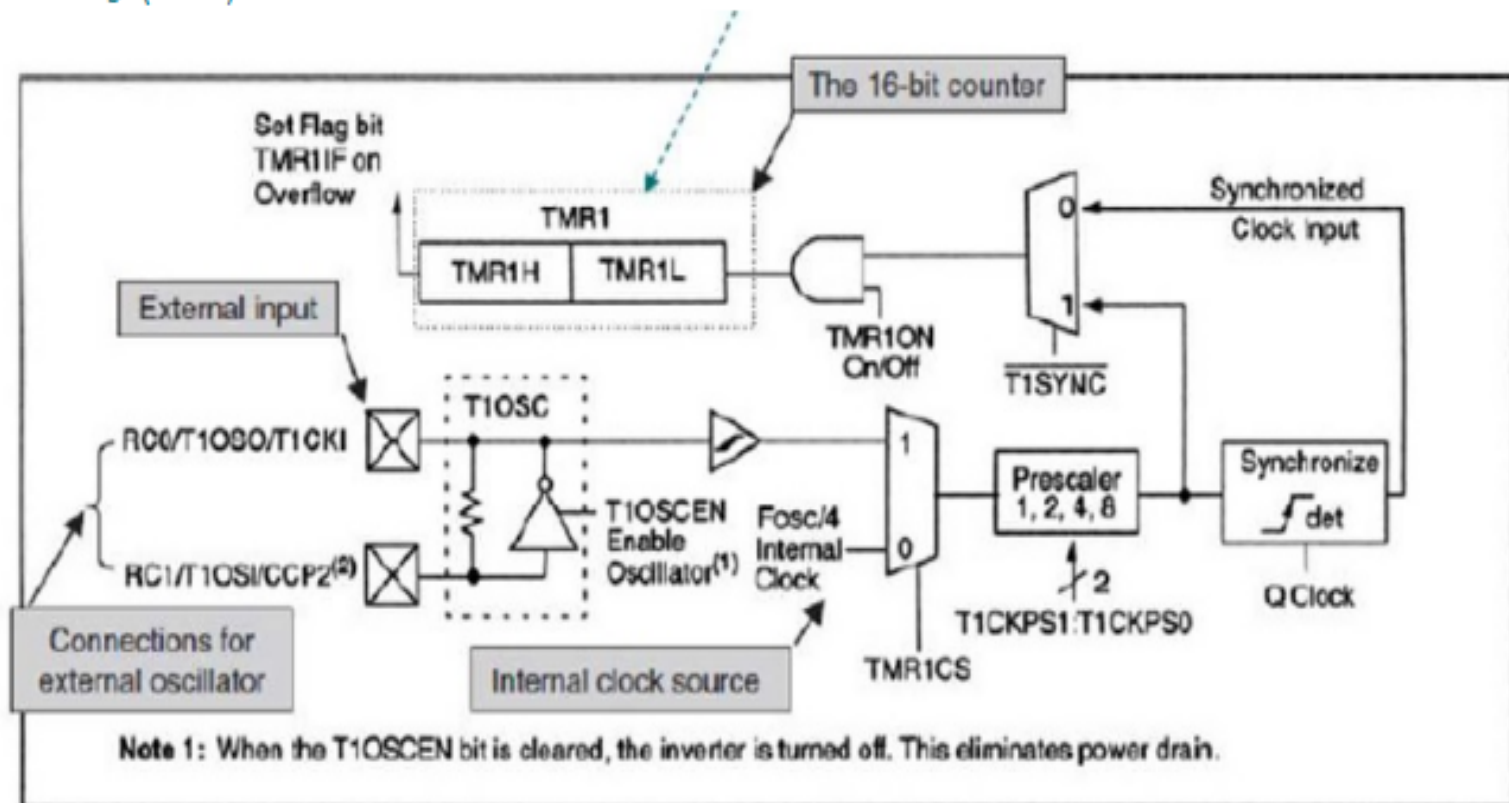# PIC16F87XA TIMER1 Module

Timer 1 module is an 16-bit timer/counter module. It is made up of two 8-bit registers, TMR1H and TMR1L, which are SFRs located at $0F_H$ and $0E_H$ in data memory. With these two registers together, indicated as TMR1 in the block diagram, they can count from 0000 to $FFFF_H$ $(=65535_D=(2^{16}-1)$
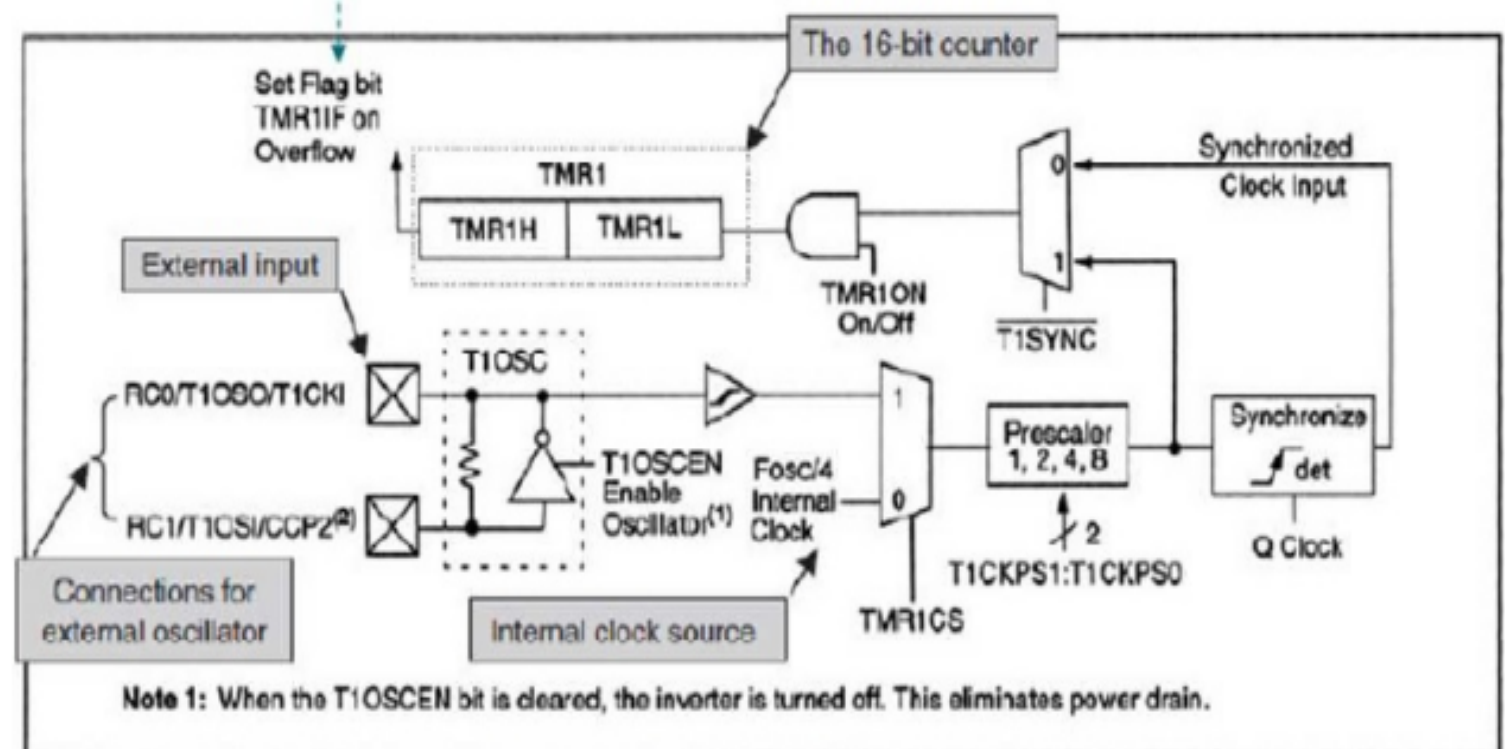

Timer 1 Block Diagram

When the count rolls over from $FFFF_H$ back to 0 the associated interrupt flag TMR1 IF is set.
Timer 1 operation is controlled by the T1CON register.
Timer can be switched ON or OFF with TMR1ON bit of T1CON register.

Timer 1 Block Diagram