

Function...	Transmitted	Recognized	Remarks
Basic Channel	1-16 *1	1-16 *1	
Mode			
Note Number	0-127	0-127	
Velocity : Note On : Note Off	o x	o x	
After Touch	x	x	
Pitch Bend	o	o	
Control Change	1 o	o	MODULATION
	3 o	o	LFO RATE*1
	5 o	o	PORTAMENTO TIME
	9 o	o	LFO DELAY TIME*1
	11 x	o	EXPRESSION PEDAL
	12 o	o	LFO WAVE*1
	13 o	o	VCO MOD LFO MOD*1
	14 o	o	VCO MOD ENV MOD*1
	15 o	o	VCO MOD FREQ MOD*1
	16 o	o	VCO MOD PWM*1
	17 o	o	VCO MOD PWM SEL*1
	18 o	o	VCO-1 CROSS MOD*1
	19 o	o	VCO-1 RANGE*1
	20 o	o	VCO-1 WAVE*1
	21 o	o	VCO-2 SYNC*1
	22 o	o	VCO-2 RANGE*1
	23 o	o	VCO-2 TUNE*1
	24 o	o	VCO-2 WAVE*1
	25 o	o	SOURCE MIX*1
	26 o	o	HPF CUTOFF*1
	27 o	o	VCF SLOPE*1
	28 o	o	VCF ENV MOD*1
	29 o	o	VCF ENV MOD SEL*1
	30 o	o	VCF LFO MOD*1
	31 o	o	VCF KEY FOLLOW*1
	35 o	o	VCA LEVEL*1
	46 o	o	VCA LFO MOD*1
	47 o	o	ENV-1 ATTACK*1
	52 o	o	ENV-1 DECAY*1
	53 o	o	ENV-1 SUSTAIN*1
54 o	o	ENV-1 RELEASE*1	
55 o	o	ENV-1 POLARITY*1	
56 o	o	ENV-2 SUSTAIN*1	
57 o	o	ENV-2 KEY FOLLOW*1	
64 x	o	HOLD	
65 o	o	PORTAMENTO	
71 o	o	VCF RESONANCE*1	
72 o	o	ENV-2 RELEASE*1	
73 o	o	ENV-2 ATTACK*1	
74 o	o	VCF CUTOFF*1	
75 o	o	ENV-2 DECAY*1	
80 o	o	DUAL SWITCH	
81 o	o	CURRENT PART	
82 o	o	DELAY TIME	
83 o	o	DELAY FEEDBACK	
86 o	o	ASSIGN MODE	
87 o	o	BEND RANGE*1	
91 o	o	DELAY LEVEL	
Program Change	0-71	0-71	0-63: Patch 64-71: Patch Preset
System Exclusive	x	x	
System Common : Song Position : Song Select : Tune Request	x x x	x x x	
System Real Time : Clock : Start : Continue : Stop	o o x o	o o o o	
Aux Messages : All Sound Off : Reset All Controllers : Local On/Off : All Notes Off : Omni Mode Off : Omni Mode On : Mono Mode On : Mono Mode Off : Active Sensing : System Reset	x x x x x x x x x x	o o x o o o o o o x	*2 *2 *2 *2 *2
Notes	*1 The control changes of the Lower part are transmitted and received on the channel that is one higher (+1) than the specified channel. However, if channel 16 is specified, the Lower part uses channel 1. *2 Same process as All Note Off.		

Mode 1: OMNI ON, POLY Mode 2: OMNI ON, MONO
Mode 3: OMNI OFF, POLY Mode 4: OMNI OFF, MONO

O : Yes
X : No

MIDI Implementation Chart

Function...	Transmitted	Recognized	Remarks
Basic Channel	1	x	
Mode : Default	x	x	
Note Number	48-60	x	
Velocity : Note On	x	x	
: Note Off	x	x	
After Touch	x	x	
Pitch Bend	o	x	
Control Change	1 o	x	MODULATION
	3 o	x	VCF CUTOFF
	9 o	x	VCF RESONANCE
	16 o	x	MIXER VCO1
	17 o	x	MIXER VCO2
	22 o	x	VCO ENV MOD
	26 o	x	VCO LFO MOD
	27 o	x	LFO DELAY TIME
	28 o	x	VCF LFO MOD
	29 o	x	LFO RATE
	30 o	x	VCA LFO MOD
	35 o	x	LFO WAVEFORM
	46 o	x	VCO1 WAVE
	47 o	x	VCO1 RANGE
	50 o	x	VCO PWM DEPTH
	51 o	x	VCF ENV MOD SRC
	52 o	x	VCO1 CROSS MOD
	56 o	x	VCO2 FINE TUNE
	59 o	x	ENV1 POLARITY
	60 o	x	VCO PWM SOURCE
61 o	x	VCO2 WAVE	
62 o	x	VCO2 RANGE	
79 o	x	HPF CUTOFF	
81 o	x	VCF ENV MOD	
82 o	x	VCF KEY FOLLOW	
83 o	x	ENV1 ATTACK	
84 o	x	ENV1 DECAY	
85 o	x	ENV1 SUSTAIN	
86 o	x	ENV1 RELEASE	
88 o	x	ENV2 KEYFOLLOW	
89 o	x	ENV2 ATTACK	
90 o	x	ENV2 DECAY	
96 o	x	ENV2 SUSTAIN	
97 o	x	ENV2 RELEASE	
103 o	x	VCO1 MOD DEST	
104 o	x	VCO2 MOD DEST	
108 o	x	VCF LFO SLOPE	
110 o	x	VCA LEVEL	
112 o	x	VCO2 SYNC	
Program Change	x	x	
System Exclusive	x	x	
System Common : Song Position	x	x	
: Song Select	x	x	
: Tune Request	x	x	
System Real Time : Clock	x	x	
: Start	x	x	
: Continue	x	x	
: Stop	x	x	
Aux Messages	: All Sound Off	x	
	: Reset All Controllers	x	
	: Local On/Off	x	
	: All Notes Off	x	
	: Omni Mode Off	x	
	: Omni Mode On	x	
	: Mono Mode On	x	
	: Mono Mode Off	x	
	: Active Sensing	x	
: System Reset	x		
Notes			

Mode 1: OMNI ON, POLY Mode 2: OMNI ON, MONO
 Mode 3: OMNI OFF, POLY Mode 4: OMNI OFF, MONO

O : Yes
 X : No