

# PIC18 Configuration Settings Addendum

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## PIC18F4431

### Oscillator Selection:

OSC = LP	LP
OSC = XT	XT
OSC = HS	HS
OSC = RC2	External RC, RA6 is CLKOUT
OSC = EC	EC, RA6 is CLKOUT
OSC = ECIO	EC, RA6 is I/O
OSC = HSPLL	HS-PLL Enabled
OSC = RCIO	External RC, RA6 is I/O
OSC = IRCIO	Internal RC, RA6 & RA7 are I/O
OSC = IRC	Internal RC, RA6 is CLKOUT, RA7 is I/O
OSC = RC1	External RC, RA6 is CLKOUT
OSC = RC	External RC, RA6 is CLKOUT

### Fail Safe Clock Monitor Enable:

FCMEN = OFF	Disabled
FCMEN = ON	Enabled

### Internal/External Switch-Over:

IESO = OFF	Disabled
IESO = ON	Enabled

### Power Up Timer:

PWRTEN = ON	Enabled
PWRTEN = OFF	Disabled

### Brown Out Reset:

BOREN = OFF	Disabled
BOREN = ON	Enabled

### Brown Out Voltage:

BORV = 45	4.5V
BORV = 42	4.2V
BORV = 27	2.7V
BORV = 20	2.0V

### Watchdog Timer:

WDTEN = OFF	Disabled
WDTEN = ON	Enabled

### Watchdog Timer Enable Window:

WINEN = ON	Enabled
WINEN = OFF	Disabled

## Watchdog Postscaler:

WDPS = 1	1:1
WDPS = 2	1:2
WDPS = 4	1:4
WDPS = 8	1:8
WDPS = 16	1:16
WDPS = 32	1:32
WDPS = 64	1:64
WDPS = 128	1:128
WDPS = 256	1:256
WDPS = 512	1:512
WDPS = 1024	1:1024
WDPS = 2048	1:2048
WDPS = 4096	1:4096
WDPS = 8192	1:8192
WDPS = 16384	1:16384
WDPS = 32768	1:32768

## Timer1 Oscillator Mux:

T1OSCMX = OFF	Active
T1OSCMX = ON	Inactive

## High-Side Transistors Polarity:

HPOL = LOW	Active low
HPOL = HIGH	Active high

## Low-Side Transistors Polarity:

LPOL = LOW	Active low
LPOL = HIGH	Active high

## PWM output pins RESET state control:

PWMPIN = ON	Enabled
PWMPIN = OFF	Disabled

## MCLR Enable:

MCLRE = OFF	Disabled
MCLRE = ON	Enabled

## External clock MUX bit:

EXCLKMX = RD0	MUXed with RD0
EXCLKMX = RC3	MUXed with RC3

## PWM4 MUX bit:

PWM4MX = RD5	MUXed with RD5
PWM4MX = RB5	MUXed with RB5

## SSP I/O MUX bit:

SSPMX = RD1	SDO output muxed with RD1
SSPMX = RC7	SD0 output muxed with RC7

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## FLTA MUX bit:

FLTAMX = RD4	MUXed with RD4
FLTAMX = RC1	MUXed with RC1

## Stack Overflow Reset:

STVREN = OFF	Disabled
STVREN = ON	Enabled

## Low Voltage Programming:

LVP = OFF	Disabled
LVP = ON	Enabled

## Background Debugger Enable:

DEBUG = ON	Enabled
DEBUG = OFF	Disabled

## Code Protection Block 0:

CP0 = ON	Enabled
CP0 = OFF	Disabled

## Code Protection Block 1:

CP1 = ON	Enabled
CP1 = OFF	Disabled

## Code Protection Block 2:

CP2 = ON	Enabled
CP2 = OFF	Disabled

## Code Protection Block 3:

CP3 = ON	Enabled
CP3 = OFF	Disabled

## Boot Block Code Protection:

CPB = ON	Enabled
CPB = OFF	Disabled

## Data EEPROM Code Protection:

CPD = ON	Enabled
CPD = OFF	Disabled

## Write Protection Block 0:

WRT0 = ON	Enabled
WRT0 = OFF	Disabled

## Write Protection Block 1:

WRT1 = ON	Enabled
WRT1 = OFF	Disabled

## Write Protection Block 2:

WRT2 = ON	Enabled
WRT2 = OFF	Disabled

## Write Protection Block 3:

WRT3 = ON	Enabled
WRT3 = OFF	Disabled

## Boot Block Write Protection:

WRTB = ON	Enabled
WRTB = OFF	Disabled

## Configuration Register Write Protection:

WRTC = ON	Enabled
WRTC = OFF	Disabled

## Data EEPROM Write Protection:

WRTD = ON	Enabled
WRTD = OFF	Disabled

## Table Read Protection Block 0:

EBTR0 = ON	Enabled
EBTR0 = OFF	Disabled

## Table Read Protection Block 1:

EBTR1 = ON	Enabled
EBTR1 = OFF	Disabled

## Table Read Protection Block 2:

EBTR2 = ON	Enabled
EBTR2 = OFF	Disabled

## Table Read Protection Block 3:

EBTR3 = ON	Enabled
EBTR3 = OFF	Disabled

## Boot Block Table Read Protection:

EBTRB = ON	Enabled
EBTRB = OFF	Disabled

## PIC18F4439

## Oscillator Selection:

OSC = LP	LP
OSC = XT	XT
OSC = HS	HS
OSC = RC	RC
OSC = EC	EC-OSC2 as Clock Out
OSC = ECIO	EC-OSC2 as RA6
OSC = HSPLL	HS-PLL Enabled
OSC = RCIO	RC-OSC2 as RA6

## Power Up Timer:

PWRT = ON	Enabled
PWRT = OFF	Disabled