

APPENDIX A MCF5206 MEMORY MAP SUMMARY

This section is a summary chart of the entire memory map for the MCF5206.

Table A-1. MCF5206 User Programming Model

ADDRESS	NAME	WIDTH	DESCRIPTION	RESET VALUE	ACCESS
MOVEC with \$COF	MBAR	32	Module Base Address Register	uninitialized (except V=0)	W
MBAR + \$003	SIMR	8	SIM Configuration Register	\$C0	R/W
MBAR + \$014	ICR1	8	Interrupt Control Register 1 - External IRQ1/IPL1	\$04	R/W
MBAR + \$015	ICR2	8	Interrupt Control Register 2 - External IPL2	\$08	R/W
MBAR + \$016	ICR3	8	Interrupt Control Register 3 - External IPL3	\$0C	R/W
MBAR + \$017	ICR4	8	Interrupt Control Register 4 - External IRQ4/IPL4	\$10	R/W
MBAR + \$018	ICR5	8	Interrupt Control Register 5 - External IPL5	\$14	R/W
MBAR + \$019	ICR6	8	Interrupt Control Register 6 - External IPL6	\$18	R/W
MBAR + \$01A	ICR7	8	Interrupt Control Register 7 - External IRQ7/IPL7	\$1C	R/W
MBAR + \$01B	ICR8	8	Interrupt Control Register 8 - SWT	\$1C	R/W
MBAR + \$01C	ICR9	8	Interrupt Control Register 9 - Timer 1 Interrupt	\$80	R/W
MBAR + \$01D	ICR10	8	Interrupt Control Register 10 - Timer 2 Interrupt	\$80	R/W
MBAR + \$01E	ICR11	8	Interrupt Control Register 11 - MBUS Interrupt	\$80	R/W
MBAR + \$01F	ICR12	8	Interrupt Control Register 12 - UART 1 Interrupt	\$00	R/W
MBAR + \$020	ICR13	8	Interrupt Control Register 13 - UART2 Interrupt	\$00	R/W
MBAR + \$036	IMR	16	Interrupt Mask Register	\$3FFE	R/W
MBAR + \$03A	IPR	16	Interrupt Pending Register	\$0000	R
MBAR + \$040	RSR	8	Reset Status Register	\$80 or \$20	R/W
MBAR + \$041	SYPCR	8	System Protection Control Register	\$00	R/W
MBAR + \$042	SWIVR	8	Software Watchdog Interrupt Vector Register	\$0F	R/W
MBAR + \$043	SWSR	8	Software Watchdog Service Register	uninitialized	W
MBAR + \$046	DCRR	16	DRAM Controller Refresh	Master Reset: \$0000 Normal Reset: uninitialized	R/W
MBAR + \$04A	DCTR	16	DRAM Controller Timing Register	Master Reset: \$0000 Normal Reset: uninitialized	R/W
MBAR + \$04C	DCAR0	16	DRAM Controller Address Register - Bank 0	Master Reset: uninitialized Normal Reset: uninitialized	R/W
MBAR + \$050	DCMR0	32	DRAM Controller Mask Register - Bank 0	Master Reset: uninitialized Normal Reset: uninitialized	R/W
MBAR + \$057	DCCR0	8	DRAM Controller Control Register- Bank 0	Master Reset: \$00 Normal Reset: \$00	R/W
MBAR + \$058	DCAR1	16	DRAM Controller Address Register - Bank 1	Master Reset: uninitialized Normal Reset: uninitialized	R/W

Appendix A

ADDRESS	NAME	WIDTH	DESCRIPTION	RESET VALUE	ACCESS
MBAR + \$05C	DCMR1	32	DRAM Controller Mask Register - Bank 1	Master Reset: uninitialized Normal Reset: uninitialized	R/W
MBAR + \$063	DCCR1	8	DRAM Controller Control Register - Bank 1	Master Reset: \$00 Normal Reset: \$00	R/W
MBAR + 64	CSAR0	16	Chip-Select Address Register - Bank 0	0000	R/W
MBAR + 68	CSMR0	32	Chip-Select Mask Register - Bank 0	00000000	R/W
MBAR + \$06E	CSCR0	16	Chip-Select Control Register - Bank 0	3C1F, 3C5F, 3C9F, 3CDF, 3D1F, 3D5F, 3D9F, or 3DDF AAs _{et} byIRQ7 at _{reset} PSt _{et} byIRQ4 at _{reset} PSt _{et} byIRQ1 at _{reset}	R/W
MBAR + \$070	CSAR1	16	Chip-Select Address Register - Bank 1	uninitialized	R/W
MBAR + \$074	CSMR1	32	Chip-Select Mask Register - Bank 1	uninitialized	R/W
MBAR + \$07A	CSCR1	16	Chip-Select Control Register - Bank 1	uninitialized (except BRST=ASET=WRAH=RDAH= WR=RD=0)	R/W
MBAR + \$07C	CSAR2	16	Chip-Select Address Register - Bank 2	uninitialized	R/W
MBAR + \$080	CSMR2	32	Chip-Select Mask Register - Bank 2	uninitialized	R/W
MBAR + \$086	CSCR2	16	Chip-Select Control Register - Bank 2	uninitialized (except BRST=ASET=WRAH=RDAH= WR=RD=0)	R/W
MBAR + \$088	CSAR3	16	Chip-Select Address Register - Bank 3	uninitialized	R/W
MBAR + \$08C	CSMR3	32	Chip-Select Mask Register - Bank 3	uninitialized	R/W
MBAR + \$092	CSCR3	16	Chip-Select Control Register - Bank 3	uninitialized (except BRST=ASET=WRAH=RDAH= WR=RD=0)	R/W
MBAR + \$094	CSAR4	16	Chip-Select Address Register - Bank 4	uninitialized	R/W
MBAR + \$098	CSMR4	32	Chip-Select Mask Register - Bank 4	uninitialized	R/W
MBAR + \$09E	CSCR4	16	Chip-Select Control Register - Bank 4	uninitialized (except BRST=ASET=WRAH=RDAH= WR=RD=0)	R/W
MBAR + \$0A0	CSAR5	16	Chip-Select Address Register - Bank 5	uninitialized	R/W
MBAR + \$0A4	CSMR5	32	Chip-Select Mask Register - Bank 5	uninitialized	R/W
MBAR + \$0AA	CSCR5	16	Chip-Select Control Register - Bank 5	uninitialized (except BRST=ASET=WRAH=RDAH= WR=RD=0)	R/W
MBAR + \$0AC	CSAR6	16	Chip-Select Address Register - Bank 6	uninitialized	R/W
MBAR + \$0B0	CSMR6	32	Chip-Select Mask Register - Bank 6	uninitialized	R/W
MBAR + \$0B6	CSCR6	16	Chip-Select Control Register - Bank 6	uninitialized (except BRST=ASET=WRAH=RDAH= WR=RD=0)	R/W
MBAR + \$0B8	CSAR7	16	Chip-Select Address Register - Bank 7	uninitialized	R/W
MBAR + \$0BC	CSMR7	32	Chip-Select Mask Register - Bank 7	uninitialized	R/W
MBAR + \$0C2	CSCR7	16	Chip-Select Control Register - Bank 7	uninitialized (except BRST=ASET=WRAH=RDAH= WR=RD=0)	R/W
MBAR + \$0C6	DMCR	16	Default Memory Control Register	0000	R/W

ADDRESS	NAME	WIDTH	DESCRIPTION	RESET VALUE	ACCESS
MBAR + \$0CB	PAR	8	Pin Assignment Register	\$00	R/W
MBAR+\$100	TMR1	16	Timer1 Mode Register	\$0000	R/W
MBAR+\$104	TRR1	16	Timer1 Reference Register	\$FFFF	R/W
MBAR+\$108	TCR1	16	Timer1 Capture Register	\$0000	R
MBAR+\$10C	TCN1	16	Timer1 Counter	\$0000	R/W
MBAR+\$111	TER1	8	Timer1 Event Register	\$00	R/W
MBAR+\$120	TMR2	16	Timer2 Mode Register	\$0000	R/W
MBAR+\$124	TRR2	16	Timer2 Reference Register	\$FFFF	R/W
MBAR+\$128	TCR2	16	Timer2 Capture Register	\$0000	R
MBAR+\$12C	TCN2	16	Timer2 Counter	\$0000	R/W
MBAR+\$131	TER2	8	Timer2 Event Register	\$00	R/W
MBAR + \$140	UMR1,2	8	UART1 Mode Registers	\$00	R/W
MBAR+\$144	USR/ UCSR	8	UART1 Status Register (R/W=1)/ UART1 Clock- Select Register (R/W=0)	USR=\$00; UCSR=\$DD	USR=R; UC- SR=W
MBAR+\$148	UCR	8	UART1 Command Register	\$00	W
MBAR+\$14C	URB/UTB	8	UART1 Receive Buffer (R/W=1)/ UART1 Transmit Buffer (R/W=0)	URB=\$FF; UTB=\$00	URB=R; UTB=W
MBAR+\$150	UIPCR/ UACR	8	UART Input Port Change Register (R/w=1)/ UART1 Auxiliary Control Register (R/W=0)	UIPCR=\$0F; UACR=\$00	UIPCR=R; UACR=W;
MBAR+\$154	UISR/ UIMR	8	UART1 Interrupt Status Register (R/W=1); UART1 Interrupt Mask Register (R/W=0)	UISR=\$00; UIMR=\$00	UISR=R; UIMR=W
MBAR+\$158	UBG1	8	UART1 Baud Rate Generator Prescale MSB	uninitialized	W
MBAR+\$15C	UBG2	8	UART1 Baud Rate Generator Prescale LSB	uninitialized	W
MBAR+\$170	UIVR	8	UART1 Interrupt Vector Register	\$0F	R/W
MBAR+\$174	UIP	8	UART1 Input Port Register	\$FF	R
MBAR+\$178	UOP1	8	UART1 Output Port Bit Set CMD	UOP1[7:1]= undefined; UOP1=0	W
MBAR+\$17C	UOP0	8	UART1 Output Port Bit Reset CMD	uninitialized	W
MBAR+\$180	UMR1,2	8	UART2 Mode Registers	\$00	R/W
MBAR+\$184	USR/ UCSR	8	UART2 Status Register (R/W=1)/ UART1 Clock- Select Register (R/W=0)	USR=\$00; UCSR=\$DD	USR=R; UC- SR=W
MBAR+\$188	UCR	8	UART2 Command Register	\$00	W
MBAR+\$18C	URB/UTB	8	UART2 Receive Buffer (R/W=1)/ UART1 Transmit Buffer (R/W=0)	URB=\$FF; UTB=\$00	URB=R; UTB=W
MBAR+\$190	UIPCR/ UACR	8	UART2 Input Port Change Register (R/w=1)/ UART1 Auxiliary Control Register (R/W=0)	UIPCR=\$0F; UACR=\$00	UIPCR=R; UACR=W;
MBAR+\$194	UISR/ UIMR	8	UART2 Interrupt Status Register (R/W=1); UART1 Interrupt Mask Register (R/W=0)	UISR=\$00; UIMR=\$00	UISR=R; UIMR=W
MBAR+\$198	UBG1	8	UART2 Baud Rate Generator Prescale MSB	uninitialized	R/W
MBAR+\$19C	UBG2	8	UART2 Barud Rate Generator Prescale LSB	uninitialized	R/W
MBAR+\$1B0	UIVR	8	UART2 Interrupt Vector Register	\$0F	R/W
MBAR+\$1B4	UIP	8	UART2 Input Port Register	\$FF	R
MBAR+\$1B8	UOP1	8	UART2 Output Port Bit Set CMD	UOP1[7:1]= undefined; UOP1=0	W
MBAR+\$1BC	UOP0	8	UART2 Output Port Bit Reset CMD	uninitialized	W
MBAR + \$1C5	PPDDR	8	Port A Data Direction Register	\$00	R/W
MBAR + \$1C9	PPDAT	8	Port A Data Register	\$00	R/W
MBAR+\$1E0	MADR	8	M-Bus Address Register	\$00	R/W

Appendix A

ADDRESS	NAME	WIDTH	DESCRIPTION	RESET VALUE	ACCESS
MBAR+\$1E4	MFDR	8	M-Bus Frequency Divider Register	\$00	R/W
MBAR+\$1E8	MBCR	8	M-Bus Control Register	\$00	R/W
MBAR+\$1EC	MBSR	8	M-Bus Status Register	\$00	R/W
MBAR+\$1F0	MBDR	8	M-Bus Data I/O Register	\$00	R/W