The RTC.PERL and RTC.PERH register pair represents the 16-bit value, PER. The low byte [7:0] (suffix L) is accessible at the original offset. The high byte [15:8] (suffix H) can be accessed at offset `+0x01`. For more details on reading and writing 16-bit registers, refer to *Accessing 16-bit Registers* in the CPU section.
Due to synchronization between the RTC clock and system clock domains, there is a latency of two RTC clock cycles from updating the register until this has an effect. The application software needs to check that the PERBUSY flag in RTC.STATUS is cleared before writing to this register.

Bit	15	14	13	12	11	10	9	8
	PER[15:8]							
Access	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W
Reset	1	1	1	1	1	1	1	1

Bit	7	6	5	4	3	2	1	0
	PER[7:0]							
Access	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W
Reset	1	1	1	1	1	1	1	1

Bits 15:8 – PER[15:8] Period High Byte
These bits hold the MSB of the 16-bit Period register.

Bits 7:0 – PER[7:0] Period Low Byte
These bits hold the LSB of the 16-bit Period register.