PIC18Fxxx Instruction Set

Byte-oriented File Register Operations

- **ADDWF** — Add WREG to f
- **ADDWFC** — Add WREG and Carry bit to f
- **ANDWF** — AND WREG with f
- **CLRF** — Clear f
- **COMF** — Complement f
- **CPFSEQ** — Compare f with WREG, skip =
- **CPFSGT** — Compare f with WREG, skip if >
- **CPFSLT** — Compare f with WREG, skip if <
- **DECF** — Decrement f
- **DECFSZ** — Decrement f, Skip if 0
- **DCFSNZ** — Decrement f, Skip if Not 0
- **INCF** — Increment f
- **INCFSZ** — Increment f, Skip if 0
- **INFSNZ** — Increment f, Skip if Not 0
- **IORWF** — Inclusive OR WREG with f
- **MOVF** — Move f
- **MOVFF** — Move fs (source) to fd (destination)
- **MOVWF** — Move WREG to f
- **MULWF** — Multiply WREG with f
- **NEGF** — Negate f
- **RLCF** — Rotate Left f through Carry
- **RLNCF** — Rotate Left f (No Carry)
- **RRCF** — Rotate Right f through Carry
- **RRNCF** — Rotate Right f (No Carry)
- **SETF** — Set f
- **SUBFWB** — Subtract f from WREG with borrow
- **SUBWF** — Subtract WREG from f
- **SUBWFB** — Subtract WREG from f with borrow
- **SWAPF** — Swap nibbles in f
- **TSTFSZ** — Test f, skip if 0
- **XORWF** — Exclusive OR WREG with f

Bit-oriented File Register Operations

- **BCF** — Bit Clear f
- **BSF** — Bit Set f
- **BTFSC** — Bit Test f, Skip if Clear
- **BTFSS** — Bit Test f, Skip if Set
- **BTG** — Bit Toggle f

Control Operations

- **BC** — Branch if Carry
- **BN** — Branch if Negative
- **BNC** — Branch if Not Carry

- **BNN** — Branch if Not Negative
- **BNOV** — Branch if Not Overflow
- **BNZ** — Branch if Not Zero
- **BOV** — Branch if Overflow
- **BRA** — Branch Unconditionally
- **BZ** — Branch if Zero
- **CALL** — Call subroutine
- **CLRWDT** — Clear Watchdog Timer
- **DAW** — Decimal Adjust WREG
- **GOTO** — Go to address
- **NOP** — No Operation
- **POP** — Pop top of return stack (TOS)
- **PUSH** — Push top of return stack (TOS)
- **RCALL** — Relative Call
- **RESET** — Software device RESET
- **RETFIE** — Return from interrupt enable
- **RETLW** — Return with literal in WREG
- **RETURN** — Return from Subroutine
- **SLEEP** — Go into Standby mode

Literal Operations

- **ADDLW** — Add literal and WREG
- **ANDLW** — AND literal with WREG
- **IORLW** — Inclusive OR literal with WREG
- **LFSR** — Move literal to FSRx
- **MOVLB** — Move literal to BSR<3:0>
- **MOVLW** — Move literal to WREG
- **MULLW** — Multiply literal with WREG
- **RETLW** — Return with literal in WREG
- **SUBLW** — Subtract WREG from literal
- **XORLW** — Exclusive OR literal with WREG

Data Memory & Program Memory Operations

- **TBLRD*** — Table Read
- **TBLRD*+** — Table Read with post-increment
- **TBLRD*-** — Table Read with post-decrement
- **TBLRD+*** — Table Read with pre-increment
- **TBLWT*** — Table Write
- **TBLWT*+** — Table Write with post-increment
- **TBLWT*-** — Table Write with post-decrement
- **TBLWT+*** — Table Write with pre-increment