Bit	7	6	5	4	3	2	1	0
	RUNSTDBY		CSUTHF[1:0]		FRQRANGE[1:0]		SELHF	ENABLE
Access	R/W		R/W	R/W	R/W	R/W	R/W	R/W
Reset	0		0	0	0	0	0	0

Bit 7 - RUNSTDBY Run Standby

This bit controls whether the External High-Frequency Oscillator (XOSCHF) is always running or not, when the ENABLE bit is `1'.

Value	Description
0	The XOSCHF oscillator will only run when requested by a peripheral or by the main clock $^{(1)}$
1	The XOSCHF oscillator will always run in Active, Idle and Standby sleep modes (2)

Notes:

- 1. The requesting peripheral, or the main clock, must take the oscillator start-up time into account.
- 2. The oscillator signal is only available if requested, and will be available after two XOSCHF cycles, if the initial crystal start-up time has already ended.

Bits 5:4 - CSUTHF[1:0] Crystal Start-up Time

This bit field controls the start-up time for the External High-Frequency Oscillator (XOSCHF), when the Source Select (SELHF) bit is '0'.

Value	Name	Description
0x0	256	256 XOSCHF cycles
0x1	1K	1K XOSCHF cycles
0x2	4K	4K XOSCHF cycles
0x3	-	Reserved

Note: This bit field is read-only when the ENABLE bit or the External Crystal/Clock Status (XOSCHFS) bit in the Main Clock Status (MCLKSTATUS) register is `1'.

Bits 3:2 - FRQRANGE[1:0] Frequency Range

This bit field controls the maximum frequency supported for the external crystal. The larger the range selected, the higher the current consumption by the oscillator.

Value	Name	Description
0x0	8M	Max. 8 MHz XTAL frequency
0x1	16M	Max. 16 MHz XTAL frequency
0x2	24M	Max. 24 MHz XTAL frequency
0x3	32M	Max. 32 MHz XTAL frequency

Note: If a crystal with a frequency larger than the maximum supported CLK_CPU frequency is used and used as the main clock, it is necessary to divide it down by writing the appropriate configuration to the PDIV bit field in the Main Clock Control B register.

Bit 1 - SELHF Source Select

This bit controls the source of the External High-Frequency Oscillator (XOSCHE).

This bit contacts are source of the External High Proquency Oscillator (XX			External right requercy obtained (Nobel in).
	Value	Name	Description
	0	CRYSTAL	External Crystal on the XTALHF1 and XTALHF2 pins
	1	EXTCLOCK	External Clock on the XTALHF1 pin

Note: This bit field is read-only when the ENABLE bit or the External Crystal/Clock Status (XOSCHFS) bit in the Main Clock Status (MCLKSTATUS) register is `1'.

Bit 0 - ENABLE Enable

This bit controls whether the External High-Frequency Oscillator (XOSCHE) is enabled or not

	This bit controls whether the External riight requeries oscillator (Acoserir) is chabled of riod		
Value Description		Description	
	0	The XOSCHF oscillator is disabled	
	1	The XOSCHF oscillator is enabled, and overrides normal port operation for the respective oscillator	
		pins	