

PIC16F8X

TABLE 4-1 REGISTER FILE SUMMARY

Address	Name	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Value on Power-on Reset	Value on all other resets (Note3)
Bank 0											
00h	INDF	Uses contents of FSR to address data memory (not a physical register)								---- --	---- --
01h	TMR0	8-bit real-time clock/counter								xxxx xxxx	uuuu uuuu
02h	PCL	Low order 8 bits of the Program Counter (PC)								0000 0000	0000 0000
03h	STATUS ⁽²⁾	IRP	RP1	RP0	\overline{TO}	\overline{PD}	Z	DC	C	0001 1xxx	000q quuu
04h	FSR	Indirect data memory address pointer 0								xxxx xxxx	uuuu uuuu
05h	PORTA	—	—	—	RA4/T0CKI	RA3	RA2	RA1	RA0	---x xxxx	---u uuuu
06h	PORTB	RB7	RB6	RB5	RB4	RB3	RB2	RB1	RB0/INT	xxxx xxxx	uuuu uuuu
07h		Unimplemented location, read as '0'								---- --	---- --
08h	EEDATA	EEPROM data register								xxxx xxxx	uuuu uuuu
09h	EEADR	EEPROM address register								xxxx xxxx	uuuu uuuu
0Ah	PCLATH	—	—	—	Write buffer for upper 5 bits of the PC ⁽¹⁾					---0 0000	---0 0000
0Bh	INTCON	GIE	EEIE	TOIE	INTE	RBIE	TOIF	INTF	RBIF	0000 000x	0000 000u
Bank 1											
80h	INDF	Uses contents of FSR to address data memory (not a physical register)								---- --	---- --
81h	OPTION_REG	\overline{RBPU}	INTEDG	T0CS	T0SE	PSA	PS2	PS1	PS0	1111 1111	1111 1111
82h	PCL	Low order 8 bits of Program Counter (PC)								0000 0000	0000 0000
83h	STATUS ⁽²⁾	IRP	RP1	RP0	\overline{TO}	\overline{PD}	Z	DC	C	0001 1xxx	000q quuu
84h	FSR	Indirect data memory address pointer 0								xxxx xxxx	uuuu uuuu
85h	TRISA	—	—	—	PORTA data direction register					---1 1111	---1 1111
86h	TRISB	PORTB data direction register								1111 1111	1111 1111
87h		Unimplemented location, read as '0'								---- --	---- --
88h	EECON1	—	—	—	EEIF	WRERR	WREN	WR	RD	---0 x000	---0 q000
89h	EECON2	EEPROM control register 2 (not a physical register)								---- --	---- --
0Ah	PCLATH	—	—	—	Write buffer for upper 5 bits of the PC ⁽¹⁾					---0 0000	---0 0000
0Bh	INTCON	GIE	EEIE	TOIE	INTE	RBIE	TOIF	INTF	RBIF	0000 000x	0000 000u

Legend: x = unknown, u = unchanged. — = unimplemented read as '0', q = value depends on condition.

Note 1: The upper byte of the program counter is not directly accessible. PCLATH is a slave register for PC<12:8>. The contents of PCLATH can be transferred to the upper byte of the program counter, but the contents of PC<12:8> is never transferred to PCLATH.

2: The \overline{TO} and \overline{PD} status bits in the STATUS register are not affected by a \overline{MCLR} reset.

3: Other (non power-up) resets include: external reset through \overline{MCLR} and the Watchdog Timer Reset.