PIC16F627A/628A/648A

4.2.2.5 PIR1 Register

This register contains interrupt flag bits.

Note: Interrupt flag bits get set when an interrupt condition occurs regardless of the state of its corresponding enable bit or the global enable bit, GIE (INTCON<7>). User software should ensure the appropriate interrupt flag bits are clear prior to enabling an interrupt.

REGISTER 4-5: PIR1 – PERIPHERAL INTERRUPT REGISTER 1 (ADDRESS: 0Ch)

R/W-0	R/W-0	R-0	R-0	U-0	R/W-0	R/W-0	R/W-0
EEIF	CMIF	RCIF	TXIF	_	CCP1IF	TMR2IF	TMR1IF
bit 7							

bit 7 **EEIF:** EEPROM Write Operation Interrupt Flag bit

1 = The write operation completed (must be cleared in software)0 = The write operation has not completed or has not been started

bit 6 CMIF: Comparator Interrupt Flag bit

1 = Comparator output has changed

0 = Comparator output has not changed

bit 5 RCIF: USART Receive Interrupt Flag bit

1 = The USART receive buffer is full

0 = The USART receive buffer is empty

bit 4 TXIF: USART Transmit Interrupt Flag bit

1 = The USART transmit buffer is empty

0 = The USART transmit buffer is full

bit 3 **Unimplemented**: Read as '0'

bit 2 CCP1IF: CCP1 Interrupt Flag bit

Capture Mode

1 = A TMR1 register capture occurred (must be cleared in software)

0 = No TMR1 register capture occurred

Compare Mode

1 = A TMR1 register compare match occurred (must be cleared in software)

0 = No TMR1 register compare match occurred

PWM Mode

Unused in this mode

bit 1 TMR2IF: TMR2 to PR2 Match Interrupt Flag bit

1 = TMR2 to PR2 match occurred (must be cleared in software)

0 = No TMR2 to PR2 match occurred

bit 0 TMR1IF: TMR1 Overflow Interrupt Flag bit

1 = TMR1 register overflowed (must be cleared in software)

0 = TMR1 register did not overflow

Legend:

R = Readable bit W = Writable bit U = Unimplemented bit, read as '0'
-n = Value at POR '1' = Bit is set '0' = Bit is cleared x = Bit is unknown