

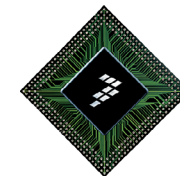


CodeWarrior

Development Suite

for Microcontrollers V6.3

Beans Overview





Component\CPU family	Component description	HCS08	RS08	ColdFireV1	MCF51 QE128-80, QE96-80
ADC	A/D converter	STD*	STD*	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO*	-	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD*	STD*	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO*	-	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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
ByteIO	General Byte Input/Output (8 bits)	STD*	STD*	STD	STD
Capture	Timer capture encapsulation	STD*	STD*	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD*	STD*	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	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
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	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
FreescaleAnalogComp	Analog comparator on Freescale derivatives CAN communication for Freescale	PRO*	PRO*	PRO*	PRO
FreescaleCAN	implementation	PRO*	-	PRO*	-
FreescaleCMT	Freescale Carrier Modulator Timer	PRO*	-	PRO*	-



Component\CPU family	Component description	HCS08	RS08	ColdFireV1	MCF51 QE128-80, QE96-80
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	STD*	STD
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	STD*	-	-	-
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	STD*	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	STD	STD
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD*	-	-	-
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	STD*	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	STD*	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	STD*	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	STD*	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	STD*	STD
Init_COP_HCS08	Computer Operating Properly (COP)	STD*	-	-	-
Init_COP_RS08	Computer Operating Properly (COP)	-	STD*	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	STD*	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	STD*	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	STD*	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	STD*	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	STD*	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	STD*	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	STD	STD
Init_FLASH_HCS08	Flash Memory (FLASH)	STD*	-	-	-
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	STD*	-
Init_FTM_HCS08	Flexible Timer Init Bean	STD*	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	STD	STD
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD*	-	-	-
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	STD*	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	STD*	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	STD*	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	STD*	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	STD	STD
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD*	-	-	-
Init_IIC_RS08	Inter-IC Bus (IIC)	-	STD*	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	STD	STD
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD*	-	-	-
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	STD*	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	STD	STD
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD*	-	-	-
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	STD*	-	-



Component\CPU family	Component description	HCS08	RS08	ColdFireV1	MCF51 QE128-80, QE96-80
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	STD*	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	STD*	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	STD*	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	STD*	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	STD*	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	STD*	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	STD*	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	STD*	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	STD*	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	STD*	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	STD*	-	-	-
Init_PRAAMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	STD*	-
Init_PRAAMP_HCS08	Programmable Reference Analog Comparator	STD*	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	STD*	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	STD*	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	STD*	STD
Init_RTC_HCS08	Real-Time Counter(RTC)	STD*	-	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	STD*	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	STD*	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	STD*	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	STD	STD
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD*	-	-	-
Init_SCI_RS08	Serial Communications Interface (SCI)	-	STD*	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	STD*	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	STD	STD
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD*	-	-	-
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	STD*	-	-
Init_TOD_HCS08	Time Of Day (TOD)	STD*	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	STD	STD
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD*	-	-	-
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	STD*	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	STD*	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	STD*	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	STD*	-



Component\CPU family	Component description	HCS08	RS08	ColdFireV1	MCF51 QE128-80, QE96-80
Init_VREF_HCS08	Voltage Reference Init Bean	STD*	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	STD*	-
InputPin	General 1-bit Input	-	-	STD*	-
IntEEPROM	Internal EEPROM	STD*	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO*	PRO*	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD*	STD*	STD	STD
IntFLASH	Internal FLASH	PRO*	-	PRO	PRO
KBI	Keyboard	PRO*	PRO	PRO	PRO
LCD	Liquid Crystal Display	PRO*	PRO*	PRO*	-
PPG	Programmable pulse generation	STD*	STD*	STD	STD
PWM	Pulse width modulation	STD*	STD*	STD	STD
PWMMC	Pulse width modulation for motor control	PRO*	-	PRO*	-
RTC	Real Time Clock	-	-	PRO*	-
RTIshared	Real Time Interrupt Shareable	STD*	STD*	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD*	STD*	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD*	STD*	STD	STD
Term	ANSI Terminal	PRO*	PRO*	PRO	PRO
TimeDate	Time and date	PRO*	PRO*	PRO	PRO
TimerInt	Periodic interrupt	STD*	STD*	STD	STD
TimerOut	Flip-flop output 1:1	STD*	STD*	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MCF51 QE128-64, QE32-64, QE64-64, QE96-64	MCF51 JM128-80, JM32-80, JM64-80	MCF51 JM128-64, JM32-64, JM64-64	MCF51 JM128-44, JM32-44, JM64-44
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	STD	STD	STD	-
Byte3IO	General Three-Bytes Input/Output	STD	STD	STD	-
Byte4IO	General Four-Bytes Input/Output	STD	STD	STD	-
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD
FreeCntr					
	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr16					
	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr32					
	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr8					
FreescaleAnalogComp	Analog comparator on Freescale derivatives	PRO	PRO	PRO	PRO
	CAN communication for Freescale implementation	-	PRO	PRO	-
FreescaleCAN					
FreescaleCMT	Freescale Carrier Modulator Timer	-	PRO	PRO	PRO

**Component\CPU family****Component description****MCF51
QE128-64,
QE32-64,
QE64-64,
QE96-64****MCF51
JM128-80,
JM32-80,
JM64-80****MCF51
JM128-64,
JM32-64,
JM64-64****MCF51
JM128-44,
JM32-44,
JM64-44**

Component\CPU family	Component description	MCF51 QE128-64, QE32-64, QE64-64, QE96-64	MCF51 JM128-80, JM32-80, JM64-80	MCF51 JM128-64, JM32-64, JM64-64	MCF51 JM128-44, JM32-44, JM64-44
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	STD	STD	STD	STD
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	STD	STD	STD
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_HCS08	Computer Operating Properly (COP)	-	-	-	-
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FLASH_HCS08	Flash Memory (FLASH)	-	-	-	-
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_HCS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRQ_HCS08	External Interrupt Module (IRQ)	-	-	-	-
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MCF51 QE128-64, QE32-64, QE64-64, QE96-64	MCF51 JM128-80, JM32-80, JM64-80	MCF51 JM128-64, JM32-64, JM64-64	MCF51 JM128-44, JM32-44, JM64-44
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	STD	STD	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRACMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRACMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	STD	STD	STD
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	STD	STD	STD	STD
Init_RTC_HCS08	Real-Time Counter(RTC)	-	-	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_HCS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	STD	STD	STD
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MCF51 QE128-64, QE32-64, QE64-64, QE96-64	MCF51 JM128-80, JM32-80, JM64-80	MCF51 JM128-64, JM32-64, JM64-64	MCF51 JM128-44, JM32-44, JM64-44
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MCF51 EM256-80	MCF51 EM256-100	MCF51 EM128-80	MCF51 EM128-100
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	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
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	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
FreescaleAnalogComp	Analog comparator on Freescale derivatives	PRO	PRO	PRO	PRO
FreescaleCAN	CAN communication for Freescale implementation	-	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MCF51 EM256-80	MCF51 EM256-100	MCF51 EM128-80	MCF51 EM128-100
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_HCS08	Computer Operating Properly (COP)	-	-	-	-
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FLASH_HCS08	Flash Memory (FLASH)	-	-	-	-
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_HCS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRQ_HCS08	External Interrupt Module (IRQ)	-	-	-	-
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	STD	STD	STD	STD
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MCF51 EM256-80	MCF51 EM256-100	MCF51 EM128-80	MCF51 EM128-100
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	STD	STD	STD	STD
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	STD	STD	STD	STD
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	STD	STD	STD	STD
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRACMP_COLDFIREV1	Programmable Reference Analog Comparator	STD	STD	STD	STD
Init_PRACMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	-	-	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_HCS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	STD	STD	STD	STD



Component\CPU family	Component description	MCF51 EM256-80	MCF51 EM256-100	MCF51 EM128-80	MCF51 EM128-100
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	PRO	PRO	PRO	PRO
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	PRO	PRO	PRO	PRO
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MCF51 CN128-80	MCF51 CN128-64	MCF51 CN128-48	MCF51 AG128-80, AG96-80
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	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
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	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
FreescaleAnalogComp	Analog comparator on Freescale derivatives CAN communication for Freescale	-	-	-	PRO
FreescaleCAN	implementation	-	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MCF51 CN128-80	MCF51 CN128-64	MCF51 CN128-48	MCF51 AG128-80, AG96-80
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	STD	STD	STD	-
Init_COP_HCS08	Computer Operating Properly (COP)	-	-	-	-
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	STD
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	STD
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	STD
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	STD	STD	STD	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FLASH_HCS08	Flash Memory (FLASH)	-	-	-	-
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	STD
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	STD
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	STD
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_HCS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRQ_HCS08	External Interrupt Module (IRQ)	-	-	-	-
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MCF51 CN128-80	MCF51 CN128-64	MCF51 CN128-48	MCF51 AG128-80, AG96-80
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	STD	STD	STD	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	STD
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRAAMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRAAMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	STD	STD	STD	STD
Init_RTC_HCS08	Real-Time Counter(RTC)	-	-	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_HCS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MCF51 CN128-80	MCF51 CN128-64	MCF51 CN128-48	MCF51 AG128-80, AG96-80
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	STD
InputPin	General 1-bit Input	-	-	-	STD
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	PRO
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MCF51 AG128-64, AG96-64	MCF51 AC256B-80, AC128C-80	MCF51 AC256B-64, AC128C-64	MCF51 AC256A-80, AC128A-80
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	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
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	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
FreescaleAnalogComp	Analog comparator on Freescale derivatives CAN communication for Freescale implementation	PRO	PRO	PRO	PRO
FreescaleCAN		-	-	-	PRO
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MCF51 AG128-64, AG96-64	MCF51 AC256B-80, AC128C-80	MCF51 AC256B-64, AC128C-64	MCF51 AC256A-80, AC128A-80
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	STD	STD	STD
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	STD	STD	STD
Init_COP_HCS08	Computer Operating Properly (COP)	-	-	-	-
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	STD	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	STD	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	STD	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FLASH_HCS08	Flash Memory (FLASH)	-	-	-	-
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	STD	STD	STD	STD
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	STD	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	STD	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_HCS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRQ_HCS08	External Interrupt Module (IRQ)	-	-	-	-
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MCF51 AG128-64, AG96-64	MCF51 AC256B-80, AC128C-80	MCF51 AC256B-64, AC128C-64	MCF51 AC256A-80, AC128A-80
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	STD
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	STD	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRAAMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRAAMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	STD	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	-	-	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	STD	STD	STD
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_HCS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MCF51 AG128-64, AG96-64	MCF51 AC256B-80, AC128C-80	MCF51 AC256B-64, AC128C-64	MCF51 AC256A-80, AC128A-80
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	STD	-	-	-
InputPin	General 1-bit Input	STD	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	PRO	PRO	PRO	PRO
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MCF51 AC256A-64, AC128A-64	MC9S08SV16_32 _SDIP, MC9S08SV8_32_ SDIP	MC9S08SV16_32 _LQFP, MC9S08SV8_32_ LQFP	MC9S08SL16-28, MC9S08SL8-28
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	STD	STD	STD	STD
Byte3IO	General Three-Bytes Input/Output	STD	-	-	-
Byte4IO	General Four-Bytes Input/Output	STD	-	-	-
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD
FreeCntr					
	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr16					
	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr32					
	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr8					
FreescaleAnalogComp	Analog comparator on Freescale derivatives CAN communication for Freescale implementation	PRO	PRO	PRO	PRO
FreescaleCAN		PRO	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MCF51 AC256A-64, AC128A-64	MC9S08SV16_32 _SDIP, MC9S08SV8_32_ SDIP	MC9S08SV16_32 _LQFP, MC9S08SV8_32_ LQFP	MC9S08SL16-28, MC9S08SL8-28
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	STD	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	-	STD	STD	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	STD	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	-	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	STD	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	-	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	STD	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	-	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	STD	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	STD	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	-	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	STD	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	-	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	STD	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	-	STD	STD	-
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	STD	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	-	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MCF51 AC256A-64, AC128A-64	MC9S08SV16_32 _SDIP, MC9S08SV8_32_ SDIP	MC9S08SV16_32 _LQFP, MC9S08SV8_32_ LQFP	MC9S08SL16-28, MC9S08SL8-28
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	STD	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	STD	STD	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRACTMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRACTMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	-	STD	STD	STD
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	STD	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	STD	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	-	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	STD
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	STD	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	-	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	STD	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	-	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MCF51 AC256A-64, AC128A-64	MC9S08SV16_32 _SDIP, MC9S08SV8_32_ SDIP	MC9S08SV16_32 _LQFP, MC9S08SV8_32_ LQFP	MC9S08SL16-28, MC9S08SL8-28
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	STD
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	PRO	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08SL16-20, MC9S08SL8-20	MC9S08SH8-8, MC9S08SH4-8	MC9S08SH8-24, MC9S08SH4-24	MC9S08SH8-20, MC9S08SH4-20
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	-	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	-	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	-	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD
FreeCntr					
	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr16					
	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr32					
	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr8					
FreescaleAnalogComp	Analog comparator on Freescale derivatives	PRO	PRO	PRO	PRO
	CAN communication for Freescale implementation	-	-	-	-
FreescaleCAN					
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MC9S08SL16-20, MC9S08SL8-20	MC9S08SH8-8, MC9S08SH4-8	MC9S08SH8-24, MC9S08SH4-24	MC9S08SH8-20, MC9S08SH4-20
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	STD	STD	STD	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	-	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08SL16-20, MC9S08SL8-20	MC9S08SH8-8, MC9S08SH4-8	MC9S08SH8-24, MC9S08SH4-24	MC9S08SH8-20, MC9S08SH4-20
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	STD	STD	STD
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRAAMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRAAMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	STD	STD	STD	STD
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	-	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	STD	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	-	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08SL16-20, MC9S08SL8-20	MC9S08SH8-8, MC9S08SH4-8	MC9S08SH8-24, MC9S08SH4-24	MC9S08SH8-20, MC9S08SH4-20
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	STD	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	-	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	-	STD	STD
Term	ANSI Terminal	PRO	-	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08SH8-16, MC9S08SH4-16	MC9S08SH32-28, MC9S08SH16-28	MC9S08SH32-20, MC9S08SH16-20	MC9S08SH32-16, MC9S08SH16-16
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.				
BasicProperties		free	free	free	free
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	-	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
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
	Time measurement based on counter value (suitable for short time periods)				
FreeCntr		STD	STD	STD	STD
	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).				
FreeCntr16		STD	STD	STD	STD
	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).				
FreeCntr32		STD	STD	STD	STD
	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).				
FreeCntr8		STD	STD	STD	STD
FreescaleAnalogComp	Analog comparator on Freescale derivatives	PRO	PRO	PRO	PRO
	CAN communication for Freescale implementation	-	-	-	-
FreescaleCAN		-	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-

**Component\CPU family****Component description****MC9S08SH8-16,
MC9S08SH4-16****MC9S08SH32-28,
MC9S08SH16-28****MC9S08SH32-20,
MC9S08SH16-20****MC9S08SH32-16,
MC9S08SH16-16**

Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	STD	STD	STD	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08SH8-16, MC9S08SH4-16	MC9S08SH32-28, MC9S08SH16-28	MC9S08SH32-20, MC9S08SH16-20	MC9S08SH32-16, MC9S08SH16-16
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	STD	STD	STD	STD
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRAAMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRAAMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	STD	STD	STD	STD
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08SH8-16, MC9S08SH4-16	MC9S08SH32-28, MC9S08SH16-28	MC9S08SH32-20, MC9S08SH16-20	MC9S08SH32-16, MC9S08SH16-16
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08SG8-8, MC9S08SG4-8	MC9S08SG8-20, MC9S08SG4-20	MC9S08SG8-16, MC9S08SG4-16	MC9S08SG32-28, MC9S08SG16-28
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	-	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	-	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	-	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	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
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	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
FreescaleAnalogComp	Analog comparator on Freescale derivatives	PRO	PRO	PRO	PRO
FreescaleCAN	CAN communication for Freescale implementation	-	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MC9S08SG8-8, MC9S08SG4-8	MC9S08SG8-20, MC9S08SG4-20	MC9S08SG8-16, MC9S08SG4-16	MC9S08SG32-28, MC9S08SG16-28
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	STD	STD	STD	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	-	-	-	-
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08SG8-8, MC9S08SG4-8	MC9S08SG8-20, MC9S08SG4-20	MC9S08SG8-16, MC9S08SG4-16	MC9S08SG32-28, MC9S08SG16-28
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	STD	STD	STD	STD
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRACMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRACMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	STD	STD	STD	STD
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	-	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	-	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08SG8-8, MC9S08SG4-8	MC9S08SG8-20, MC9S08SG4-20	MC9S08SG8-16, MC9S08SG4-16	MC9S08SG32-28, MC9S08SG16-28
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	-	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	-	STD	STD	STD
Term	ANSI Terminal	-	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08SG32-20, MC9S08SG16-20	MC9S08SG32-16, MC9S08SG16-16	MC9S08SF4-20	MC9S08SF4-16
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	-	-
AsynchroSerial	Asynchronous serial communication	STD	STD	-	-
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	-	-
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	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
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	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
FreescaleAnalogComp	Analog comparator on Freescale derivatives	PRO	PRO	PRO	PRO
FreescaleCAN	CAN communication for Freescale implementation	-	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MC9S08SG32-20, MC9S08SG16-20	MC9S08SG32-16, MC9S08SG16-16	MC9S08SF4-20	MC9S08SF4-16
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	STD	STD	-	-
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	STD	STD
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	-
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	-	-	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08SG32-20, MC9S08SG16-20	MC9S08SG32-16, MC9S08SG16-16	MC9S08SF4-20	MC9S08SF4-16
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	STD	STD	STD	STD
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRACMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRACMP_HCS08	Programmable Reference Analog Comparator	-	-	STD	STD
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	STD	STD
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	STD	STD	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	-	-
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	-	-
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08SG32-20, MC9S08SG16-20	MC9S08SG32-16, MC9S08SG16-16	MC9S08SF4-20	MC9S08SF4-16
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	-
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	-	-
SynchroSlave	Slave for synchronous serial communication	STD	STD	-	-
Term	ANSI Terminal	PRO	PRO	-	-
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08SE8-28, MC9S08SE4-28	MC9S08SE8-16, MC9S08SE4-16	MC9S08SC4-16	MC9S08RG60-44, MC9S08RG32-44
ADC	A/D converter	STD	STD	STD	-
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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	-	-	-	STD
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	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
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	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
FreescaleAnalogComp	Analog comparator on Freescale derivatives	-	-	-	PRO
FreescaleCAN	CAN communication for Freescale implementation	-	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	PRO



Component\CPU family	Component description	MC9S08SE8-28, MC9S08SE4-28	MC9S08SE8-16, MC9S08SE4-16	MC9S08SC4-16	MC9S08RG60-44, MC9S08RG32-44
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	-	-	-	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	-
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	STD
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	-	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08SE8-28, MC9S08SE4-28	MC9S08SE8-16, MC9S08SE4-16	MC9S08SC4-16	MC9S08RG60-44, MC9S08RG32-44
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRACMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRACMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	STD	STD	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	STD
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	-	-	-	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08SE8-28, MC9S08SE4-28	MC9S08SE8-16, MC9S08SE4-16	MC9S08SC4-16	MC9S08RG60-44, MC9S08RG32-44
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	-	-	-	-
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	-	-	-	STD
SynchroSlave	Slave for synchronous serial communication	-	-	-	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08RG60-32, MC9S08RG32-32	MC9S08RG60-28, MC9S08RG32-28	MC9S08RE16-48	MC9S08RE16-44, MC9S08RE32-44, MC9S08RE60-44, MC9S08RE8-44
ADC	A/D converter	-	-	-	-
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	STD	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
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	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
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	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
FreescaleAnalogComp	Analog comparator on Freescale derivatives CAN communication for Freescale implementation	PRO	-	PRO	PRO
FreescaleCAN		-	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	PRO	PRO	PRO	PRO



Component\CPU family	Component description	MC9S08RG60-32, MC9S08RG32-32	MC9S08RG60-28, MC9S08RG32-28	MC9S08RE16-48	MC9S08RE16-44, MC9S08RE32-44, MC9S08RE60-44, MC9S08RE8-44
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	STD	-	STD	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	STD	STD	STD	STD
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	-	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08RG60-32, MC9S08RG32-32	MC9S08RG60-28, MC9S08RG32-28	MC9S08RE16-48	MC9S08RE16-44, MC9S08RE32-44, MC9S08RE60-44, MC9S08RE8-44
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRAAMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRAAMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	-	-	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	STD	STD	STD	STD
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	-	-
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08RG60-32, MC9S08RG32-32	MC9S08RG60-28, MC9S08RG32-28	MC9S08RE16-48	MC9S08RE16-44, MC9S08RE32-44, MC9S08RE60-44, MC9S08RE8-44
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	-	-	-	-
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	-	-
SynchroSlave	Slave for synchronous serial communication	STD	STD	-	-
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08RE16-32, MC9S08RE32-32, MC9S08RE60-32, MC9S08RE8-32	MC9S08RE16-28, MC9S08RE32-28, MC9S08RE60-28, MC9S08RE8-28	MC9S08RD16-44, MC9S08RD32-44, MC9S08RD60-44, MC9S08RD8-44	MC9S08RD16-32, MC9S08RD32-32, MC9S08RD60-32, MC9S08RD8-32
ADC	A/D converter	-	-	-	-
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	STD	STD	STD	STD
Byte3IO	General Three-Bytes Input/Output	-	-	STD	-
Byte4IO	General Four-Bytes Input/Output	-	-	STD	-
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD
FreeCntr					
	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr16					
	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr32					
	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr8					
FreescaleAnalogComp	Analog comparator on Freescale derivatives	PRO	-	-	-
	CAN communication for Freescale implementation	-	-	-	-
FreescaleCAN					
FreescaleCMT	Freescale Carrier Modulator Timer	PRO	PRO	PRO	PRO

**Component\CPU family****Component description**

MC9S08RE16-32,
MC9S08RE32-32,
MC9S08RE60-32,
MC9S08RE8-32

MC9S08RE16-28,
MC9S08RE32-28,
MC9S08RE60-28,
MC9S08RE8-28

MC9S08RD16-44,
MC9S08RD32-44,
MC9S08RD60-44,
MC9S08RD8-44

MC9S08RD16-32,
MC9S08RD32-32,
MC9S08RD60-32,
MC9S08RD8-32

Component\CPU family	Component description	MC9S08RE16-32, MC9S08RE32-32, MC9S08RE60-32, MC9S08RE8-32	MC9S08RE16-28, MC9S08RE32-28, MC9S08RE60-28, MC9S08RE8-28	MC9S08RD16-44, MC9S08RD32-44, MC9S08RD60-44, MC9S08RD8-44	MC9S08RD16-32, MC9S08RD32-32, MC9S08RD60-32, MC9S08RD8-32
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	STD	-	-	-
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	STD	STD	STD	STD
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	-	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08RE16-32, MC9S08RE32-32, MC9S08RE60-32, MC9S08RE8-32	MC9S08RE16-28, MC9S08RE32-28, MC9S08RE60-28, MC9S08RE8-28	MC9S08RD16-44, MC9S08RD32-44, MC9S08RD60-44, MC9S08RD8-44	MC9S08RD16-32, MC9S08RD32-32, MC9S08RD60-32, MC9S08RD8-32
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRACMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRACMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	-	-	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	STD	STD	STD	STD
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08RE16-32, MC9S08RE32-32, MC9S08RE60-32, MC9S08RE8-32	MC9S08RE16-28, MC9S08RE32-28, MC9S08RE60-28, MC9S08RE8-28	MC9S08RD16-44, MC9S08RD32-44, MC9S08RD60-44, MC9S08RD8-44	MC9S08RD16-32, MC9S08RD32-32, MC9S08RD60-32, MC9S08RD8-32
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	-	-	-	-
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	-	-	-	-
SynchroSlave	Slave for synchronous serial communication	-	-	-	-
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08RD16-28, MC9S08RD32-28, MC9S08RD60-28, MC9S08RD8-28	MC9S08RC16-44, MC9S08RC32-44, MC9S08RC60-44, MC9S08RC8-44	MC9S08RC16-32, MC9S08RC32-32, MC9S08RC60-32, MC9S08RC8-32	MC9S08RC16-28, MC9S08RC32-28, MC9S08RC60-28, MC9S08RC8-28
ADC	A/D converter	-	-	-	-
AsynchroMaster	Asynchronous serial communication - master	PRO	-	-	-
AsynchroSerial	Asynchronous serial communication	STD	-	-	-
AsynchroSlave	Asynchronous serial communication - slave	PRO	-	-	-
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	STD	STD	STD	STD
Byte3IO	General Three-Bytes Input/Output	-	STD	-	-
Byte4IO	General Four-Bytes Input/Output	-	STD	-	-
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD
FreeCntr					
	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr16					
	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr32					
	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr8					
FreescaleAnalogComp	Analog comparator on Freescale derivatives	-	PRO	PRO	-
	CAN communication for Freescale implementation	-	-	-	-
FreescaleCAN					
FreescaleCMT	Freescale Carrier Modulator Timer	PRO	PRO	PRO	PRO

**Component\CPU family****Component description**

MC9S08RD16-28, MC9S08RD32-28, MC9S08RD60-28, MC9S08RD8-28	MC9S08RC16-44, MC9S08RC32-44, MC9S08RC60-44, MC9S08RC8-44	MC9S08RC16-32, MC9S08RC32-32, MC9S08RC60-32, MC9S08RC8-32	MC9S08RC16-28, MC9S08RC32-28, MC9S08RC60-28, MC9S08RC8-28
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Init_ACMP_COLDFIREV1	Freescle Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescle Analog Comparator (ACMP)	-	STD	STD	-
Init_ACMP_RS08	Freescle Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	STD	STD	STD	STD
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	-	STD	STD	-
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08RD16-28, MC9S08RD32-28, MC9S08RD60-28, MC9S08RD8-28	MC9S08RC16-44, MC9S08RC32-44, MC9S08RC60-44, MC9S08RC8-44	MC9S08RC16-32, MC9S08RC32-32, MC9S08RC60-32, MC9S08RC8-32	MC9S08RC16-28, MC9S08RC32-28, MC9S08RC60-28, MC9S08RC8-28
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRAAMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRAAMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	-	-	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	STD	STD	STD	STD
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	-	-	-
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08RD16-28, MC9S08RD32-28, MC9S08RD60-28, MC9S08RD8-28	MC9S08RC16-44, MC9S08RC32-44, MC9S08RC60-44, MC9S08RC8-44	MC9S08RC16-32, MC9S08RC32-32, MC9S08RC60-32, MC9S08RC8-32	MC9S08RC16-28, MC9S08RC32-28, MC9S08RC60-28, MC9S08RC8-28
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	-	-	-	-
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	-	-	-	-
SynchroSlave	Slave for synchronous serial communication	-	-	-	-
Term	ANSI Terminal	PRO	-	-	-
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08QG8-8, MC9S08QG4-8	MC9S08QG8-24, MC9S08QG4-24	MC9S08QG8_16_ QFN, MC9S08QG4_16_ QFN	MC9S08QG8-16, MC9S08QG4-16
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	-	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	-	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	-	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD
FreeCntr					
	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr16					
	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr32					
	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr8					
FreescaleAnalogComp	Analog comparator on Freescale derivates CAN communication for Freescale implementation	PRO	PRO	PRO	PRO
FreescaleCAN		-	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family

Component description

MC9S08QG8-8,
MC9S08QG4-8

MC9S08QG8-24,
MC9S08QG4-24

MC9S08QG8_16_
QFN,
MC9S08QG4_16_
QFN

MC9S08QG8-16,
MC9S08QG4-16

Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	STD	STD	STD	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08QG8-8, MC9S08QG4-8	MC9S08QG8-24, MC9S08QG4-24	MC9S08QG8_16_ QFN, MC9S08QG4_16_ QFN	MC9S08QG8-16, MC9S08QG4-16
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	STD	STD	STD	STD
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRAAMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRAAMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	-	-	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	STD	STD	STD	STD
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	-	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	-	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08QG8-8, MC9S08QG4-8	MC9S08QG8-24, MC9S08QG4-24	MC9S08QG8_16_ QFN, MC9S08QG4_16_ QFN	MC9S08QG8-16, MC9S08QG4-16
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	-	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	-	STD	STD	STD
Term	ANSI Terminal	-	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08QE8-32, MC9S08QE4-32	MC9S08QE8-28, MC9S08QE4-28	MC9S08QE8-20, MC9S08QE4-20	MC9S08QE8-16, MC9S08QE4-16
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	STD	STD	-	-
Byte3IO	General Three-Bytes Input/Output	-	-	-	-
Byte4IO	General Four-Bytes Input/Output	-	-	-	-
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	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
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	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
FreescaleAnalogComp	Analog comparator on Freescale derivates	PRO	PRO	PRO	PRO
FreescaleCAN	CAN communication for Freescale implementation	-	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MC9S08QE8-32, MC9S08QE4-32	MC9S08QE8-28, MC9S08QE4-28	MC9S08QE8-20, MC9S08QE4-20	MC9S08QE8-16, MC9S08QE4-16
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	STD	STD	STD	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08QE8-32, MC9S08QE4-32	MC9S08QE8-28, MC9S08QE4-28	MC9S08QE8-20, MC9S08QE4-20	MC9S08QE8-16, MC9S08QE4-16
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRAAMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRAAMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	STD	STD	STD	STD
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08QE8-32, MC9S08QE4-32	MC9S08QE8-28, MC9S08QE4-28	MC9S08QE8-20, MC9S08QE4-20	MC9S08QE8-16, MC9S08QE4-16
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08QE64-32	MC9S08QE32-48, MC9S08QE16-48	MC9S08QE32-44, MC9S08QE16-44	MC9S08QE32-32, MC9S08QE16-32
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	STD	STD	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
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD
FreeCntr					
	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr16					
	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr32					
	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr8					
FreescaleAnalogComp	Analog comparator on Freescale derivatives	PRO	PRO	PRO	PRO
	CAN communication for Freescale implementation	-	-	-	-
FreescaleCAN					
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MC9S08QE64-32	MC9S08QE32-48, MC9S08QE16-48	MC9S08QE32-44, MC9S08QE16-44	MC9S08QE32-32, MC9S08QE16-32
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	STD	STD	STD	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08QE64-32	MC9S08QE32-48, MC9S08QE16-48	MC9S08QE32-44, MC9S08QE16-44	MC9S08QE32-32, MC9S08QE16-32
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRAAMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRAAMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	STD	STD	STD	STD
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08QE64-32	MC9S08QE32-48, MC9S08QE16-48	MC9S08QE32-44, MC9S08QE16-44	MC9S08QE32-32, MC9S08QE16-32
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08QE32-28, MC9S08QE16-28	MC9S08QE128-80, MC9S08QE96-80	MC9S08QE128-64, MC9S08QE64-64, MC9S08QE96-64	MC9S08QE128-48, MC9S08QE64-48, MC9S08QE96-48
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	STD	STD	STD	STD
Byte3IO	General Three-Bytes Input/Output	-	STD	STD	STD
Byte4IO	General Four-Bytes Input/Output	-	STD	STD	STD
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	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
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	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
FreescaleAnalogComp	Analog comparator on Freescale derivatives CAN communication for Freescale implementation	PRO	PRO	PRO	PRO
FreescaleCAN		-	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-

**Component\CPU family****Component description****MC9S08QE32-28,
MC9S08QE16-28****MC9S08QE128-80,
MC9S08QE96-80****MC9S08QE128-64,
MC9S08QE64-64,
MC9S08QE96-64****MC9S08QE128-48,
MC9S08QE64-48,
MC9S08QE96-48**

Component\CPU family	Component description	MC9S08QE32-28, MC9S08QE16-28	MC9S08QE128-80, MC9S08QE96-80	MC9S08QE128-64, MC9S08QE64-64, MC9S08QE96-64	MC9S08QE128-48, MC9S08QE64-48, MC9S08QE96-48
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	STD	STD	STD	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08QE32-28, MC9S08QE16-28	MC9S08QE128-80, MC9S08QE96-80	MC9S08QE128-64, MC9S08QE64-64, MC9S08QE96-64	MC9S08QE128-48, MC9S08QE64-48, MC9S08QE96-48
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRAAMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRAAMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	STD	STD	STD	STD
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08QE32-28, MC9S08QE16-28	MC9S08QE128-80, MC9S08QE96-80	MC9S08QE128-64, MC9S08QE64-64, MC9S08QE96-64	MC9S08QE128-48, MC9S08QE64-48, MC9S08QE96-48
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08QE128-44, MC9S08QE64-44, MC9S08QE96-44	MC9S08QD4-8, MC9S08QD2-8	MC9S08QB8-28, MC9S08QB4-28	MC9S08QB8-24, MC9S08QB4-24
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	-	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	-	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	-	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.				
BasicProperties		free	free	free	free
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
	Time measurement based on counter value (suitable for short time periods)				
FreeCntr		STD	STD	STD	STD
	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).				
FreeCntr16		STD	STD	STD	STD
	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).				
FreeCntr32		STD	STD	STD	STD
	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).				
FreeCntr8		STD	STD	STD	STD
FreescaleAnalogComp	Analog comparator on Freescale derivatives	PRO	-	PRO	PRO
	CAN communication for Freescale implementation	-	-	-	-
FreescaleCAN		-	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MC9S08QE128-44, MC9S08QE64-44, MC9S08QE96-44	MC9S08QD4-8, MC9S08QD2-8	MC9S08QB8-28, MC9S08QB4-28	MC9S08QB8-24, MC9S08QB4-24
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	STD	-	STD	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	-	-	-
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08QE128-44, MC9S08QE64-44, MC9S08QE96-44	MC9S08QD4-8, MC9S08QD2-8	MC9S08QB8-28, MC9S08QB4-28	MC9S08QB8-24, MC9S08QB4-24
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	STD	STD
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRAAMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRAAMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	STD	-	STD	STD
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	STD	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	-	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	-	-	-
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08QE128-44, MC9S08QE64-44, MC9S08QE96-44	MC9S08QD4-8, MC9S08QD2-8	MC9S08QB8-28, MC9S08QB4-28	MC9S08QB8-24, MC9S08QB4-24
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	-	-	-
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	-	-	-
SynchroSlave	Slave for synchronous serial communication	STD	-	-	-
Term	ANSI Terminal	PRO	-	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08QB8-16, MC9S08QB4-16	MC9S08QA4-8, MC9S08QA2-8	MC9S08MP16-48	MC9S08MP16_32_L QFP
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	-	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	-	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	-	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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	-	-	STD	-
ByteIO	General Byte Input/Output (8 bits)	STD	-	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD
FreeCntr					
	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr16					
	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr32					
	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr8					
FreescaleAnalogComp	Analog comparator on Freescale derivatives	PRO	PRO	PRO	PRO
	CAN communication for Freescale implementation	-	-	-	-
FreescaleCAN					
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MC9S08QB8-16, MC9S08QB4-16	MC9S08QA4-8, MC9S08QA2-8	MC9S08MP16-48	MC9S08MP16_32_L QFP
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	STD	STD	-	-
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	STD	STD
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	STD	STD
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	STD	STD
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	-	-	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	-	-
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08QB8-16, MC9S08QB4-16	MC9S08QA4-8, MC9S08QA2-8	MC9S08MP16-48	MC9S08MP16_32_L QFP
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	STD	STD	STD	STD
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	STD	STD
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	STD	STD
Init_PRACMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRACMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	STD	-	STD	STD
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	STD	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	-	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	-	-	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	-	-
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08QB8-16, MC9S08QB4-16	MC9S08QA4-8, MC9S08QA2-8	MC9S08MP16-48	MC9S08MP16_32_L QFP
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	-	-	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	PRO	PRO
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	-	-	STD	STD
SynchroSlave	Slave for synchronous serial communication	-	-	STD	STD
Term	ANSI Terminal	PRO	-	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08MP16-28	MC9S08MP12-28	MC9S08LL8-48, MC9S08LL16-48	MC9S08LL64-80, MC9S08LL36-80
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	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
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	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
FreescaleAnalogComp	Analog comparator on Freescale derivatives	PRO	PRO	PRO	PRO
FreescaleCAN	CAN communication for Freescale implementation	-	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MC9S08MP16-28	MC9S08MP12-28	MC9S08LL8-48, MC9S08LL16-48	MC9S08LL64-80, MC9S08LL36-80
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	-	-	STD	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	STD	STD	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	STD	STD	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	STD	STD	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	-	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	-	-	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08MP16-28	MC9S08MP12-28	MC9S08LL8-48, MC9S08LL16-48	MC9S08LL64-80, MC9S08LL36-80
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	STD	STD
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	STD	STD	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	STD	STD	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	STD	-	-	-
Init_PRAAMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRAAMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	STD	STD	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	STD	STD
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	-	-	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08MP16-28	MC9S08MP12-28	MC9S08LL8-48, MC9S08LL16-48	MC9S08LL64-80, MC9S08LL36-80
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	STD
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	-	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	PRO	PRO
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	PRO	PRO	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08LL36-64	MC9S08LL16-64	MC9S08LH64-80, MC9S08LH36-80	MC9S08LH36-64
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	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
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	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
FreescaleAnalogComp	Analog comparator on Freescale derivatives CAN communication for Freescale implementation	PRO	PRO	PRO	PRO
FreescaleCAN		-	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family

Component description

MC9S08LL36-64

MC9S08LL16-64

MC9S08LH64-80,
MC9S08LH36-80

MC9S08LH36-64

Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	STD	STD	STD	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08LL36-64	MC9S08LL16-64	MC9S08LH64-80, MC9S08LH36-80	MC9S08LH36-64
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	STD	STD	STD	STD
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRACMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRACMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	-	-	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	STD	STD	STD	STD
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08LL36-64	MC9S08LL16-64	MC9S08LH64-80, MC9S08LH36-80	MC9S08LH36-64
Init_VREF_HCS08	Voltage Reference Init Bean	STD	-	STD	STD
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	PRO	PRO	PRO	PRO
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08LG32-80	MC9S08LG32-64, MC9S08LG16-64	MC9S08LG32-48, MC9S08LG16-48	MC9S08LC60-80, MC9S08LC36-80
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.				
BasicProperties		free	free	free	free
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	STD	STD	STD	STD
Byte3IO	General Three-Bytes Input/Output	STD	STD	STD	-
Byte4IO	General Four-Bytes Input/Output	STD	STD	STD	-
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
	Time measurement based on counter value (suitable for short time periods)				
FreeCntr		STD	STD	STD	STD
	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).				
FreeCntr16		STD	STD	STD	STD
	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).				
FreeCntr32		STD	STD	STD	STD
	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).				
FreeCntr8		STD	STD	STD	STD
FreescaleAnalogComp	Analog comparator on Freescale derivates	-	-	-	PRO
	CAN communication for Freescale implementation	-	-	-	-
FreescaleCAN		-	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MC9S08LG32-80	MC9S08LG32-64, MC9S08LG16-64	MC9S08LG32-48, MC9S08LG16-48	MC9S08LC60-80, MC9S08LC36-80
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	-	-	-	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08LG32-80	MC9S08LG32-64, MC9S08LG16-64	MC9S08LG32-48, MC9S08LG16-48	MC9S08LC60-80, MC9S08LC36-80
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	STD	STD	STD	STD
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	STD	STD	STD	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRAAMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRAAMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	STD	STD	STD	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	STD
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08LG32-80	MC9S08LG32-64, MC9S08LG16-64	MC9S08LG32-48, MC9S08LG16-48	MC9S08LC60-80, MC9S08LC36-80
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	PRO	PRO	PRO	PRO
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08LC36-64	MC9S08JS16-24, MC9S08JS16L-24, MC9S08JS8-24, MC9S08JS8L-24	MC9S08JS16-20, MC9S08JS16L-20, MC9S08JS8-20, MC9S08JS8L-20	MC9S08JR12-48
ADC	A/D converter	STD	-	-	-
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	-
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	-
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	-
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	-	-	-	STD
Byte3IO	General Three-Bytes Input/Output	-	-	-	STD
Byte4IO	General Four-Bytes Input/Output	-	-	-	STD
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD	STD	STD	-
EventCntr32	Event counter 32-bit	STD	STD	STD	-
EventCntr8	Event counter 8-bit	STD	STD	STD	-
ExternalFile	External Binary File Converter	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	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
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	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
FreescaleAnalogComp	Analog comparator on Freescale derivates CAN communication for Freescale implementation	PRO	-	-	-
FreescaleCAN		-	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MC9S08LC36-64	MC9S08JS16-24, MC9S08JS16L-24, MC9S08JS8-24, MC9S08JS8L-24	MC9S08JS16-20, MC9S08JS16L-20, MC9S08JS8-20, MC9S08JS8L-20	MC9S08JR12-48
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	STD	-	-	-
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	-	-	-
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	STD
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	-	-	-
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08LC36-64	MC9S08JS16-24, MC9S08JS16L-24, MC9S08JS8-24, MC9S08JS8L-24	MC9S08JS16-20, MC9S08JS16L-20, MC9S08JS8-20, MC9S08JS8L-20	MC9S08JR12-48
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	STD	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	STD	STD	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRAAMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRAAMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	-	STD	STD	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	STD	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	-
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	STD	-
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	STD	STD	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08LC36-64	MC9S08JS16-24, MC9S08JS16L-24, MC9S08JS8-24, MC9S08JS8L-24	MC9S08JS16-20, MC9S08JS16L-20, MC9S08JS8-20, MC9S08JS8L-20	MC9S08JR12-48
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	-	-	-
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	PRO	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	-
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	-
Term	ANSI Terminal	PRO	PRO	PRO	-
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08JR12-44	MC9S08JR12-32	MC9S08JM60-64, MC9S08JM32-64	MC9S08JM60-48, MC9S08JM32-48
ADC	A/D converter	-	-	STD	STD
AsynchroMaster	Asynchronous serial communication - master	-	-	PRO	PRO
AsynchroSerial	Asynchronous serial communication	-	-	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	-	-	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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	-	STD	-
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	-	-	STD	STD
EventCntr32	Event counter 32-bit	-	-	STD	STD
EventCntr8	Event counter 8-bit	-	-	STD	STD
ExternalFile	External Binary File Converter	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	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
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	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
FreescaleAnalogComp	Analog comparator on Freescale derivates CAN communication for Freescale	-	-	PRO	PRO
FreescaleCAN	implementation	-	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MC9S08JR12-44	MC9S08JR12-32	MC9S08JM60-64, MC9S08JM32-64	MC9S08JM60-48, MC9S08JM32-48
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	-	-	STD	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	-	-	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	STD	STD	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	-	-	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08JR12-44	MC9S08JR12-32	MC9S08JM60-64, MC9S08JM32-64	MC9S08JM60-48, MC9S08JM32-48
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRAAMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRAAMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	-	-	STD	STD
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	-	-	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	-	-	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	STD	STD
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08JR12-44	MC9S08JR12-32	MC9S08JM60-64, MC9S08JM32-64	MC9S08JM60-48, MC9S08JM32-48
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	-	-	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	-	-	STD	STD
SynchroSlave	Slave for synchronous serial communication	-	-	STD	STD
Term	ANSI Terminal	-	-	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08JM60-44, MC9S08JM32-44	MC9S08JM16T-32	MC9S08JM16-48, MC9S08JM8-48	MC9S08JM16-44, MC9S08JM8-44
ADC	A/D converter	STD	-	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	-	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	-	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	-	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	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
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	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
FreescaleAnalogComp	Analog comparator on Freescale derivates CAN communication for Freescale implementation	PRO	PRO	PRO	PRO
FreescaleCAN		-	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family

Component description

MC9S08JM60-44,
MC9S08JM32-44

MC9S08JM16T-32

MC9S08JM16-48,
MC9S08JM8-48

MC9S08JM16-44,
MC9S08JM8-44

Component\CPU family	Component description	MC9S08JM60-44, MC9S08JM32-44	MC9S08JM16T-32	MC9S08JM16-48, MC9S08JM8-48	MC9S08JM16-44, MC9S08JM8-44
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	STD	STD	STD	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	-	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	-	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08JM60-44, MC9S08JM32-44	MC9S08JM16T-32	MC9S08JM16-48, MC9S08JM8-48	MC9S08JM16-44, MC9S08JM8-44
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRAAMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRAAMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	STD	STD	STD	STD
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	-	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	STD	STD	STD	STD
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08JM60-44, MC9S08JM32-44	MC9S08JM16T-32	MC9S08JM16-48, MC9S08JM8-48	MC9S08JM16-44, MC9S08JM8-44
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	-	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	-	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08JM16-32, MC9S08JM8-32	MC9S08GT60A-48, MC9S08GT32A-48	MC9S08GT60A-44, MC9S08GT32A-44	MC9S08GT60-48, MC9S08GT16-48, MC9S08GT32-48
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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	-	-	-	-
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD
FreeCntr					
	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr16					
	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr32					
	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr8					
FreescaleAnalogComp	Analog comparator on Freescale derivatives	PRO	-	-	-
	CAN communication for Freescale implementation	-	-	-	-
FreescaleCAN					
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-

**Component\CPU family****Component description****MC9S08JM16-32,
MC9S08JM8-32****MC9S08GT60A-48,
MC9S08GT32A-48****MC9S08GT60A-44,
MC9S08GT32A-44****MC9S08GT60-48,
MC9S08GT16-48,
MC9S08GT32-48**

Init_ACMP_COLDFIREV1	Freescle Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescle Analog Comparator (ACMP)	STD	-	-	-
Init_ACMP_RS08	Freescle Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08JM16-32, MC9S08JM8-32	MC9S08GT60A-48, MC9S08GT32A-48	MC9S08GT60A-44, MC9S08GT32A-44	MC9S08GT60-48, MC9S08GT16-48, MC9S08GT32-48
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRACMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRACMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	STD	-	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	STD	STD	STD
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	STD	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08JM16-32, MC9S08JM8-32	MC9S08GT60A-48, MC9S08GT32A-48	MC9S08GT60A-44, MC9S08GT32A-44	MC9S08GT60-48, MC9S08GT16-48, MC9S08GT32-48
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08GT60-44, MC9S08GT16-44, MC9S08GT32-44	MC9S08GT60-42, MC9S08GT16-42, MC9S08GT32-42	MC9S08GT16A-48, MC9S08GT8A-48	MC9S08GT16A-44, MC9S08GT8A-44
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	STD	STD	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
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	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
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	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
FreescaleAnalogComp	Analog comparator on Freescale derivatives CAN communication for Freescale	-	-	-	-
FreescaleCAN	implementation	-	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MC9S08GT60-44, MC9S08GT16-44, MC9S08GT32-44	MC9S08GT60-42, MC9S08GT16-42, MC9S08GT32-42	MC9S08GT16A-48, MC9S08GT8A-48	MC9S08GT16A-44, MC9S08GT8A-44
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08GT60-44, MC9S08GT16-44, MC9S08GT32-44	MC9S08GT60-42, MC9S08GT16-42, MC9S08GT32-42	MC9S08GT16A-48, MC9S08GT8A-48	MC9S08GT16A-44, MC9S08GT8A-44
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRACMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRACMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	-	-	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	STD	STD	STD	STD
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08GT60-44, MC9S08GT16-44, MC9S08GT32-44	MC9S08GT60-42, MC9S08GT16-42, MC9S08GT32-42	MC9S08GT16A-48, MC9S08GT8A-48	MC9S08GT16A-44, MC9S08GT8A-44
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08GT16A-42, MC9S08GT8A-42	MC9S08GT16A-32, MC9S08GT8A-32	MC9S08GB60A, MC9S08GB32A	MC9S08GB60, MC9S08GB32
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	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
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	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
FreescaleAnalogComp	Analog comparator on Freescale derivates CAN communication for Freescale	-	-	-	-
FreescaleCAN	implementation	-	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MC9S08GT16A-42, MC9S08GT8A-42	MC9S08GT16A-32, MC9S08GT8A-32	MC9S08GB60A, MC9S08GB32A	MC9S08GB60, MC9S08GB32
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08GT16A-42, MC9S08GT8A-42	MC9S08GT16A-32, MC9S08GT8A-32	MC9S08GB60A, MC9S08GB32A	MC9S08GB60, MC9S08GB32
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRACMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRACMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	-	-	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	STD	STD	STD	STD
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08GT16A-42, MC9S08GT8A-42	MC9S08GT16A-32, MC9S08GT8A-32	MC9S08GB60A, MC9S08GB32A	MC9S08GB60, MC9S08GB32
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08FL16_32_ SDIP, MC9S08FL8_32_S DIP	MC9S08FL16_32_ LQFP, MC9S08FL8_32_L QFP	MC9S08EN32-48, MC9S08EN16-48	MC9S08EN32-32, MC9S08EN16-32
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	STD	STD	STD	STD
Byte3IO	General Three-Bytes Input/Output	-	-	STD	-
Byte4IO	General Four-Bytes Input/Output	-	-	STD	-
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD	STD	STD	-
EventCntr32	Event counter 32-bit	STD	STD	STD	-
EventCntr8	Event counter 8-bit	STD	STD	STD	-
ExternalFile	External Binary File Converter	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD
FreeCntr					
	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr16					
	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr32					
	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr8					
FreescaleAnalogComp	Analog comparator on Freescale derivatives	-	-	PRO	PRO
	CAN communication for Freescale implementation	-	-	-	-
FreescaleCAN					
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MC9S08FL16_32_ SDIP, MC9S08FL8_32_S DIP	MC9S08FL16_32_ LQFP, MC9S08FL8_32_L QFP	MC9S08EN32-48, MC9S08EN16-48	MC9S08EN32-32, MC9S08EN16-32
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	-	-	STD	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	-	-	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08FL16_32_ SDIP, MC9S08FL8_32_S DIP	MC9S08FL16_32_ LQFP, MC9S08FL8_32_L QFP	MC9S08EN32-48, MC9S08EN16-48	MC9S08EN32-32, MC9S08EN16-32
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	STD	STD	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRACMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRACMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	-	-	STD	STD
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	-	-	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08FL16_32_ SDIP, MC9S08FL8_32_S DIP	MC9S08FL16_32_ LQFP, MC9S08FL8_32_L QFP	MC9S08EN32-48, MC9S08EN16-48	MC9S08EN32-32, MC9S08EN16-32
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	-	-	-	-
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	-	-	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	-	-	STD	STD
SynchroSlave	Slave for synchronous serial communication	-	-	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08EL32-28, MC9S08EL16-28	MC9S08EL32-20, MC9S08EL16-20	MC9S08DZ60-64, MC9S08DZ32-64, MC9S08DZ48-64	MC9S08DZ60-48, MC9S08DZ16-48, MC9S08DZ32-48, MC9S08DZ48-48
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	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
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	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
FreescaleAnalogComp	Analog comparator on Freescale derivatives CAN communication for Freescale	PRO	PRO	PRO	PRO
FreescaleCAN	implementation	-	-	PRO	PRO
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MC9S08EL32-28, MC9S08EL16-28	MC9S08EL32-20, MC9S08EL16-20	MC9S08DZ60-64, MC9S08DZ32-64, MC9S08DZ48-64	MC9S08DZ60-48, MC9S08DZ16-48, MC9S08DZ32-48, MC9S08DZ48-48
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	STD	STD	STD	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	-	-	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08EL32-28, MC9S08EL16-28	MC9S08EL32-20, MC9S08EL16-20	MC9S08DZ60-64, MC9S08DZ32-64, MC9S08DZ48-64	MC9S08DZ60-48, MC9S08DZ16-48, MC9S08DZ32-48, MC9S08DZ48-48
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	STD	STD
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRACMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRACMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	STD	STD	STD	STD
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	STD	STD	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08EL32-28, MC9S08EL16-28	MC9S08EL32-20, MC9S08EL16-20	MC9S08DZ60-64, MC9S08DZ32-64, MC9S08DZ48-64	MC9S08DZ60-48, MC9S08DZ16-48, MC9S08DZ32-48, MC9S08DZ48-48
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	STD	STD	STD	STD
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08DZ60-32, MC9S08DZ16-32, MC9S08DZ32-32, MC9S08DZ48-32	MC9S08DZ128-64, MC9S08DZ96-64	MC9S08DZ128-48, MC9S08DZ96-48	MC9S08DZ128-100, MC9S08DZ96-100
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	STD	STD	STD	STD
Byte3IO	General Three-Bytes Input/Output	-	STD	STD	STD
Byte4IO	General Four-Bytes Input/Output	-	STD	STD	STD
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	-	STD	STD	STD
EventCntr32	Event counter 32-bit	-	STD	STD	STD
EventCntr8	Event counter 8-bit	-	STD	STD	STD
ExternalFile	External Binary File Converter	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD
FreeCntr					
	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr16					
	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr32					
	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr8					
FreescaleAnalogComp	Analog comparator on Freescale derivatives	PRO	PRO	PRO	PRO
	CAN communication for Freescale implementation	PRO	PRO	PRO	PRO
FreescaleCAN					
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-

**Component\CPU family****Component description**

**MC9S08DZ60-32,
MC9S08DZ16-32,
MC9S08DZ32-32,
MC9S08DZ48-32**

**MC9S08DZ128-64,
MC9S08DZ96-64**

**MC9S08DZ128-48,
MC9S08DZ96-48**

**MC9S08DZ128-
100,
MC9S08DZ96-100**

Component\CPU family	Component description	MC9S08DZ60-32, MC9S08DZ16-32, MC9S08DZ32-32, MC9S08DZ48-32	MC9S08DZ128-64, MC9S08DZ96-64	MC9S08DZ128-48, MC9S08DZ96-48	MC9S08DZ128- 100, MC9S08DZ96-100
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	STD	STD	STD	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08DZ60-32, MC9S08DZ16-32, MC9S08DZ32-32, MC9S08DZ48-32	MC9S08DZ128-64, MC9S08DZ96-64	MC9S08DZ128-48, MC9S08DZ96-48	MC9S08DZ128-100, MC9S08DZ96-100
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	STD	STD	STD	STD
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRAAMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRAAMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	STD	STD	STD	STD
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08DZ60-32, MC9S08DZ16-32, MC9S08DZ32-32, MC9S08DZ48-32	MC9S08DZ128-64, MC9S08DZ96-64	MC9S08DZ128-48, MC9S08DZ96-48	MC9S08DZ128-100, MC9S08DZ96-100
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	STD	STD	STD	STD
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08DV60-64, MC9S08DV32-64, MC9S08DV48-64	MC9S08DV60-48, MC9S08DV32-48, MC9S08DV48-48	MC9S08DV60-32, MC9S08DV32-32, MC9S08DV48-32	MC9S08DV16-48
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	STD	STD	STD	STD
Byte3IO	General Three-Bytes Input/Output	STD	STD	-	STD
Byte4IO	General Four-Bytes Input/Output	STD	STD	-	STD
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD	STD	-	STD
EventCntr32	Event counter 32-bit	STD	STD	-	STD
EventCntr8	Event counter 8-bit	STD	STD	-	STD
ExternalFile	External Binary File Converter	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	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
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	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
FreescaleAnalogComp	Analog comparator on Freescale derivatives CAN communication for Freescale	PRO	PRO	PRO	PRO
FreescaleCAN	implementation	PRO	PRO	PRO	PRO
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MC9S08DV60-64, MC9S08DV32-64, MC9S08DV48-64	MC9S08DV60-48, MC9S08DV32-48, MC9S08DV48-48	MC9S08DV60-32, MC9S08DV32-32, MC9S08DV48-32	MC9S08DV16-48
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	STD	STD	STD	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08DV60-64, MC9S08DV32-64, MC9S08DV48-64	MC9S08DV60-48, MC9S08DV32-48, MC9S08DV48-48	MC9S08DV60-32, MC9S08DV32-32, MC9S08DV48-32	MC9S08DV16-48
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	STD	STD	STD	STD
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRACMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRACMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	STD	STD	STD	STD
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08DV60-64, MC9S08DV32-64, MC9S08DV48-64	MC9S08DV60-48, MC9S08DV32-48, MC9S08DV48-48	MC9S08DV60-32, MC9S08DV32-32, MC9S08DV48-32	MC9S08DV16-48
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08DV16-32	MC9S08DV128-64, MC9S08DV96-64	MC9S08DV128-48, MC9S08DV96-48	MC9S08DV128-100, MC9S08DV96-100
ADC	A/D converter	STD		STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.				
BasicProperties		free	free	free	free
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	STD	STD	STD	STD
Byte3IO	General Three-Bytes Input/Output	-	STD	STD	STD
Byte4IO	General Four-Bytes Input/Output	-	STD	STD	STD
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	-	STD	STD	STD
EventCntr32	Event counter 32-bit	-	STD	STD	STD
EventCntr8	Event counter 8-bit	-	STD	STD	STD
ExternalFile	External Binary File Converter	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
	Time measurement based on counter value (suitable for short time periods)				
FreeCntr		STD	STD	STD	STD
	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).				
FreeCntr16		STD	STD	STD	STD
	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).				
FreeCntr32		STD	STD	STD	STD
	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).				
FreeCntr8		STD	STD	STD	STD
FreescaleAnalogComp	Analog comparator on Freescale derivates	PRO	PRO	PRO	PRO
	CAN communication for Freescale implementation				
FreescaleCAN		PRO	PRO	PRO	PRO
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MC9S08DV16-32	MC9S08DV128-64, MC9S08DV96-64	MC9S08DV128-48, MC9S08DV96-48	MC9S08DV128-100, MC9S08DV96-100
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	STD	STD	STD	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08DV16-32	MC9S08DV128-64, MC9S08DV96-64	MC9S08DV128-48, MC9S08DV96-48	MC9S08DV128-100, MC9S08DV96-100
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	STD	STD	STD	STD
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRACMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRACMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	STD	STD	STD	STD
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08DV16-32	MC9S08DV128-64, MC9S08DV96-64	MC9S08DV128-48, MC9S08DV96-48	MC9S08DV128-100, MC9S08DV96-100
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08DN60-64, MC9S08DN32-64, MC9S08DN48-64	MC9S08DN60-48, MC9S08DN16-48, MC9S08DN32-48, MC9S08DN48-48	MC9S08DN60-32, MC9S08DN16-32, MC9S08DN32-32, MC9S08DN48-32	MC9S08DE60-64, MC9S08DE32-64
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	STD	STD	STD	STD
Byte3IO	General Three-Bytes Input/Output	STD	STD	-	STD
Byte4IO	General Four-Bytes Input/Output	STD	STD	-	STD
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD	STD	-	STD
EventCntr32	Event counter 32-bit	STD	STD	-	STD
EventCntr8	Event counter 8-bit	STD	STD	-	STD
ExternalFile	External Binary File Converter	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD
FreeCntr					
	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr16					
	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr32					
	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr8					
FreescaleAnalogComp	Analog comparator on Freescale derivatives	PRO	PRO	PRO	PRO
	CAN communication for Freescale implementation	-	-	-	PRO
FreescaleCAN					
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-

**Component\CPU family****Component description**

**MC9S08DN60-64,
MC9S08DN32-64,
MC9S08DN48-64**

**MC9S08DN60-48,
MC9S08DN16-48,
MC9S08DN32-48,
MC9S08DN48-48**

**MC9S08DN60-32,
MC9S08DN16-32,
MC9S08DN32-32,
MC9S08DN48-32**

**MC9S08DE60-64,
MC9S08DE32-64**

Component\CPU family	Component description	MC9S08DN60-64, MC9S08DN32-64, MC9S08DN48-64	MC9S08DN60-48, MC9S08DN16-48, MC9S08DN32-48, MC9S08DN48-48	MC9S08DN60-32, MC9S08DN16-32, MC9S08DN32-32, MC9S08DN48-32	MC9S08DE60-64, MC9S08DE32-64
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	STD	STD	STD	STD
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08DN60-64, MC9S08DN32-64, MC9S08DN48-64	MC9S08DN60-48, MC9S08DN16-48, MC9S08DN32-48, MC9S08DN48-48	MC9S08DN60-32, MC9S08DN16-32, MC9S08DN32-32, MC9S08DN48-32	MC9S08DE60-64, MC9S08DE32-64
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	STD
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRAAMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRAAMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	STD	STD	STD	STD
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08DN60-64, MC9S08DN32-64, MC9S08DN48-64	MC9S08DN60-48, MC9S08DN16-48, MC9S08DN32-48, MC9S08DN48-48	MC9S08DN60-32, MC9S08DN16-32, MC9S08DN32-32, MC9S08DN48-32	MC9S08DE60-64, MC9S08DE32-64
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	STD	STD	STD	STD
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08AW60-64, MC9S08AW16-64, MC9S08AW32-64, MC9S08AW48-64	MC9S08AW60-48, MC9S08AW16-48, MC9S08AW32-48, MC9S08AW48-48	MC9S08AW60-44, MC9S08AW16-44, MC9S08AW32-44, MC9S08AW48-44	MC9S08AW16A-48, MC9S08AW8A-48
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	STD	-	-	-
Byte3IO	General Three-Bytes Input/Output	STD	-	-	-
Byte4IO	General Four-Bytes Input/Output	STD	-	-	-
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD	-	-	STD
EventCntr32	Event counter 32-bit	STD	-	-	STD
EventCntr8	Event counter 8-bit	STD	-	-	STD
ExternalFile	External Binary File Converter	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD
FreeCntr					
	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr16					
	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr32					
	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr8					
FreescaleAnalogComp	Analog comparator on Freescale derivatives	-	-	-	-
	CAN communication for Freescale implementation	-	-	-	-
FreescaleCAN					
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-

**Component\CPU family****Component description**

MC9S08AW60-64, MC9S08AW16-64, MC9S08AW32-64, MC9S08AW48-64	MC9S08AW60-48, MC9S08AW16-48, MC9S08AW32-48, MC9S08AW48-48	MC9S08AW60-44, MC9S08AW16-44, MC9S08AW32-44, MC9S08AW48-44	MC9S08AW16A-48, MC9S08AW8A-48
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Init_ACMP_COLDFIREV1	Freescle Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescle Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_RS08	Freescle Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08AW60-64, MC9S08AW16-64, MC9S08AW32-64, MC9S08AW48-64	MC9S08AW60-48, MC9S08AW16-48, MC9S08AW32-48, MC9S08AW48-48	MC9S08AW60-44, MC9S08AW16-44, MC9S08AW32-44, MC9S08AW48-44	MC9S08AW16A-48, MC9S08AW8A-48
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRACMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRACMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	-	-	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	STD	STD	STD	STD
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08AW60-64, MC9S08AW16-64, MC9S08AW32-64, MC9S08AW48-64	MC9S08AW60-48, MC9S08AW16-48, MC9S08AW32-48, MC9S08AW48-48	MC9S08AW60-44, MC9S08AW16-44, MC9S08AW32-44, MC9S08AW48-44	MC9S08AW16A-48, MC9S08AW8A-48
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08AW16A-44, MC9S08AW8A-44	MC9S08AW16A-32, MC9S08AW8A-32	MC9S08AC60-64, MC9S08AC32-64, MC9S08AC48-64	MC9S08AC60-48, MC9S08AC32-48, MC9S08AC48-48
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	-	-	STD	-
Byte3IO	General Three-Bytes Input/Output	-	-	STD	-
Byte4IO	General Four-Bytes Input/Output	-	-	STD	-
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD
FreeCntr					
	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr16					
	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr32					
	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	STD	STD
FreeCntr8					
FreescaleAnalogComp	Analog comparator on Freescale derivatives	-	-	-	-
	CAN communication for Freescale implementation	-	-	-	-
FreescaleCAN					
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family

Component description

**MC9S08AW16A-44,
MC9S08AW8A-44**

**MC9S08AW16A-32,
MC9S08AW8A-32**

**MC9S08AC60-64,
MC9S08AC32-64,
MC9S08AC48-64**

**MC9S08AC60-48,
MC9S08AC32-48,
MC9S08AC48-48**

Component\CPU family	Component description	MC9S08AW16A-44, MC9S08AW8A-44	MC9S08AW16A-32, MC9S08AW8A-32	MC9S08AC60-64, MC9S08AC32-64, MC9S08AC48-64	MC9S08AC60-48, MC9S08AC32-48, MC9S08AC48-48
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08AW16A-44, MC9S08AW8A-44	MC9S08AW16A-32, MC9S08AW8A-32	MC9S08AC60-64, MC9S08AC32-64, MC9S08AC48-64	MC9S08AC60-48, MC9S08AC32-48, MC9S08AC48-48
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRACMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRACMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	-	-	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	STD	STD	STD	STD
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08AW16A-44, MC9S08AW8A-44	MC9S08AW16A-32, MC9S08AW8A-32	MC9S08AC60-64, MC9S08AC32-64, MC9S08AC48-64	MC9S08AC60-48, MC9S08AC32-48, MC9S08AC48-48
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08AC60-44, MC9S08AC32-44, MC9S08AC48-44	MC9S08AC48-32, MC9S08AC32-32, MC9S08AC60-32	MC9S08AC16-48, MC9S08AC8-48	MC9S08AC16-44, MC9S08AC8-44
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	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
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	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
FreescaleAnalogComp	Analog comparator on Freescale derivatives CAN communication for Freescale	-	-	-	-
FreescaleCAN	implementation	-	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family

Component description

MC9S08AC60-44,
MC9S08AC32-44,
MC9S08AC48-44

MC9S08AC48-32,
MC9S08AC32-32,
MC9S08AC60-32

MC9S08AC16-48,
MC9S08AC8-48

MC9S08AC16-44,
MC9S08AC8-44

Component\CPU family	Component description	MC9S08AC60-44, MC9S08AC32-44, MC9S08AC48-44	MC9S08AC48-32, MC9S08AC32-32, MC9S08AC60-32	MC9S08AC16-48, MC9S08AC8-48	MC9S08AC16-44, MC9S08AC8-44
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08AC60-44, MC9S08AC32-44, MC9S08AC48-44	MC9S08AC48-32, MC9S08AC32-32, MC9S08AC60-32	MC9S08AC16-48, MC9S08AC8-48	MC9S08AC16-44, MC9S08AC8-44
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRACMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRACMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	-	-	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	STD	STD	STD	STD
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08AC60-44, MC9S08AC32-44, MC9S08AC48-44	MC9S08AC48-32, MC9S08AC32-32, MC9S08AC60-32	MC9S08AC16-48, MC9S08AC8-48	MC9S08AC16-44, MC9S08AC8-44
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08AC16-42, MC9S08AC8-42	MC9S08AC16-32, MC9S08AC8-32	MC9S08AC128-80, MC9S08AC96-80	MC9S08AC128-64, MC9S08AC96-64
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	PRO	PRO	PRO
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	PRO	PRO	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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	STD
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	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	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	STD	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	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
FreeCntr32	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	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
FreescaleAnalogComp	Analog comparator on Freescale derivatives	-	-	-	-
FreescaleCAN	CAN communication for Freescale implementation	-	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MC9S08AC16-42, MC9S08AC8-42	MC9S08AC16-32, MC9S08AC8-32	MC9S08AC128-80, MC9S08AC96-80	MC9S08AC128-64, MC9S08AC96-64
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_COP_RS08	Computer Operating Properly (COP)	-	-	-	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	STD	STD	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	STD	STD	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	-	-	-



Component\CPU family	Component description	MC9S08AC16-42, MC9S08AC8-42	MC9S08AC16-32, MC9S08AC8-32	MC9S08AC128-80, MC9S08AC96-80	MC9S08AC128-64, MC9S08AC96-64
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	-	-	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRACMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRACMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	-	-	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	STD	STD	STD	STD
Init_RTI_RS08	Real Time Interrupt (RTI)	-	-	-	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	STD	STD	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08AC16-42, MC9S08AC8-42	MC9S08AC16-32, MC9S08AC8-32	MC9S08AC128-80, MC9S08AC96-80	MC9S08AC128-64, MC9S08AC96-64
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	STD	STD
IntFLASH	Internal FLASH	PRO	PRO	PRO	PRO
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	STD	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	STD	STD	STD
SynchroSlave	Slave for synchronous serial communication	STD	STD	STD	STD
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	PRO	PRO	PRO
TimerInt	Periodic interrupt	STD	STD	STD	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9S08AC128-44, MC9S08AC96-44	MC9RS08 SA12_32_SDIP, SA4_32_SDIP	MC9RS08 SA12_32_LQFP, SA4_32_LQFP	MC9RS08 SA12-28, SA4-28
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	PRO	-	-	-
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	PRO	-	-	-
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	STD	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	-	STD	STD	STD
Byte3IO	General Three-Bytes Input/Output	-	-	-	-
Byte4IO	General Four-Bytes Input/Output	-	-	-	-
ByteIO	General Byte Input/Output (8 bits)	STD	STD	STD	STD
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD	STD	STD	STD
EventCntr32	Event counter 32-bit	STD	-	-	-
EventCntr8	Event counter 8-bit	STD	STD	STD	STD
ExternalFile	External Binary File Converter	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	-	-	-
	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD
FreeCntr					
	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	-	-	-
FreeCntr16					
	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	-	-	-
FreeCntr32					
	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	-	-	-
FreeCntr8					
FreescaleAnalogComp	Analog comparator on Freescale derivatives	-	PRO	PRO	PRO
	CAN communication for Freescale implementation	-	-	-	-
FreescaleCAN					
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family

Component description

MC9S08AC128-44,
MC9S08AC96-44

MC9RS08
SA12_32_SDIP,
SA4_32_SDIP

MC9RS08
SA12_32_LQFP,
SA4_32_LQFP

MC9RS08
SA12-28,
SA4-28

Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	-	STD	STD	STD
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	STD	-	-	-
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	STD	STD	STD
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	STD	-	-	-
Init_COP_RS08	Computer Operating Properly (COP)	-	STD	STD	STD
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	STD	-	-	-
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	STD	-	-	-
Init_GPIO_RS08	General Purpose Input Output (GPIO)	-	STD	STD	STD
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	STD	-	-	-
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	STD	-	-	-
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	STD	-	-	-
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	-	STD	STD	STD



Component\CPU family	Component description	MC9S08AC128-44, MC9S08AC96-44	MC9RS08 SA12_32_SDIP, SA4_32_SDIP	MC9RS08 SA12_32_LQFP, SA4_32_LQFP	MC9RS08 SA12-28, SA4-28
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	-	STD	STD	STD
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRACMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRACMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	-	-	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	STD	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	-	STD	STD	STD
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	STD	-	-	-
Init_SCI_RS08	Serial Communications Interface (SCI)	-	STD	STD	STD
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	STD	-	-	-
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	STD	-	-	-
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	STD	STD	STD
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9S08AC128-44, MC9S08AC96-44	MC9RS08 SA12_32_SDIP, SA4_32_SDIP	MC9RS08 SA12_32_LQFP, SA4_32_LQFP	MC9RS08 SA12-28, SA4-28
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	-	-	-
InterruptVector	Interrupt vector handled in user code	STD	-	-	-
IntFLASH	Internal FLASH	PRO	-	-	-
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	-	-	-
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	STD	-	-	-
SynchroSlave	Slave for synchronous serial communication	STD	-	-	-
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	PRO	-	-	-
TimerInt	Periodic interrupt	STD	-	-	-
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9RS08 SA12-20, SA4-20	MC9RS08 LE4-28	MC9RS08 LA8-48	MC9RS08 KB2-8
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	-	-	-	-
AsynchroSerial	Asynchronous serial communication	STD	STD	STD	STD
AsynchroSlave	Asynchronous serial communication - slave	-	-	-	-
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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	-
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD	STD	STD	STD
EventCntr32	Event counter 32-bit	-	-	-	STD
EventCntr8	Event counter 8-bit	STD	STD	STD	STD
ExternalFile	External Binary File Converter	PRO	PRO	PRO	PRO
ExtInt	External interrupt	-	-	-	STD
	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD
FreeCntr					
	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	-	-	-	STD
FreeCntr16					
	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	-	-	-	STD
FreeCntr32					
	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	-	-	-	STD
FreeCntr8					
FreescaleAnalogComp	Analog comparator on Freescale derivatives	PRO	-	PRO	PRO
	CAN communication for Freescale implementation	-	-	-	-
FreescaleCAN					
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MC9RS08 SA12-20, SA4-20	MC9RS08 LE4-28	MC9RS08 LA8-48	MC9RS08 KB2-8
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	STD	-	STD	STD
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	-	-	-	-
Init_COP_RS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	-	-	-	-
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_RS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-	STD
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	-	-	-	-
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD



Component\CPU family	Component description	MC9RS08 SA12-20, SA4-20	MC9RS08 LE4-28	MC9RS08 LA8-48	MC9RS08 KB2-8
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	STD	STD	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	STD	-	STD	STD
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRAAMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRAAMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	-	-	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	STD	STD	STD	STD
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_RS08	Serial Communications Interface (SCI)	STD	STD	STD	STD
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	STD	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9RS08 SA12-20, SA4-20	MC9RS08 LE4-28	MC9RS08 LA8-48	MC9RS08 KB2-8
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	-	-	-	PRO
InterruptVector	Interrupt vector handled in user code	-	-	-	STD
IntFLASH	Internal FLASH	-	-	-	-
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	PRO	PRO	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	-	-	-	STD
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	-	-	STD	-
SynchroSlave	Slave for synchronous serial communication	-	-	STD	-
Term	ANSI Terminal	PRO	PRO	PRO	PRO
TimeDate	Time and date	-	-	-	PRO
TimerInt	Periodic interrupt	-	-	-	STD
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9RS08 KB12-20, KB4-20, KB8-20	MC9RS08 KB12-16, KB4-16, KB8-16	MC9RS08 KA8-20, KA4-20	MC9RS08 KA8-16, KA4-16
ADC	A/D converter	STD	STD	STD	STD
AsynchroMaster	Asynchronous serial communication - master	-	-	-	-
AsynchroSerial	Asynchronous serial communication	STD	STD	-	-
AsynchroSlave	Asynchronous serial communication - slave	-	-	-	-
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free	free
BasicProperties					
BitIO	General 1-bit Input/Output	STD	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD	STD
BWimage	Black & White image	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
Capture	Timer capture encapsulation	STD	STD	STD	STD
COLimage	Color image	STD	STD	STD	STD
EventCntr16	Event counter 16-bit	STD	STD	STD	STD
EventCntr32	Event counter 32-bit	STD	STD	-	-
EventCntr8	Event counter 8-bit	STD	STD	STD	STD
ExternalFile	External Binary File Converter	PRO	PRO	PRO	PRO
ExtInt	External interrupt	STD	STD	-	-
	Time measurement based on counter value (suitable for short time periods)	STD	STD	STD	STD
FreeCntr					
	Time measurement counting periodic interrupt ticks in 16-bit SW counter (suitable for longer time periods).	STD	STD	-	-
FreeCntr16					
	Time measurement counting periodic interrupt ticks in 32-bit SW counter (suitable for longer time periods).	STD	STD	-	-
FreeCntr32					
	Time measurement counting periodic interrupt ticks in 8-bit SW counter (suitable for longer time periods).	STD	STD	-	-
FreeCntr8					
FreescaleAnalogComp	Analog comparator on Freescale derivates	PRO	PRO	PRO	PRO
	CAN communication for Freescale implementation	-	-	-	-
FreescaleCAN					
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-	-



Component\CPU family	Component description	MC9RS08 KB12-20, KB4-20, KB8-20	MC9RS08 KB12-16, KB4-16, KB8-16	MC9RS08 KA8-20, KA4-20	MC9RS08 KA8-16, KA4-16
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	-	-	-	-
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	STD	STD	STD	STD
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	-	-	-	-
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	STD	STD	STD	STD
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	-	-	-	-
Init_COP_RS08	Computer Operating Properly (COP)	STD	STD	STD	STD
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	-	-	-	-
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	-	-	-	-
Init_GPIO_RS08	General Purpose Input Output (GPIO)	STD	STD	STD	STD
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	-	-	-	-
Init_IIC_RS08	Inter-IC Bus (IIC)	STD	STD	STD	STD
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	-	-	-	-
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	-	-	-	-
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	STD	STD	STD	STD



Component\CPU family	Component description	MC9RS08 KB12-20, KB4-20, KB8-20	MC9RS08 KB12-16, KB4-16, KB8-16	MC9RS08 KA8-20, KA4-20	MC9RS08 KA8-16, KA4-16
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	STD	STD	STD	STD
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-	-
Init_PRACMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-	-
Init_PRACMP_HCS08	Programmable Reference Analog Comparator	-	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	-	-	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	-	-
Init_RTI_RS08	Real Time Interrupt (RTI)	STD	STD	STD	STD
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	-	-	-	-
Init_SCI_RS08	Serial Communications Interface (SCI)	STD	STD	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	-	-	-	-
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	STD	STD	STD	STD
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-	-



Component\CPU family	Component description	MC9RS08 KB12-20, KB4-20, KB8-20	MC9RS08 KB12-16, KB4-16, KB8-16	MC9RS08 KA8-20, KA4-20	MC9RS08 KA8-16, KA4-16
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-	-
InputPin	General 1-bit Input	-	-	-	-
IntEEPROM	Internal EEPROM	-	-	-	-
InternalI2C	Internal I2C Communication Interface	PRO	PRO	PRO	PRO
InterruptVector	Interrupt vector handled in user code	STD	STD	-	-
IntFLASH	Internal FLASH	-	-	-	-
KBI	Keyboard	PRO	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-	-
PPG	Programmable pulse generation	STD	STD	STD	STD
PWM	Pulse width modulation	STD	STD	STD	STD
PWMMC	Pulse width modulation for motor control	-	-	-	-
RTC	Real Time Clock	-	-	-	-
RTIshared	Real Time Interrupt Shareable	STD	STD	-	-
StringList	String List Converter	PRO	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	-	-	-	-
SynchroSlave	Slave for synchronous serial communication	-	-	-	-
Term	ANSI Terminal	PRO	PRO	-	-
TimeDate	Time and date	PRO	PRO	-	-
TimerInt	Periodic interrupt	STD	STD	-	-
TimerOut	Flip-flop output 1:1	STD	STD	STD	STD
TwoKeys	Bean generated by Bean Creator	free	free	free	free
WatchDog	WatchDog bean	STD	STD	STD	STD



Component\CPU family	Component description	MC9RS08 KA2-8, KA1-8	MC9RS08 KA2-6, KA1-6	MC13214, MC13211, MC13212, MC13213
ADC	A/D converter	-	-	STD
AsynchroMaster	Asynchronous serial communication - master	-	-	PRO
AsynchroSerial	Asynchronous serial communication	-	-	STD
AsynchroSlave	Asynchronous serial communication - slave	-	-	PRO
	This component is example of basic properties. The component was designed to help developers start creating a new user beans quickly.	free	free	free
BasicProperties				
BitIO	General 1-bit Input/Output	STD	STD	STD
BitsIO	General Multi-Bits Input/Output (1-8 bits)	STD	STD	STD
BWimage	Black & White image	STD	STD	STD
Byte2IO	General Two-Bytes Input/Output	-	-	STD
Byte3IO	General Three-Bytes Input/Output	-	-	STD
Byte4IO	General Four-Bytes Input/Output	-	-	STD
ByteIO	General Byte Input/Output (8 bits)	-	-	STD
Capture	Timer capture encapsulation	-	-	STD
COLimage	Color image	STD	STD	STD
EventCntr16	Event counter 16-bit	-	-	-
EventCntr32	Event counter 32-bit	-	-	-
EventCntr8	Event counter 8-bit	STD	STD	-
ExternalFile	External Binary File Converter	PRO	PRO	PRO
ExtInt	External interrupt	-	-	STD
FreeCntr	Time measurement based on counter value (suitable for short time periods)	STD	STD	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
FreescaleAnalogComp	Analog comparator on Freescale derivatives CAN communication for Freescale	PRO	PRO	-
FreescaleCAN	implementation	-	-	-
FreescaleCMT	Freescale Carrier Modulator Timer	-	-	-



Component\CPU family	Component description	MC9RS08 KA2-8, KA1-8	MC9RS08 KA2-6, KA1-6	MC13214, MC13211, MC13212, MC13213
Init_ACMP_COLDFIREV1	Freescale Analog Comparator (ACMP)	-	-	-
Init_ACMP_HCS08	Freescale Analog Comparator (ACMP)	-	-	-
Init_ACMP_RS08	Freescale Analog Comparator (ACMP)	STD	STD	-
Init_ADC_COLDFIREV1	Analog-to-Digital Converter (ADC)	-	-	-
Init_ADC_HCS08	Analog-to-Digital Converter (ADC)	-	-	STD
Init_ADC_RS08	Analog-to-Digital Converter (ADC)	-	-	-
Init_AWT_HCS08	AutoWake-up Timer module (AWT)	-	-	-
Init_CMT_COLDFIREV1	Carrier Modulator Timer (CMT)	-	-	-
Init_CMT_HCS08	Carrier Modulator Timer (CMT)	-	-	-
Init_COP_COLDFIREV1	Computer Operating Properly (COP)	-	-	-
Init_COP_HCS08	Computer Operating Properly (COP)	-	-	STD
Init_COP_RS08	Computer Operating Properly (COP)	STD	STD	-
Init_DAC_COLDFIREV1	Digital to Analog Converter Init Bean	-	-	-
Init_DAC_HCS08	Digital to Analog Converter Init Bean	-	-	-
Init_DMA_COLDFIREV1	Direct memory access Init Bean	-	-	-
Init_EWM_COLDFIREV1	External Watchdog Monitor (EWM)	-	-	-
Init_FDS_HCS08	Fault Detection and Shutdown Init Bean	-	-	-
Init_FEC_COLDFIREV1	Fast Ethernet Controller (FEC)	-	-	-
Init_FLASH_COLDFIREV1	Flash Memory (FLASH)	-	-	-
Init_FLASH_HCS08	Flash Memory (FLASH)	-	-	STD
Init_FTM_COLDFIREV1	Flexible Timer Init Bean	-	-	-
Init_FTM_HCS08	Flexible Timer Init Bean	-	-	-
Init_GPIO_COLDFIREV1	General Purpose Input Output (GPIO)	-	-	-
Init_GPIO_HCS08	General Purpose Input Output (GPIO)	-	-	STD
Init_GPIO_RS08	General Purpose Input Output (GPIO)	STD	STD	-
Init_HSCMP_COLDFIREV1	High Speed Comparator Init Bean	-	-	-
Init_HSCMP_HCS08	High Speed Comparator Init Bean	-	-	-
Init_iEVENT_COLDFIREV1	Intelligent Event Controller (iEVENT)	-	-	-
Init_IIC_COLDFIREV1	Inter-IC Bus (IIC)	-	-	-
Init_IIC_HCS08	Inter-IC Bus (IIC)	-	-	STD
Init_IIC_RS08	Inter-IC Bus (IIC)	-	-	-
Init_IRQ_COLDFIREV1	External Interrupt Module (IRQ)	-	-	-
Init_IRQ_HCS08	External Interrupt Module (IRQ)	-	-	STD
Init_IRTC_COLDFIREV1	Independent Real Time Clock Init Bean	-	-	-
Init_KBI_COLDFIREV1	Keyboard Interrupt Module (KBI)	-	-	-
Init_KBI_HCS08	Keyboard Interrupt Module (KBI)	-	-	STD
Init_KBI_RS08	Keyboard Interrupt Module (KBI)	STD	STD	-



Component\CPU family	Component description	MC9RS08 KA2-8, KA1-8	MC9RS08 KA2-6, KA1-6	MC13214, MC13211, MC13212, MC13213
Init_LCD_COLDFIREV1	Liquid Crystal Display (LCD)	-	-	-
Init_LCD_HCS08	Liquid Crystal Display (LCD)	-	-	-
Init_LCD_RS08	Liquid Crystal Display (LCD)	-	-	-
Init_MSCAN_COLDFIREV1	Motorola Scalable Controller Area Network (MSCAN)	-	-	-
Init_MSCAN_HCS08	Motorola Scalable Controller Area Network (MSCAN)	-	-	-
Init_MTIM_COLDFIREV1	Modulo Timer (MTIM)	-	-	-
Init_MTIM_HCS08	Modulo Timer (MTIM)	-	-	-
Init_MTIM_RS08	Modulo Timer (MTIM)	STD	STD	-
Init_PDB_COLDFIREV1	Programmable Delay Block (PDB)	-	-	-
Init_PDB_HCS08	Programmable Delay Block (PDB)	-	-	-
Init_PGA_HCS08	Programmable Gain Amplifier Init Bean	-	-	-
Init_PRACTMP_COLDFIREV1	Programmable Reference Analog Comparator	-	-	-
Init_PRACTMP_HCS08	Programmable Reference Analog Comparator	-	-	-
Init_PWT_HCS08	Pulse Width Timer Init Bean	-	-	-
Init_RNGA_COLDFIREV1	Random Number Generator Accelerator Init Bean	-	-	-
Init_RTC_COLDFIREV1	Real-Time Counter(RTC)	-	-	-
Init_RTC_HCS08	Real-Time Counter(RTC)	-	-	-
Init_RTI_COLDFIREV1	Real Time Interrupt (RTI)	-	-	-
Init_RTI_HCS08	Real Time Interrupt (RTI)	-	-	STD
Init_RTI_RS08	Real Time Interrupt (RTI)	STD	STD	-
Init_SCI_COLDFIREV1	Serial Communications Interface (SCI)	-	-	-
Init_SCI_HCS08	Serial Communications Interface (SCI)	-	-	STD
Init_SCI_RS08	Serial Communications Interface (SCI)	-	-	-
Init_SLIC_HCS08	Slave LIN Interface Controller (SLIC)	-	-	-
Init_SPI_COLDFIREV1	Serial Peripheral Interface (SPI)	-	-	-
Init_SPI_HCS08	Serial Peripheral Interface (SPI)	-	-	STD
Init_SPI_RS08	Serial Peripheral Interface (SPI)	-	-	-
Init_TOD_HCS08	Time Of Day (TOD)	-	-	-
Init_TPM_COLDFIREV1	Timer Pulse Width Modulator (TPM)	-	-	-
Init_TPM_HCS08	Timer Pulse Width Modulator (TPM)	-	-	STD
Init_TPM_RS08	Timer Pulse Width Modulator (TPM)	-	-	-
Init_USB_HCS08	Universal Serial Bus (USB)	-	-	-
Init_USB_OTG_COLDFIREV1	USB OTG Init Bean	-	-	-
Init_VREF_COLDFIREV1	Voltage Reference Init Bean	-	-	-



Component\CPU family	Component description	MC9RS08 KA2-8, KA1-8	MC9RS08 KA2-6, KA1-6	MC13214, MC13211, MC13212, MC13213
Init_VREF_HCS08	Voltage Reference Init Bean	-	-	-
Init_WDOG_COLDFIREV1	Generation 2008 Watchdog Timer (WDOG)	-	-	-
InputPin	General 1-bit Input	-	-	-
IntEEPROM	Internal EEPROM	-	-	-
InternalI2C	Internal I2C Communication Interface	-	-	PRO
InterruptVector	Interrupt vector handled in user code	-	-	STD
IntFLASH	Internal FLASH	-	-	PRO
KBI	Keyboard	PRO	PRO	PRO
LCD	Liquid Crystal Display	-	-	-
PPG	Programmable pulse generation	-	-	STD
PWM	Pulse width modulation	-	-	STD
PWMMC	Pulse width modulation for motor control	-	-	-
RTC	Real Time Clock	-	-	-
RTIshared	Real Time Interrupt Shareable	-	-	STD
StringList	String List Converter	PRO	PRO	PRO
SW_I2C	SW emulated I2C using two I/O pins.	STD	STD	STD
SWSPI	Software synchronous serial communication	STD	STD	STD
SynchroMaster	Master for synchronous serial communication	-	-	STD
SynchroSlave	Slave for synchronous serial communication	-	-	-
Term	ANSI Terminal	-	-	PRO
TimeDate	Time and date	-	-	PRO
TimerInt	Periodic interrupt	-	-	STD
TimerOut	Flip-flop output 1:1	-	-	STD
TwoKeys	Bean generated by Bean Creator	free	free	free
WatchDog	WatchDog bean	STD	STD	STD