

## Fixed Addresses

Address	R/W	Description
200H	W	Game Port Trigger
200H	R	Game Port Status
201H	W	Game Port Trigger
201H	R	Game Port Status
202H-207H	-	Game Port
388H	W	FM Music Register Address Port
388H	R	FM Music Status Port
389H	W	FM Music Data Port
38AH-39FH	-	Reserved

## ADDRESSES RELATIVE TO BASE PORT ADDRESS 220H OR 240H

Offset Address	RW	Description
00H	W	FM Music Register Address Port
00H	R	FM Music Register Status Port
01H	W	FM Music Data Port
02H	W	Advanced FM Music Status Port
02H	R	Advanced FM Music Register Address Port
03H	W	Advanced FM Music Data Port
04H	W	Mixer Chip register Address Port
05H	W	Mixer Chip Data Port
05H	R	Mixer chip Data Port
06H	W	DSP Reset
07H	-	Reserved
08H	W	FM Music Register Address Port
08H	R	FM Music Status Port

09H	W	FM Music Data Port
0AH	R	DSP Read Data Port
0BH	-	Reserved
0CH	W	DSP Write Data or Command
0CH	R	DSP Write Buffer Status (Bit 7)
0DH	W	Reserved
0EH	R	DSP Data Available Status (Bit 7)
0FH-13H	-	Reserved

CD-ROM ADDRESSES RELATIVE TO CD-ROM PORT ADDRESS

ADDRESS	R/W	DESCRIPTION
0	R	Data Status
1	R	UART Received
2	R	FIFO
3	R	Drive Status
4	W	Data Control
5	W	UART Transmit
6	W	Test Clock
7	W	Test Control

MIXER CHIP ADDRESS MAP

INDEX	D7	D6	D5	D4	D3	D2	D1	D0
00H	DATA RESET REPORT							-
02H	-	-	-	-	MAS-VOL-BOTH		-	-
04H	VOC-VOL-LEFT			-	VOC-VOL-RIGHT		-	-
06H	-	FMLC	FMRC	-	FM-VOL-BOTH		-	-
08H	-	-	-	-	-	-	-	-
0AH	-	-	-	-	-	MIC-VOL		-
0CH	-	-	AMFI	-	ADC		-	-

0EH	-	-	DNFI	-	-		VSTC	-
20H	-	-	-	-	LSW	CSW	MSW	-
22H	MAS-VOL-LEFT			-	MAS-VOL-RIGHT			-
24H	-	-	-	-	-	-	-	-
26H	FM-VOL-LEFT			-	FM-VOL-RIGHT			-
28H	CD-VOL-LEFT			-	CD-VOL-RIGHT			-
2AH	-	-	-	-	-	-	-	-
2CH	-	-	-	-	-	-	-	-
2EH	LIN-VOL-LEFT			-	LIN-VOL-RIGHT			

MIDI IMPLEMENTATION TABLE

FUNCTION		TRANSMITTED	RECOGNIZED	REMARKS
BASIC CHANNEL	Default Changed		1-16 1-16	
MODE	Default Messages Altered	.....	Mode 3 X X	
NOTE NUMBER	True Voice	.....	0-127 12-96	
VELOCITY	Note On Note Off		0 0	
AFTER TOUCH	Keys Channel		X X	
PITCH BEND			0	
CONTROL CHANGE	71,064		0 0 0	Volume Pan Damper Pedal
PROGRAM CHANGE	True Number	.....	0-255 0-255	
SYSTEM EXCLUSIVE			X	
SYSTEM COMMON	Song Position Song Select Tune Request		X X X	

SYSTEM	Clock		X	
REAL TIME	Commands		X	
AUX	Local On/Off		X	
MESSAGES	All Notes Off		0	
	Active Sensing		X	
	System Reset		X	
NOTES				
Mode 1: Omni On, Poly		Mode 2: Omni On, Mono	0: Yes	
Mode 3: Omni Off, Poly		Mode 4: Omni Off, Mono	X: No	

(smc-12/02/93)