ADCTL	$1030
ADR1	$1031
ADR2	$1032
ADR3	$1033
ADR4	$1034
BAUD	$102B
CFORC	$100B
CONFIG	$103F
COPRST	$103A
DDRC	$1007
DDRD	$1009
HPRIO	$103C
INIT	$103D
OC1D	$100D
OC1M	$100C
OPTION	$1039
PACNT	$1027
PACTL	$1026
PIOC	$1002
PORTA	$1000
PORTB	$1004
PORTC	$1003
PORTCL	$1005
PORTD	$1008
PORTE	$100A
PPROG	$103B

RAM	0000
RAMEND	00FF
RES1	$1001
RES2	$1006
ROM	C000
ROMEND	FFFF
SCCR1	$102C
SCCR2	$102D
SCDR	$102F
SCSR	$102E
SPCR	$1028
SPDR	$102A
SPSR	$1029
TCNTH	$100E
TCNTL	$100F
TCTL1	$1020
TCTL2	$1021
TEST1	$103E
TFLG1	$1023
TFLG2	$1025
TIC1H	$1010
TIC1L	$1011
TIC2H	$1012
TIC2L	$1013
TIC3H	$1014
TIC3L	$1015

TMSK1	$1022
TMSK2	$1024
TOC1H	$1016
TOC1L	$1017
TOC2H	$1018
TOC2L	$1019
TOC3H	$101A
TOC3L	$101B
TOC4H	$101C
TOC4L	$101D
TOC5H	$101E
TOC5L	$101F

Table 3-1 Register and Control Bit Assignments (Sheet 1 of 2)

	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0		
$1000	Bit 7	–	–	–	–	–	–	Bit 0	PORTA	I/O Port A
$1001									Reserved	
$1002	STAF	STAI	CWOM	HNDS	OIN	PLS	EGA	INVB	PIOC	Parallel I/O Control Register
$1003	Bit 7	–	–	–	–	–	–	Bit 0	PORTC	I/O Port C
$1004	Bit 7	–	–	–	–	–	–	Bit 0	PORTB	Output Port B
$1005	Bit 7	–	–	–	–	–	–	Bit 0	PORTCL	Alternate Latched Port C
$1006									Reserved	
$1007	Bit 7	–	–	–	–	–	–	Bit 0	DDRC	Data Direction for Port C
$1008			Bit 5	–	–	–	–	Bit 0	PORTD	I/O Port D
$1009			Bit 5	–	–	–	–	Bit 0	DDRD	Data Direction for Port D
$100A	Bit 7	–	–	–	–	–	–	Bit 0	PORTE	Input Port E
$100B	FOC1	FOC2	FOC3	FOC4	FOC5				CFORC	Compare Force Register
$100C	OC1M7	OC1M6	OC1M5	OC1M4	OC1M3				OC1M	OC1 Action Mask Register
$100D	OC1D7	OC1D6	OC1D5	OC1D4	OC1D3				OC1D	OC1 Action Data Register
$100E	Bit 15	–	–	–	–	–	–	Bit 8	TCNT	Timer Counter Register
$100F	Bit 7	–	–	–	–	–	–	Bit 0		
$1010	Bit 15	–	–	–	–	–	–	Bit 8	TIC1	Input Capture 1 Register
$1011	Bit 7	–	–	–	–	–	–	Bit 0		
$1012	Bit 15	–	–	–	–	–	–	Bit 8	TIC2	Input Capture 2 Register
$1013	Bit 7	–	–	–	–	–	–	Bit 0		
$1014	Bit 15	–	–	–	–	–	–	Bit 8	TIC3	Input Capture 3 Register
$1015	Bit 7	–	–	–	–	–	–	Bit 0		
$1016	Bit 15	–	–	–	–	–	–	Bit 8	TOC1	Output Compare 1 Register
$1017	Bit 7	–	–	–	–	–	–	Bit 0		
$1018	Bit 15	–	–	–	–	–	–	Bit 8	TOC2	Output Compare 2 Register
$1019	Bit 7	–	–	–	–	–	–	Bit 0		
$101A	Bit 15	–	–	–	–	–	–	Bit 8	TOC3	Output Compare 3 Register
$101B	Bit 7	–	–	–	–	–	–	Bit 0		
$101C	Bit 15	–	–	–	–	–	–	Bit 8	TOC4	Output Compare 4 Register
$101D	Bit 7	–	–	–	–	–	–	Bit 0		
$101E	Bit 15	–	–	–	–	–	–	Bit 8	TCO5	Output Compare 5 Register
$101F	Bit 7	–	–	–	–	–	–	Bit 0		

Table 3-1 Register and Control Bit Assignments (Sheet 2 of 2)

	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0		
$1020	OM2	OL2	OM3	OL3	OM4	OL4	OM5	OL5	TCTL1	Timer Control Register 1
$1021			EDG1B	EDG1A	EDG2B	EDG2A	EDG3B	EDG3A	TCTL2	Timer Control Register 2
$1022	OC1I	OC2I	OC3I	OC4I	OC5I	IC1I	IC2I	IC3I	TMSK1	Timer Interrupt Mask Register 1
$1023	OC1F	OC2F	OC3F	OC4F	OC5F	IC1F	IC2F	IC3F	TFLG1	Timer Interrupt Flag Register 1
$1024	TOI	RTII	PAOVI	PAII			PR1	PR0	TMSK2	Timer Interrupt Mask Register 2
$1025	TOF	RTIF	PAOVF	PAIF					TFLG2	Timer Interrupt Flag Register 2
$1026	DDRA7	PAEN	PAMOD	PEDGE			RTR1	RTR0	PACTL	Pulse Accumulator Control Register
$1027	Bit 7	–	–	–	–	–	–	Bit 0	PACNT	Pulse Accumulator Count Register
$1028	SPIE	SPE	DWOM	MSTR	CPOL	CPHA	SPR1	SPR0	SPCR	SPI Control Register
$1029	SPIF	WCOL		MODF					SPSR	SPI Status Register
$102A	Bit 7	–	–	–	–	–	–	Bit 0	SPDR	SPI Data Register
$102B	TCLR		SCP1	SCP0	RCKB	SCR2	SCR1	SCR0	BAUD	SCI Baud Rate Control
$102C	R8	T8		M	WAKE				SCCR1	SCI Control Register 1
$102D	TIE	TCIE	RIE	ILIE	TE	RE	RWU	SBK	SCCR2	SCI Control Register 2
$102E	TRDE	TC	RDRF	IDLE	OR	NF	FE		SCSR	SCI Status Register
$102F	Bit 7	–	–	–	–	–	–	Bit 0	SCDR	SCI Data (Read RDR, Write TDR)
$1030	CCF		SCAN	MULT	CD	CC	CB	CA	ADCTL	A/D Control Register
$1031	Bit 7	–	–	–	–	–	–	Bit 0	ADR1	A/D Result Register 1
$1032	Bit 7	–	–	–	–	–	–	Bit 0	ADR2	A/D Result Register 2
$1033	Bit 7	–	–	–	–	–	–	Bit 0	ADR3	A/D Result Register 3
$1034	Bit 7	–	–	–	–	–	–	Bit 0	ADR4	A/D Result Register 4
$1035 thru $1038									Reserved	
$1039	ADPU	CSEL	IRQE	DLY	CME		CR1	CR0	OPTION	System Configuration Options
$103A	Bit 7	–	–	–	–	–	–	Bit 0	COPRST	Arm/Reset COP Timer Circuitry
$103B	ODD	EVEN		BYTE	ROW	ERASE	EELAT	EEPGM	PPROG	EEPROM Program Control Register
$103C	RBOOT	SMOD	MDA	IRV	PSEL3	PSEL2	PSEL1	PSEL0	HPRIO	Highest Priority I-Bit Int and Misc
$103D	RAM3	RAM2	RAM1	RAM0	REG3	REG2	REG1	REG0	INIT	RAM and I/O Mapping Register
$103E	TILOP		OCCR	CBYP	DISR	FCM	FCOP	TCON	TEST1	Factory TEST Control Register
$103F	–	–	–	–	NOSEC	NOCOP	ROMON	EEON	CONFIG	COP, ROM, and EEPROM Enables