ExternalFile	External Binary File Converter	ExternalFile	ExternalFile	ExternalFile	ExternalFile	ExternalFile
ExtInt	External interrupt	STD	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD	STD
FreeCntr16	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr8	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
Init_ADC_MCF	Analog-to-Digital Converter Init Bean	STD	STD	STD	STD	STD
Init_ASP_MCF	Touchscreen Controller/Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_ATA_MCF	Advanced Technology Attachment (ATA)	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52110_64_L QFP_QFN	MCF52110_100_ LQFP	MCF5211_81_M APBGA	MCF5211_64_Q FN	MCF5211_64_L QFP
Init_AudioFunctions_M CF	Audio Interface Module Init Bean	-	-	-	-	-
Init_DMA_MCF	Direct memory access Init Bean	STD	STD	STD	STD	STD
Init_DSPI_MCF	DMA Serial Peripheral Interface Init Bean	-	-	-	-	-
Init_DTIM_MCF	DMA Timer Init Bean	STD	STD	STD	STD	STD
Init_eDMA_MCF	Enhanced direct memory access Init Bean	-	-	-	-	-
Init_EPORT_MCF	Edge port module (EPORT)	STD	STD	STD	STD	STD
Init_eSDHC_MCF	Enhanced Secure Digital Host Controller Init Bean	-	-	-	-	-
Init_FEC_MCF	Fast Ethernet Controller Init Bean	-	-	-	-	-
Init_FlashMedia_MCF	Flash Media Interface	-	-	-	-	-
Init_FlexCAN_MCF	FlexCAN init bean	-	-	-	STD	-
Init_GPIO_MCF	General Purpose Input/Output (GPIO)	STD	STD	STD	STD	STD
Init_GPT_MCF	General Purpose Timer Module Init Bean	STD	STD	STD	STD	STD
Init_I2C_MCF	Inter-IC Bus Init Bean	STD	STD	STD	STD	STD
Init_IIM_MCF	IC Identification (IIM) Init Bean	-	-	-	-	-
Init_LCDC_MCF	Liquid Crystal Display Controller	-	-	-	-	-
Init_MDHA_MCF	Message Digest Hardware Accelerator	-	-	-	-	-
Init_PCI_MCF	PCI Bus Controller	-	-	-	-	-
Init_PIT_MCF	Programmable Interrupt Timer Init Bean	STD	STD	STD	STD	STD
Init_PWM_MCF	Pulse Width Modulation Init Bean	STD	STD	STD	STD	STD
Init_QADC_MCF	Queued Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_QSPI_MCF	Queued Serial Peripheral Interface Init Bean	STD	STD	STD	STD	STD
Init_RNG_MCF	Random Number Generator	-	-	-	-	-
Init_RTC_MCF	Real Time Clock Init Bean	STD	STD	-	-	-
Init_SKHA_MCF	Symmetric Key Hardware Accelerator	-	-	-	-	-
Init_SSI_MCF	Synchronous Serial Interface Init Bean	-	-	-	-	-
Init_SubscriberIdentific ation_MCF	Subscriber Identification Module	-	-	-	-	-
Init_Timer_MCF	Timer Module Init Bean	-	-	-	-	-
Init_UART_MCF	UART Init Bean	STD	STD	STD	STD	STD
Init_USB_HOST_EHCI_ MCF	USB HOST Init Bean	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52110_64_L QFP_QFN	MCF52110_100_ LQFP	MCF5211_81_M APBGA	MCF5211_64_Q FN	MCF5211_64_L QFP
Init_USB_OTG_EHCI_MCF	USB OTG Init Bean	-	-	-	-	-
Init_USB_OTG_MCF	USB OTG Init Bean	-	-	-	-	-
Init_VoiceCodec_MCF	Voice Codec Init Bean	-	-	-	-	-
Init_WTM_MCF	Watchdog Timer Module Init Bean	STD	STD	-	-	-
InputPin	General 1-bit Input	STD	STD	STD	STD	STD
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD	STD
LongIO	General Long (32-bit) Input/Output	-	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD	STD
RTC	Real Time Clock	RTC	RTC	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD	STD
StringList	String List Converter	StringList	StringList	StringList	StringList	StringList
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	-	-	-	-	-
Term	ANSI Terminal	Term	Term	Term	Term	Term
TimeDate	Time and date	TimeDate	TimeDate	TimeDate	TimeDate	TimeDate
TimerInt	Periodic interrupt	STD	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD	STD
WatchDog	WatchDog bean	STD	STD	-	-	-
WordIO	General Word (16-bit) Input/Output	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52100_81_ MAPBGA	MCF52100_64_L QFP_QFN	MCF5208_196_ MAPBGA	MCF5208_160_Q FP	MCF5207_144_ MAPBGA
ADC	A/D converter	STD	STD	-	-	-
AsynchroMaster	Asynchronous serial communication - master	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster	AsynchroMaster
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave	AsynchroSlave
BitIO	General 1-bit Input/Output	STD	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	-	-	STD	STD	-
Byte3IO	General Three-Bytes Input/Output	-	-	STD	STD	-
Byte4IO	General Four-Bytes Input/Output	-	-	-	-	-
BytelO	General Byte Input/Output (8 bits)	STD	STD	STD	STD	-
Capture	Timer capture encapsulation	STD	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD	STD	STD	STD	STD
EventCntr32	Event counter 32-bit	STD	STD	STD	STD	STD
EventCntr8	Event counter 8-bit	STD	STD	STD	STD	STD
ExternalFile	External Binary File Converter	ExternalFile	ExternalFile	ExternalFile	ExternalFile	ExternalFile
ExtInt	External interrupt	STD	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD	STD
FreeCntr16	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
FreeCntr8	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD	STD
Init_ADC_MCF	Analog-to-Digital Converter Init Bean	STD	STD	-	-	-
Init_ASP_MCF	Touchscreen Controller/Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_ATA_MCF	Advanced Technology Attachment (ATA)	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52100_81_ MAPBGA	MCF52100_64_L QFP_QFN	MCF5208_196_ MAPBGA	MCF5208_160_Q FP	MCF5207_144_ MAPBGA
Init_AudioFunctions_M CF	Audio Interface Module Init Bean	-	-	-	-	-
Init_DMA_MCF	Direct memory access Init Bean	STD	STD	-	-	-
Init_DSPI_MCF	DMA Serial Peripheral Interface Init Bean	-	-	-	-	-
Init_DTIM_MCF	DMA Timer Init Bean	STD	STD	STD	STD	STD
Init_eDMA_MCF	Enhanced direct memory access Init Bean	-	-	STD	STD	STD
Init_EPORT_MCF	Edge port module (EPORT)	STD	STD	STD	STD	STD
Init_eSDHC_MCF	Enhanced Secure Digital Host Controller Init Bean	-	-	-	-	-
Init_FEC_MCF	Fast Ethernet Controller Init Bean	-	-	STD	STD	-
Init_FlashMedia_MCF	Flash Media Interface	-	-	-	-	-
Init_FlexCAN_MCF	FlexCAN init bean	-	-	-	-	-
Init_GPIO_MCF	General Purpose Input/Output (GPIO)	STD	STD	STD	STD	STD
Init_GPT_MCF	General Purpose Timer Module Init Bean	STD	STD	-	-	-
Init_I2C_MCF	Inter-IC Bus Init Bean	STD	STD	STD	STD	STD
Init_IIM_MCF	IC Identification (IIM) Init Bean	-	-	-	-	-
Init_LCDC_MCF	Liquid Crystal Display Controller	-	-	-	-	-
Init_MDHA_MCF	Message Digest Hardware Accelerator	-	-	-	-	-
Init_PCI_MCF	PCI Bus Controller	-	-	-	-	-
Init_PIT_MCF	Programmable Interrupt Timer Init Bean	STD	STD	STD	STD	STD
Init_PWM_MCF	Pulse Width Modulation Init Bean	STD	STD	-	-	-
Init_QADC_MCF	Queued Analog-to-Digital Converter Init Bean	-	-	-	-	-
Init_QSPI_MCF	Queued Serial Peripheral Interface Init Bean	STD	STD	STD	STD	STD
Init_RNG_MCF	Random Number Generator	-	-	-	-	-
Init_RTC_MCF	Real Time Clock Init Bean	STD	STD	-	-	-
Init_SKHA_MCF	Symmetric Key Hardware Accelerator	-	-	-	-	-
Init_SSI_MCF	Synchronous Serial Interface Init Bean	-	-	-	-	-
Init_SubscriberIdentific ation_MCF	Subscriber Identification Module	-	-	-	-	-
Init_Timer_MCF	Timer Module Init Bean	-	-	-	-	-
Init_UART_MCF	UART Init Bean	STD	STD	STD	STD	STD
Init_USB_HOST_EHCI_ MCF	USB HOST Init Bean	-	-	-	-	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF52100_81_ MAPBGA	MCF52100_64_L QFP_QFN	MCF5208_196_ MAPBGA	MCF5208_160_Q FP	MCF5207_144_ MAPBGA
Init_USB_OTG_EHCI_MCF	USB OTG Init Bean	-	-	-	-	-
Init_USB_OTG_MCF	USB OTG Init Bean	-	-	-	-	-
Init_VoiceCodec_MCF	Voice Codec Init Bean	-	-	-	-	-
Init_WTM_MCF	Watchdog Timer Module Init Bean	STD	STD	STD	STD	STD
InputPin	General 1-bit Input	STD	STD	STD	STD	STD
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD	STD
LongIO	General Long (32-bit) Input/Output	-	-	-	-	-
PPG	Programmable pulse generation	STD	STD	-	-	-
PWM	Pulse width modulation	STD	STD	-	-	-
RTC	Real Time Clock	RTC	RTC	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD	STD
StringList	String List Converter	StringList	StringList	StringList	StringList	StringList
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	-	-	-	-	-
Term	ANSI Terminal	Term	Term	Term	Term	Term
TimeDate	Time and date	TimeDate	TimeDate	TimeDate	TimeDate	TimeDate
TimerInt	Periodic interrupt	STD	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD	STD
WatchDog	WatchDog bean	STD	STD	STD	STD	STD
WordIO	General Word (16-bit) Input/Output	-	-	STD	STD	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF5207_144_L QFP
ADC	A/D converter	-
AsynchroMaster	Asynchronous serial communication - master	AsynchroMaster
AsynchroSerial	Asynchronous serial communication	STD
AsynchroSlave	Asynchronous serial communication - slave	AsynchroSlave
BitIO	General 1-bit Input/Output	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD
BWimage	Black & White image	STD
Byte2IO	General Two-Bytes Input/Output	-
Byte3IO	General Three-Bytes Input/Output	-
Byte4IO	General Four-Bytes Input/Output	-
BytelIO	General Byte Input/Output (8 bits)	-
Capture	Timer capture encapsulation	STD
COLimage	Color image	STD
EventCntr16	Event counter 16-bit	STD
EventCntr32	Event counter 32-bit	STD
EventCntr8	Event counter 8-bit	STD
ExternalFile	External Binary File Converter	ExternalFile
ExtInt	External interrupt	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	STD
FreeCntr16	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD
FreeCntr8	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD
Init_ADC_MCF	Analog-to-Digital Converter Init Bean	-
Init_ASP_MCF	Touchscreen Controller/Analog-to-Digital Converter Init Bean	-
Init_ATA_MCF	Advanced Technology Attachment (ATA)	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF5207_144_L QFP
Init_AudioFunctions_MCF	Audio Interface Module Init Bean	-
Init_DMA_MCF	Direct memory access Init Bean	-
Init_DSPI_MCF	DMA Serial Peripheral Interface Init Bean	-
Init_DTIM_MCF	DMA Timer Init Bean	STD
Init_eDMA_MCF	Enhanced direct memory access Init Bean	STD
Init_EPORT_MCF	Edge port module (EPORT)	STD
Init_eSDHC_MCF	Enhanced Secure Digital Host Controller Init Bean	-
Init_FEC_MCF	Fast Ethernet Controller Init Bean	-
Init_FlashMedia_MCF	Flash Media Interface	-
Init_FlexCAN_MCF	FlexCAN init bean	-
Init_GPIO_MCF	General Purpose Input/Output (GPIO)	STD
Init_GPT_MCF	General Purpose Timer Module Init Bean	-
Init_I2C_MCF	Inter-IC Bus Init Bean	STD
Init_IIM_MCF	IC Identification (IIM) Init Bean	-
Init_LCDC_MCF	Liquid Crystal Display Controller	-
Init_MDHA_MCF	Message Digest Hardware Accelerator	-
Init_PCI_MCF	PCI Bus Controller	-
Init_PIT_MCF	Programmable Interrupt Timer Init Bean	STD
Init_PWM_MCF	Pulse Width Modulation Init Bean	-
Init_QADC_MCF	Queued Analog-to-Digital Converter Init Bean	-
Init_QSPI_MCF	Queued Serial Peripheral Interface Init Bean	STD
Init_RNG_MCF	Random Number Generator	-
Init_RTC_MCF	Real Time Clock Init Bean	-
Init_SKHA_MCF	Symmetric Key Hardware Accelerator	-
Init_SSI_MCF	Synchronous Serial Interface Init Bean	-
Init_SubscriberIdentification_MCF	Subscriber Identification Module	-
Init_Timer_MCF	Timer Module Init Bean	-
Init_UART_MCF	UART Init Bean	STD
Init_USB_HOST_EHCI_MCF	USB HOST Init Bean	-



CodeWarrior for ColdFire Architectures V7.2 Embedded Components Overview

Component\ CPU family	Component description	MCF5207_144_L QFP
Init_USB_OTG_EHCI_MCF	USB OTG Init Bean	-
Init_USB_OTG_MCF	USB OTG Init Bean	-
Init_VoiceCodec_MCF	Voice Codec Init Bean	-
Init_WTM_MCF	Watchdog Timer Module Init Bean	STD
InputPin	General 1-bit Input	STD
InterruptVector	Interrupt vector handled in user code	STD
LongIO	General Long (32-bit) Input/Output	-
PPG	Programmable pulse generation	-
PWM	Pulse width modulation	-
RTC	Real Time Clock	-
RTIshared	Real Time Interrupt Shareable	STD
StringList	String List Converter	StringList
SynchroMaster	Master for synchronous serial communication	STD
SynchroSlave	Slave for synchronous serial communication	-
Term	ANSI Terminal	Term
TimeDate	Time and date	TimeDate
TimerInt	Periodic interrupt	STD
TimerOut	Flip-flop output 1:1	STD
WatchDog	WatchDog bean	STD
WordIO	General Word (16-bit) Input/Output	-