

PIC18F8722 FAMILY

5.3.4 SPECIAL FUNCTION REGISTERS

The Special Function Registers (SFRs) are registers used by the CPU and peripheral modules for controlling the desired operation of the device. These registers are implemented as static RAM. SFRs start at the top of data memory (FFFh) and extend downward to occupy the top half of Bank 15 (F60h to FFFh). A list of these registers is given in Table 5-2 and Table 5-3.

The SFRs can be classified into two sets: those associated with the “core” device functionality (ALU, Resets and interrupts) and those related to the peripheral functions. The Reset and interrupt registers are described in their respective chapters, while the ALU’s STATUS register is described later in this section. Registers related to the operation of a peripheral feature are described in the chapter for that peripheral.

The SFRs are typically distributed among the peripherals whose functions they control. Unused SFR locations are unimplemented and read as ‘0’s.

TABLE 5-2: SPECIAL FUNCTION REGISTER MAP FOR THE PIC18F8722 FAMILY OF DEVICES

Address	Name	Address	Name	Address	Name	Address	Name	Address	Name
FFFh	TOSU	FDFh	INDF2 ⁽¹⁾	FBFh	CCPR1H	F9Fh	IPR1	F7Fh	SPBRGH1
FFEh	TOSH	FDEh	POSTINC2 ⁽¹⁾	FBEh	CCPR1L	F9Eh	PIR1	F7Eh	BAUDCON1
FFDh	TOSL	FDDh	POSTDEC2 ⁽¹⁾	FBDh	CCP1CON	F9Dh	PIE1	F7Dh	SPBRGH2
FFCh	STKPTR	FDCh	PREINC2 ⁽¹⁾	FBCh	CCPR2H	F9Ch	MEMCON	F7Ch	BAUDCON2
FFBh	PCLATU	FDBh	PLUSW2 ⁽¹⁾	FBHh	CCPR2L	F9Bh	OSCTUNE	F7Bh	— ⁽²⁾
FFAh	PCLATH	FDAh	FSR2H	FBAh	CCP2CON	F9Ah	TRISJ ⁽³⁾	F7Ah	— ⁽²⁾
FF9h	PCL	FD9h	FSR2L	FB9h	CCPR3H	F99h	TRISH ⁽³⁾	F79h	ECCP1DEL
FF8h	TBLPTRU	FD8h	STATUS	FB8h	CCPR3L	F98h	TRISG	F78h	TMR4
FF7h	TBLPTRH	FD7h	TMR0H	FB7h	CCP3CON	F97h	TRISF	F77h	PR4
FF6h	TBLPTL	FD6h	TMR0L	FB6h	ECCP1AS	F96h	TRISE	F76h	T4CON
FF5h	TABLAT	FD5h	T0CON	FB5h	CVRCON	F95h	TRISD	F75h	CCPR4H
FF4h	PRODH	FD4h	— ⁽²⁾	FB4h	CMCON	F94h	TRISC	F74h	CCPR4L
FF3h	PRODL	FD3h	OSCCON	FB3h	TMR3H	F93h	TRISB	F73h	CCP4CON
FF2h	INTCON	FD2h	HLVDCON	FB2h	TMR3L	F92h	TRISA	F72h	CCPR5H
FF1h	INTCON2	FD1h	WDTCON	FB1h	T3CON	F91h	LATJ ⁽³⁾	F71h	CCPR5L
FF0h	INTCON3	FD0h	RCON	FB0h	PSPCON	F90h	LATH ⁽³⁾	F70h	CCP5CON
FEFh	INDF0 ⁽¹⁾	FCFh	TMR1H	FAFh	SPBRG1	F8Fh	LATG	F6Fh	SPBRG2
FEeh	POSTINC0 ⁽¹⁾	FCEh	TMR1L	FAEh	RCREG1	F8Eh	LATF	F6Eh	RCREG2
FEDh	POSTDEC0 ⁽¹⁾	FCDh	T1CON	FADh	TXREG1	F8Dh	LATE	F6Dh	TXREG2
FECh	PREINC0 ⁽¹⁾	FCCh	TMR2	FACH	TXSTA1	F8Ch	LATD	F6Ch	TXSTA2
FEBh	PLUSW0 ⁽¹⁾	FCBh	PR2	FABh	RCSTA1	F8Bh	LATC	F6Bh	RCSTA2
FEAh	FSR0H	FCAh	T2CON	FAAh	EEADRH	F8Ah	LATB	F6Ah	ECCP3AS
FE9h	FSR0L	FC9h	SSP1BUF	FA9h	EEADR	F89h	LATA	F69h	ECCP3DEL
FE8h	WREG	FC8h	SSP1ADD	FA8h	EEDATA	F88h	PORTJ ⁽³⁾	F68h	ECCP2AS
FE7h	INDF1 ⁽¹⁾	FC7h	SSP1STAT	FA7h	EECON2 ⁽¹⁾	F87h	PORTH ⁽³⁾	F67h	ECCP2DEL
FE6h	POSTINC1 ⁽¹⁾	FC6h	SSP1CON1	FA6h	EECON1	F86h	PORTG	F66h	SSP2BUF
FE5h	POSTDEC1 ⁽¹⁾	FC5h	SSP1CON2	FA5h	IPR3	F85h	PORTF	F65h	SSP2ADD
FE4h	PREINC1 ⁽¹⁾	FC4h	ADRESH	FA4h	PIR3	F84h	PORTE	F64h	SSP2STAT
FE3h	PLUSW1 ⁽¹⁾	FC3h	ADRESL	FA3h	PIE3	F83h	PORTD	F63h	SSP2CON1
FE2h	FSR1H	FC2h	ADCON0	FA2h	IPR2	F82h	PORTC	F62h	SSP2CON2
FE1h	FSR1L	FC1h	ADCON1	FA1h	PIR2	F81h	PORTB	F61h	— ⁽²⁾
FE0h	BSR	FC0h	ADCON2	FA0h	PIE2	F80h	PORTA	F60h	— ⁽²⁾

- Note**
- 1: This is not a physical register.
 - 2: Unimplemented registers are read as ‘0’.
 - 3: This register is not available on 64-pin devices.