PIC16F87/88

REGISTER 15-1: CONFIG1: CONFIGURATION WORD 1 REGISTER (ADDRESS 2007h)

R/P-1	R/P-1	R/P-1	R/P-1	R/P-1	R/P-1	R/P-1	R/P-1	R/P-1	R/P-1	R/P-1	R/P-1	R/P-1	R/P-1
CP	CCPMX	DEBUG	WRT1	WRT0	CPD	LVP	BOREN	MCLRE	FOSC2	PWRTEN	WDTEN	FOSC1	FOSC0
bit 13	•						•						bit 0

bit 13 CP: Flash Program Memory Code Protection bits

1 = Code protection off

0 = 0000h to 0FFFh code-protected (all protected)

bit 12 CCPMX: CCP1 Pin Selection bit

1 = CCP1 function on RB0

0 = CCP1 function on RB3

bit 11 DEBUG: In-Circuit Debugger Mode bit

1 = In-Circuit Debugger disabled, RB6 and RB7 are general purpose I/O pins

0 = In-Circuit Debugger enabled, RB6 and RB7 are dedicated to the debugger

bit 10-9 WRT<1:0>: Flash Program Memory Write Enable bits

11 = Write protection off

10 = 0000h to 00FFh write-protected, 0100h to 0FFFh may be modified by EECON control

01 = 0000h to 07FFh write-protected, 0800h to 0FFFh may be modified by EECON control

00 = 0000h to 0FFFh write-protected

bit 8 CPD: Data EE Memory Code Protection bit

1 = Code protection off

0 = Data EE memory code-protected

bit 7 LVP: Low-Voltage Programming Enable bit

1 = RB3/PGM pin has PGM function, Low-Voltage Programming enabled

0 = RB3 is digital I/O, HV on MCLR must be used for programming

bit 6 BOREN: Brown-out Reset Enable bit

1 = BOR enabled

0 = BOR disabled

bit 5 MCLRE: RA5/MCLR/VPP Pin Function Select bit

 $1 = RA5/\overline{MCLR}/VPP$ pin function is \overline{MCLR}

0 = RA5/MCLR/VPP pin function is digital I/O, MCLR internally tied to VDD

bit 3 PWRTEN: Power-up Timer Enable bit

1 = PWRT disabled

o = PWRT enabled

bit 2 WDTEN: Watchdog Timer Enable bit

1 = WDT enabled

0 = WDT disabled

bit 4, 1-0 FOSC<2:0>: Oscillator Selection bits

111 = EXTRC oscillator; CLKO function on RA6/OSC2/CLKO

110 = EXTRC oscillator; port I/O function on RA6/OSC2/CLKO

101 = INTRC oscillator; CLKO function on RA6/OSC2/CLKO pin and port I/O function on RA7/OSC1/CLKI pin

100 = INTRC oscillator; port I/O function on both RA6/OSC2/CLKO pin and RA7/OSC1/CLKI pin

011 = ECIO; port I/O function on RA6/OSC2/CLKO

010 = HS oscillator

001 = XT oscillator

000 = LP oscillator

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