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GM



General MIDI¹⁾

1991 MIDI (MMA) MIDI (JMSC)가

	GM level 1			
	24 .(, 16 8). Velocity			
	16 가 , 가 10 ()			
	128 MIDI (GM 1 Instrument Patch Map) 47 (GM 1 Percussion Key Map)			
	CC# 1, 7, 10, 11, 64, 100, 101, 121 123 . Channel Pressure Pitchbend			
	SysEX Date Entry(CC#6, CC#38) RPN(CC#100, CC#101)			

GM 2

1999 GM 1 가 가 , GM 2 가 .

GM 2

- – 32
- – 2 (10/11)
- 16384 가 128 .
- 9 GS 가 .
- “ 1 – 10 ” 자C#

	GM	GS	XG	XG2	XG3	GM2	XGlite
	1991	1991	1994	1997	1998	1999	2002
	JMSC, MMA	Roland	Yamaha	Yamaha	Yamaha	MMA	Yamaha
(+)	16+8	16+8	32	64	128	16+16	32
MIDI (+)	15+1	15+1	16	32	64	14+2	16

Program

GM 1

Piano

1	Acoustic Grand Piano	
2	Bright Acoustic Piano	
3	Electric Grand Piano	
4	Honky-tonk Piano	
5	Electric Piano 1	1
6	Electric Piano 2	2
7	Harpsichord	
8	Clavinet	

Chromatic Percussion

9	Celesta	
10	Glockenspiel	
11	Music box	
12	Vibraphone	
13	Marimba	
14	Xylophone	
15	Tubular Bell	
16	Dulcimer	

Organ

17	Drawbar Organ	
18	Percussive Organ	
19	Rock Organ	
20	Church organ	
21	Reed organ	
22	Accordion	
23	Harmonica	
24	Tango Accordion	

Guitar

25	Acoustic Guitar (nylon)	()
26	Acoustic Guitar (steel)	()
27	Electric Guitar (jazz)	()
28	Electric Guitar (clean)	()
29	Electric Guitar (muted)	()
30	Overdrive Guitar	()
31	Distortion Guitar	()
32	Guitar harmonics	

Bass

33	Acoustic Bass	
34	Electric Bass (finger)	(가)
35	Electric Bass (pick)	()
36	Fretless Bass	
37	Slap Bass 1	1
38	Slap Bass 2	2
39	Synth Bass 1	1
40	Synth Bass 2	2

Strings

41	Violin	
42	Viola	
43	Cello	
44	Double bass	
45	Tremolo Strings	
46	Pizzicato Strings	
47	Orchestral Harp	
48	Timpani	

Ensemble

49	String Ensemble 1	1
50	String Ensemble 2	2
51	Synth Strings 1	1
52	Synth Strings 2	2
53	Voice Aahs	' ~'
54	Voice Oohs	' ~'
55	Synth Voice	
56	Orchestra Hit	

Brass

57	Trumpet	
58	Trombone	
59	Tuba	
60	Muted Trumpet	
61	French horn	
62	Brass Section	
63	Synth Brass 1	1
64	Synth Brass 2	2

Reed

65	Soprano Sax	
66	Alto Sax	
67	Tenor Sax	
68	Baritone Sax	
69	Oboe	

70	English Horn	
71	Bassoon	
72	Clarinet	

Pipe

73	Piccolo	
74	Flute	
75	Recorder	
76	Pan Flute	
77	Blown Bottle	
78	Shakuhachi	
79	Whistle	
80	Ocarina	

Synth Lead

81	Lead 1 (square)	1 ()
82	Lead 2 (sawtooth)	2 ()
83	Lead 3 (calliope)	3 ()
84	Lead 4 (chiff)	4 ()
85	Lead 5 (charang)	5 ()
86	Lead 6 (voice)	6 ()
87	Lead 7 (fifths)	7 (5)
88	Lead 8 (bass + lead)	8 (+)

Synth Pad

89	Pad 1 (new age)	1 ()
90	Pad 2 (warm)	2 ()
91	Pad 3 (polysynth)	3 ()
92	Pad 4 (choir)	4 ()
93	Pad 5 (bowed)	5 ()
94	Pad 6 (metallic)	6 ()
95	Pad 7 (halo)	7 ()
96	Pad 8 (sweep)	8 ()

Synth Effects

97	FX 1 (rain)	1 ()
98	FX 2 (soundtrack)	2 ()
99	FX 3 (crystal)	3 ()
100	FX 4 (atmosphere)	4 ()
101	FX 5 (brightness)	5 ()
102	FX 6 (goblins)	6 ()
103	FX 7 (echoes)	7 ()
104	FX 8 (sci-fi)	8 ()

Ethnic

105	Sitar	
-----	-------	--

106	Banjo	
107	Shamisen	
108	Koto	
109	Kalimba	
110	Bagpipe	
111	Fiddle	
112	Shanai	

Percussive

113	Tinkle Bell	
114	Agogo	
115	Steel Drums	
116	Woodblock	
117	Taiko Drum	
118	Melodic Tom	
119	Synth Drum	
120	Reverse Cymbal	

Sound effects

121	Guitar Fret Noise	
122	Breath Noise	
123	Seashore	
124	Bird Tweet	
125	Telephone Ring	
126	Helicopter	
127	Applause	
128	Gunshot	

Drum kit

10 Drum kit . Drum Mapping .

- 35 Acoustic Bass Drum
- 36 Electric Bass Drum
- 37 Side Stick
- 38 Acoustic Snare
- 39 Hand Clap
- 40 Electric Snare
- 41 Low Floor Tom
- 42 Closed Hi-hat
- 43 High Floor Tom
- 44 Pedal Hi-hat
- 45 Low Tom
- 46 Open Hi-hat
- 47 Low-Mid Tom
- 48 High-Mid Tom

- 49 Crash Cymbal 1
- 50 High Tom
- 51 Ride Cymbal 1
- 52 Chinese Cymbal
- 53 Ride Bell
- 54 Tambourine
- 55 Splash Cymbal
- 56 Cowbell
- 57 Crash Cymbal 2
- 58 Vibraslap
- 59 Ride Cymbal 2
- 60 High Bongo
- 61 Low Bongo
- 62 Mute High Conga
- 63 Open High Conga
- 64 Low Conga
- 65 High Timbale
- 66 Low Timbale
- 67 High Agogô
- 68 Low Agogô
- 69 Cabasa
- 70 Maracas
- 71 Short Whistle
- 72 Long Whistle
- 73 Short Guiro
- 74 Long Guiro
- 75 Claves
- 76 High Woodblock
- 77 Low Woodblock
- 78 Mute Cuica
- 79 Open Cuica
- 80 Mute Triangle
- 81 Open Triangle

GM 2

GM 1	Program Change	0~127	128	128	
	, GM 2	Program Change	Bank	256	
	. CC#0 (Bank Select MSB)	121	CC#32 (Bank Select LSB)		Bank
	.				

Piano

Patch Number	Bank Number	Instrument Name
1	0	Acoustic Grand Piano

Patch Number	Bank Number	Instrument Name
	1	Wide Acoustic Grand
	2	Dark Acoustic Grand
2	0	Bright Acoustic Piano
	1	Wide Bright Acoustic
3	0	Electric Grand Piano
	1	Wide Electric Grand
4	0	Honky-tonk Piano
	1	Wide Honky-tonk
5	0	Rhodes Piano
	1	Detuned Electric Piano 1
	2	Electric Piano 1 Variation
	3	60's Electric Piano
6	0	Chorused Electric Piano
	1	Detuned Electric Piano 2
	2	Electric Piano 2 Variation
	3	Electric Piano Legend
	4	Electric Piano Phase
7	0	Harpsichord
	1	Coupled Harpsichord
	2	Wide Harpsichord
	3	Open Harpsichord
8	0	Clavinet
	1	Pulse Clavinet

Chromatic Percussion

Patch Number	Bank Number	Instrument Name
9	0	Celesta
10	0	Glockenspiel
11	0	Music Box
12	0	Vibraphone
	1	Wet Vibraphone
13	0	Marimba
	1	Wide Marimba
14	0	Xylophone
15	0	Tubular Bell
	1	Church Bell
	2	Carillon
16	0	Dulcimer/Santur

Organ

Patch Number	Bank Number	Instrument Name
17	0	Drawbar Organ
	1	Detuned Organ 1
	2	60's Organ 1
	3	Organ 4

Patch Number	Bank Number	Instrument Name
18	0	Percussive B3 Organ
	1	Detuned Organ 2
	2	Organ 5
19	0	Rock Organ
20	0	Church Organ 1
	1	Church Organ 2
	2	Church Organ 3
21	0	Reed Organ
	1	Puff Organ
22	0	French Accordion
	1	Italian Accordion
23	0	Harmonica
24	0	Bandoneon

Guitar

Patch Number	Bank Number	Instrument Name
25	0	Nylon-String Guitar
	1	Ukulele
	2	Open Nylon Guitar
	3	Nylon Guitar 2
26	0	Steel-String Guitar
	1	12-String Guitar
	2	Mandolin
	3	Steel + Body
27	0	Jazz Guitar
	1	Hawaiian Guitar
28	0	Clean Electric Guitar
	1	Chorus Guitar
	2	Mid Tone Guitar
29	0	Muted Electric Guitar
	1	Funk Guitar
	2	Funk Guitar 2
	3	Jazz Man
30	0	Overdriven Guitar
	1	Guitar Pinch
31	0	Distortion Guitar
	1	Feedback Guitar
	2	Distortion Rtm Guitar
32	0	Guitar Harmonics
	1	Guitar Feedback

Bass

Patch Number	Bank Number	Instrument Name
33	0	Acoustic Bass
34	0	Fingered Bass

Patch Number	Bank Number	Instrument Name
	1	Finger Slap
35	0	Picked Bass
36	0	Fretless Bass
37	0	Slap Bass 1
38	0	Slap Bass 2
39	0	Synth Bass 1
	1	Synth Bass 101
	2	Synth Bass 3
	3	Clavi Bass
	4	Hammer
40	0	Synth Bass 2
	1	Synth Bass 4
	2	Rubber Bass
	3	Attack Pulse

Orchestra Solo

Patch Number	Bank Number	Instrument Name
41	0	Violin
	1	Slow Violin
42	0	Viola
43	0	Cello
44	0	Contrabass
45	0	Tremolo Strings
46	0	Pizzicato Strings
47	0	Harp
	1	Yang Qin
48	0	Timpani

Orchestra Ensemble

Patch Number	Bank Number	Instrument Name
49	0	String Ensemble
	1	Orchestra Strings
	2	60's Strings
50	0	Slow String Ensemble
51	0	Synth Strings 1
	1	Synth Strings 3
52	0	Synth Strings 2
53	0	Choir Aahs
	1	Choir Aahs 2
54	0	Voice Oohs
	1	Humming
55	0	Synth Voice
	1	Analog Voice
56	0	Orchestra Hit
	1	Bass Hit

Patch Number	Bank Number	Instrument Name
	2	6th Hit
	3	Euro Hit

Brass

Patch Number	Bank Number	Instrument Name
57	0	Trumpet
	1	Dark Trumpet
58	0	Trombone
	1	Trombone 2
	2	Bright Trombone
59	0	Tuba
60	0	Muted Trumpet
	1	Muted Trumpet 2
61	0	French Horns
	1	French Horn 2
62	0	Brass Section 1
	1	Brass Section 2
63	0	Synth Brass 1
	1	Synth Brass 3
	2	Analog Brass 1
	3	Jump Brass
64	0	Synth Brass 2
	1	Synth Brass 4
	2	Analog Brass 2

Reed

Patch Number	Bank Number	Instrument Name
65	0	Soprano Sax
66	0	Alto Sax
67	0	Tenor Sax
68	0	Baritone Sax
69	0	Oboe
70	0	English Horn
71	0	Bassoon
72	0	Clarinet

Wind

Patch Number	Bank Number	Instrument Name
73	0	Piccolo
74	0	Flute
75	0	Recorder
76	0	Pan Flute
77	0	Bottle Blow
78	0	Shakuhachi
79	0	Whistle

Patch Number	Bank Number	Instrument Name
80	0	Ocarina

Synth Lead

Patch Number	Bank Number	Instrument Name
81	0	Square Lead
	1	Square Wave
	2	Sine Wave
82	0	Saw Lead
	1	Saw Wave
	2	Doctor Solo
	3	Natural Lead
	4	Sequenced Saw
83	0	Synth Calliope
84	0	Chiffer Lead
85	0	Charang
	1	Wire Lead
86	0	Solo Synth Vox
87	0	5th Saw Wave
88	0	Bass & Lead
	1	Delayed Lead

Synth Pad

Patch Number	Bank Number	Instrument Name
89	0	Fantasia Pad
90	0	Warm Pad
	1	Sine Pad
91	0	Polysynth Pad
92	0	Space Voice Pad
	1	Itopia
93	0	Bowed Glass Pad
94	0	Metal Pad
95	0	Halo Pad
96	0	Sweep Pad

Synth Sound FX

Patch Number	Bank Number	Instrument Name
97	0	Ice Rain
98	0	Soundtrack
99	0	Crystal
	1	Synth Mallet
100	0	Atmosphere
101	0	Brightness
102	0	Goblin
103	0	Echo Drops
	1	Echo Bell

Patch Number	Bank Number	Instrument Name
	2	Echo Pan
104	0	Star Theme

Ethnic

Patch Number	Bank Number	Instrument Name
105	0	Sitar
	1	Sitar 2
106	0	Banjo
107	0	Shamisen
108	0	Koto
	1	Taisho Koto
109	0	Kalimba
110	0	Bagpipe
111	0	Fiddle
112	0	Shanai

Percussive

Patch Number	Bank Number	Instrument Name
113	0	Tinkle Bell
114	0	Agogo
115	0	Steel Drums
116	0	Woodblock
	1	Castanets
117	0	Taiko
	1	Concert Bass Drum
118	0	Melodic Tom 1
	1	Melodic Tom 2
119	0	Synth Drum
	1	808 Tom
	2	Electric Percussion
120	0	Reverse Cymbal

Sound Effect

Patch Number	Bank Number	Instrument Name
121	0	Guitar Fret Noise
	1	Guitar Cut Noise
	2	String Slap
122	0	Breath Noise
	1	Flute Key Click
123	0	Seashore
	1	Rain
	2	Thunder
	3	Wind
	4	Stream
	5	Bubble

Patch Number	Bank Number	Instrument Name
124	0	Bird
	1	Dog
	2	Horse-Gallop
	3	Bird 2
125	0	Telephone 1
	1	Telephone 2
	2	Door Creaking
	3	Door Closing
	4	Scratch
	5	Wind Chimes
126	0	Helicopter
	1	Car-Engine
	2	Car-Stop
	3	Car-Pass
	4	Car-Crash
	5	Siren
	6	Train
	7	Jetplane
	8	Starship
	9	Burst Noise
127	0	Applause
	1	Laughing
	2	Screaming
	3	Punch
	4	Heart Beat
	5	Footsteps
128	0	Gun Shot
	1	Machine Gun
	2	Lasergun
	3	Explosion

Drum kit

1	Standard Kit
9	Room Kit
17	Power Kit
25	Electronic Kit
26	TR-808 Kit
33	Jazz Kit
41	Brush Kit
49	Orchestra Kit
57	Sound FX Kit

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CC#

Control **C**hange **N**umber

GM 1

CC#	
1	Modulation wheel
7	Volume
10	PAN
11	Expression
64	Sustain pedal
6	Data entry MSB
38	Data entry LSB
96	Data +1
97	Data -1
98	RPN LSB
99	RPN MSB
100	RPN LSB
101	RPN MSB
121	All controller off
123	All note off

GM 2

CC#	Function
0/32	Bank Select (MSB/LSB)
1	Modulation Wheel
2	Breath Controller
4	Foot Controller
5	Portamento Time
7	Channel Volume
10	Pan
64	Damper Pedal On/Off (Sustain)
65	Portamento On/Off
66	Sostenuto On/Off
67	Soft Pedal On/Off
70	Sound Variation
71	Timbre/Harmonic Intensity (filter resonance)
72	Release Time
73	Attack Time
74	Brightness (cutoff frequency)
75	Decay Time
76	Vibrato Rate

RPN

Registered Parameter Number

Pitch bend range, Fine tune, Coarse tune

CC#	100	101	LSB, MSB	...
-----	-----	-----	----------	-----

Pitchbend

- Control number 100 : 0
- Control number 101 : 0
- Control number 6 : 1~12(1 : , 2 : , 12 : 12 ,)

Pitch Fine tune

- Control number 100 : 0
- Control number 101 : 1
- Control number 6 : 0~64~127(64가 0~64 , 64~127)

Pitch Coarse tune

- Control number 100 : 0
- Control number 101 : 2
- Control number 6 : 0~64~127(64가 0~64 , 64~127)

RESET

- Control number 100 : 0
- Control number 101 : 1

NRPN

Non-Registered Parameter Number,

RPN
NRPN

ex.) Vibrato rate

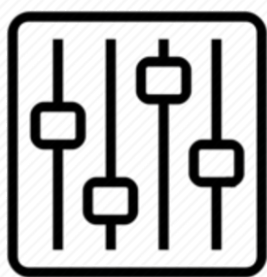
- Control number 99 : 1
- Control number 98 : 8
- Control number 6 : 14~64~114(64 : Default)

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1)
GM
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FM



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