

MIDI Control Change Implementation Chart

LFO	Control Change	Function	Value		
Source	68	Triangle	0		
		Square	16		
		Saw	32		
		Ramp	48		
		5	64		
		6	80		
Source 5	104	Filter Env.	0		
		S&H	64		
Source 6	105	OSC2	0		
		Noise	64		
Destination 1	69	Pitch	0		
		Filter	16		
		Wave	32		
		OSC2	48		
Destination 2	106	None	0		
		Pitch	25		
		Filter	50		
		Wave	75		
		OSC2	100		
Retrigger	93	Off	0		
		On	43		
		On when played Legato	86		
Clock Source	102	Internal	0		
		MIDI	64		
Amount	8		0 ->127		
Mod Wheel	1		0 ->127		
Rate	3		0 ->127		
Clock Divisions	103	0 → 1/48	36 → 1/8	72 → 1/2	108 → 1,75
		6 → 1/32	42 → 1/6	78 → 2/3	114 → 2
		12 → 1/24	48 → 3/16	84 → 3/4	120 → 3
		18 → 1/16	54 → 1/4	90 → 1	126 → 4
		24 → 1/12	60 → 1/3	96 → 1,25	
		30 → 3/32	66 → 3/8	102 → 1,5	

OSC	Control Change	Function	Value
OSC 1 Octave	74	16	16
		8	32
		4	48
		2	64
OSC 2 Octave	75	16	16
		8	32
		4	48
		2	64
OSC 1 Wave	9	Triangle	0 → 5
		Shark	6 → 42
		Saw	43 → 88
		Square	89 → 127
OSC 2 Wave	11	35 % Rectangle	→ 107
		15%Rectangle	→ 123
OSC 1 Level	15	0 → 127	0 → 127
OSC 2 Level	16	0 → 127	0 → 127
OSC Sync	77	On	0
		Off	64
OSC 2 Frequency	10	+7 → 127	+2 → 82
		+6 → 118	+1 → 73
		+5 → 109	Unison → 64
		+4 → 100	-1 → 54
		+3 → 91	-2 → 45
			-3 → 36
			-4 → 26
			-5 → 17
			-6 → 8
			-7 → 0

Pitch Wheel Up amount	107	0 → 12	0 → 96
Pitch Wheel Down Amount	108	0 → 12	0 → 96
Tuning Scale	113	0 → 31, Global	0 → 32

FILTER	Control Change	Function / Value		Note
Cut Off	19	0 → 127		
Resonance	21	0 → 127		
Key Tracking	22	0 → 127		
Env Amount	27	0 → 127		Bipolar 0 → 64
Overload	18	0 → 127		
Poles	109	1	0	
		2	32	
		3	64	
		4	48	

ENVELOPE	Control Change	Function / Value	
Attack Amp	28	0 → 127	
Decay Amp	29	0 → 127	
Sustain Amp	30	0 → 127	
Release Amp	31	0 → 127	
Attack Filter	23	0 → 127	
Decay Filter	24	0 → 127	
Sustain Filter	25	0 → 127	
Release Filter	26	0 → 127	
Release On / Off	88	On	0
		Off	64

ARPEGGIATOR	Control Change	Function	Value		
On / Off	90	On	0		
		Off	64		
Latch	91	On	0		
		Off	64		
Gate Length	95	0,5	0		
		1	32		
		>1	64		
		Global	96		
Octaves	116	+3 → 109	-1 → 38		
		+2 → 90	-2 → 19		
		+1 → 71	-3 → 0		
		0 → 57			
Note Order	117	Up	0		
		Down	43		
		Entered	86		
Loop	118	Loop	0		
		Back-Forth	43		
		Once	86		
Clock Source	114	Internal	0		
		MIDI	43		
		Global	86		
Clock Divisions	115	Global → 127	1,25 → 96	1/3 → 60	1/12 → 24
		4 → 126	1 → 90	1/4 → 54	1/16 → 18
		3 → 120	3/4 → 84	3/16 → 48	1/24 → 12
		2 → 114	2/3 → 78	1/6 → 42	1/32 → 6
		1,75 → 108	1/2 → 72	1/8 → 36	1/48 → 0
		1,5 → 102	3/8 → 66	3/32 → 30	

OTHER	Control Change	Function		Value	
Volume	7	0 → 127		0 → 127	
Legato	112	On		0	
		Off		43	
		Env Reset		86	
Glide On / Off	94	On		0	
		Off		64	
Glide Rate	5	0 → 127		0 → 127	
Note Priority	111	Global		0	
		Low		32	
		High		64	
		Last		96	
Keyboard Octave	89	-2		0	
		-1		16	
		0		32	
		+1		48	
		+2		64	
Velocity to Volume	92	8 times 0 to 15		0 → 15	
Velocity to Filter	110	+8 → 117	+3 → 82	-2 → 47	-7 → 12
		+7 → 110	+2 → 75	-3 → 40	-8 → 0
		+6 → 103	+1 → 68	-4 → 33	
		+5 → 96	0 → 61	-5 → 26	
		+4 → 89	-1 → 54	-6 → 19	

MIDI Implementation Chart

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Moog Music
Slim Phatty Analog Synthesizer

Date: 10/1/10
Version 1.0

FUNCTION	TRANSMITTED	RECOGNIZED	REMARKS
Basic channel Default Changed	I 1-16, OFF	I 1-16, OFF	User selectable
Mode Default Messages Altered	3 X X	4* X X	* Note priority is user selectable
Note number	X	0-127	
Velocity Note ON Note OFF	X X	O X	
After touch	X	X	
Pitch Bend	X	O	Programmable from 0 to ± 12 semitones
Control change	O	O	1, 3-5, 6, 7, 9-11, 15, 16, 18, 19, 21-31, 33, 36, 53, 65, 68, 69, 74, 75, 77, 88, 90, 91, 102-119
Program change True Number	O 00 - 99	O 00 - 99	
System Exclusive	O	O	
System Commands Song Position Song Selection Tune	X X X	X X X	
System Real Time Clock Commands	X X	O O	Receives Timing Clock Receives START, CONTINUE & STOP
System Real Time Clock Commands	X X	O O	Receives Timing Clock Receives START, CONTINUE & STOP
Aux messages Local Off All Notes Off Active Sense System Reset	X O X X	X O X X	

Legend: O = Yes
X = No

Modes: Mode 1 - Omni On, Poly
Mode 2 - Omni On, Mono

Mode 3 - Omni Off, Poly
Mode 4 - Omni Off, Mono