

KETRON SD1



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Specifications

KEYBOARD	76 half-weighted keys. After touch. 6 Velocity Curves.
POLIPHONY	64 notes. 32 multitimbral.
SOUND GENERATION	48 Mbyte PCM ROM. 310 Presets, 350 GM Voices. 128 User Voices. 80 One Touch setting. PCM, Analog, FM Voicing. 16 digital Drawbars. Up to 1000 Drum Percussion Sounds.
RAM SOUND	16 Mbyte RAM Sounds. Single & Block Sound loading. Files.Wav, Msp and Ins supported. Sounds Autoloading.
ARRANGER	307 Custom Styles: 109 Flash rewritable - 198 ROM. Up to 999 instant access Disk Styles. Up to 64 RAM Styles. 48 Style setting. Single and Block Style loading. Style & Sound loading. 4 Arrangers, 3 Intros/Endings, 3 Fills Ins, Break, Fill To End. Multi-Fill function. Interactive accompaniment. Manual Bass. Jump. Arrange Lock. Wav file synchronized with tempo. Tap tempo. Accelerando - Ritardando . Tempo Slow/Fast . Pedalboard.
DRUM SETS	24 internal Drum Sets. 24 User Drum Sets. 24 Live Drum Sets. Controls: Volume, Reverb, Panpot. Drum on/off switches. Manual Drums. Drum Mixer. 10 Drum Sections. Ram sounds assignable to User Drum Set.
PROGRAMS	128 Programs. 4 voices, 4 splits, Effects, Sustain, Portamento, Expression . Modes : Duet, Trio, Steel, Morphing. Velocity Switch. Harmony and 2nd voice assign. Single & Global Program disk loading.
2ND VOICE	2nd Voice programmable for each Preset and User Voice.
MIDIFILE PLAYER	SMF Song playback. Real Time song recording. Songs with lyrics, karaoke and files Txt. Convert .Kar & .Mid (Type1) to .Mid (Type0). Juke box. Intelligent Transposer. Song list. Song Chain. Song & Sound loading. Wave Sync. Demo & Hit folder. Alphabetical or numerical order for songs. Automatic Midifile research. Drum & Bass. Lead Off.
OCTAVE	Up/Down +/- 1 Octave.
HARMONY	Full, Jazz, Double , 5th, Bluegrass, Trill, Repeat.
PORTAMENTO	Rate control +/- 64. Mono Legato function.
TRANSPOSER	+/- 24 half tones
AFTERTOUCH	Assignable to Cut off, Volume, Bend, Slide, LFO, Attack, Threshold and Sensitivity control.
MOD. WHEEL	LFO to Pitch, to DCF, to DCA, Wha Wha, Swell, Rate. Rotor speed control .
PITCH WHEEL	Tune +/- 99 Cents . Vibrato On/Off. Bend value 0/24. Bend to LFO, DCF, DCA.
ARABIC SCALE	Tune +/- 99 Cents per note. 13 Arabic set ups footswitch assignable.
ACCORDION MODE	International, Belgique. Left/Right velocity control. Bass octave. Bass Sustain. Bass to Chord recognition, Lower octave. Left drum to Bass & Chord.
EFFECTS	3 digital multi effects DSP's. 60 different effects, Reverberation, Chorus , Flanger, Delay, Wha Wha, Distorsion, Overdrive, Rotor, Equalizer +/- 12 Db (Low, Middle, High). 16 User Effects.
SAMPLER	16 Mbyte sampling 16 Bit - 44.1 KHz. Sample editor. Multisampler editor. Files .Wav Sync to Style.
VOCALIZER	Vocalizer unit. Harmonizer. Vocoder, Melody types. MIDI Vocalist track. Left & Right assign . Reverb, Delay, Transpose, Level, Hold. Filter edit. Vocalizer modes.
MICRO	2 Micro input: XRL Balanced, Mono Jack. 2 Micro Out to external mixer. Level Pan Pot, Echo, Reverb, Pitch Shift +/- 12, Dry.
MIDI	In1, In2, Out, Thru. 32 MIDI channels. General MIDI Standard.
SEQUENCER	16 Tracks, 150,000 notes.
FLOPPY DISK	3.5 2DD/HD.
HARD DISK	Type ATA IDE 2.5. 6 Gbyte. Up to 99 folders. 999 files for folder. Master folder. MIDfiles, Styles, Programs, Registrations, Demo & Hit, Txt, User, Sounds. Hard Disk backup to PC
DISPLAY	240 X 128 Pixel baklit graphic TCF
OUTPUTS	Out 1 Left/Mono. Out 2 Right. Out 3. Out 4. Sustain Pedal. Footswitch (6 or 13 switches). Micro1 Out. Micro2 Out.
OUT ASSIGN	GM/Keyboard Out assignment to 4 audio Outputs
INPUTS	Stereo headphone. Micro XRL. Micro Jack. Micro Gain control.
OPTIONAL	Video Interface .Volume Pedal. Volume Pedal 4 switches. Sustain pedal. Footswitch FS6- FS13. MIDI pedalboard.
COMPUTER	PC/Mac Interface . Cable & Software.
DIMENSIONS	119 X 39 X 12 Cms
WEIGHT	Kg 16.5

Preset program changes

P. CH.	BANK 0 (A)	BANK 1 (B)	BANK 10 (C)	BANK 11 (D)	BANK 12 (E)	BANK 13 (F)	BANK 14 (G)
1	Grand	Latinpiano					
2	RockGrand	House					
3	Upright	Jingle					
4	HonkyTonky	Octapiano					
5	Vintage	Markpiano	Rodes				
6	Dxpiano	Funkpno	Electropno				
7	Harpsichord	Elopiano	Elpiano 1				
8	Clavinet	Stage	Elpiano2				
9	Celesta	Chimes					
10	Glocken						
11	Toybox						
12	Vibraphon	Dry Vibes					
13	Marimba						
14	Xylophon						
15	Bell						
16	Santur						
17	Leslies	Jazz B3	Jazzy	Poporgan			
18	Jazz Organ	Gospel	Full	Fullhamm			
19	Rock B3	Shade	Rotary	Tutti			
20	Church	Positive	Clickorgan	Tonewheel			
21	Theatre	Rocker	Drawbar	Movie			
22	Musette	Master	Diatonic	Fisa	Irish	Elysées	Octafisa
23	Harmonica	Alpen	Valse	Celeste	Organetto	Seine	Reed
24	Accordeon	Bandoneon	Tango	Jazzfisa	Classica	Cassotto	
25	Brazilian	Spanish	Takamin				
26	Acoustic	12 Strings	Country	Unplugg			
27	Jazzguitar	Solidbody	Chorus gtr	Electric			
28	Clear	Nashville	Telecaster	Rock&Roll			
29	Muted	60'Stopped	Plucked	Squire			
30	Carlos	Rocklead	Distorted	Popguar			
31	Blueslead	Power	Valve				
32	Texas	Strato	Hawaian	PedalSteel			
33	Jazzbass	Softbass					
34	Finger	Precision					
35	Picked	Rockbass					
36	Freetles	Cool					
37	Slap	Mutebass					
38	Funk	Slapmix	Hardfunk				
39	Synbass 1	Synbass 3	Synbass 5				
40	Synbass 2	Synbass 4	Synbass 6	Synbass7			
41	Violin	Slowviolin					
42	Viola	Tzigano					
43	Violas	Zivago					
44	Cellos						
45	Philharmonic	Baroque					
46	Pizzicato	Marcato					
47	Harp	Glockstrng					
48	Wiener						
49	Strings	Synphony					
50	Slowstrings	Orchestra					
51	Synstring						
52	Digistring	Mmmh					
53	Corale	Toohh	Classic	Slowchoir	Concert		
54	Uuuh		Synchoir	Softchoir	Warmvoice		
55	Aaah	Vocals	Fadechoir1	Spacevoice	Breathvox		
56	Soulsister	Boom&Uap	Fadechoir2	Cathedral	Synvoice		
57	Golden tpt	Mexican	Softtrumpet				
58	Trombone	Trombones					
59	Trumpet	Posaune					
60	Milesmute	Mute tpt					
61	Frenchorn	Flugelhorn					

62	Brass	Tijuana	Mariachi
63	Synbrass1	Octabrass	Growlbrass
64	Synbrass2	Salseros	Fall off
65	Altosoft	Soprano	Sax&brass
66	Contralto	Circus	Oberduet
67	Rocksax	Nightsax	Obertrio
68	Tenor	Poptenor	Saxsection
69	Oboe	Jazzalto	
70	Englishhorn	Boogiesax	
71	Bassoon	Altodry	
72	Clarinet	Baritone	
73	Piccolo	Voiceflute	Shanai
74	Flute	Jungle	Softflute
75	Recorder	Newage	Octaflute
76	Andes	Panflute	Lipflute
77	Bottle	Flutevox	
78	Shakuashi	Chiff	
79	Whistle	Ethnic	
80	Ocarina	Warmflute	
81	Polysynt	Sawlead	Calliope
82	Synclead	Stack	Taurus
83	Square	Maxisaw	Heavy
84	Oldmatrix	Fusion	Wha
85	Sweeplead	Whau	
86	Syntax	Pulse	
87	Saw5th	Sequence	
88	Plate	Chop	
89	Fantasy	Warmpad	
90	Breaths	Chopper	
91	Dancehit	Technopad	
92	Airpad	Spiral	
93	Glockpad	Thinpad	
94	Metal	Rave	
95	Halo	Progressive	
96	Sweep	Planet	
97	Ice rain	Galaxy	
98	Brightsaw	Resopad	
99	Cosmic	Glasdros	
100	Dreamin	Flanger	
101	Brightness	Wiring	
102	Goblin	Action	
103	Echodrop		
104	Startheme		
105	Sitar	Mandolin	
106	Banjo	Zither	Bluegrass
107	Shamisen	Hackbrett	Tres
108	Koto	Fado	
109	Kalimba	Charango	
110	Bagpipe	Bouzouki	
111	Fiddle	Ukulele	
112	Zurna	Lute	
113	Tinkle		
114	Winchimes		
115	Steeldrum		
116	Woodblock		
117	Belltrees		
118	Science-Fx		
119	Syntom		
120	Scratches		
121	Fretslide	Vocal 1	
122	Ends	Vocal 2	
123	Seashore	Vocal 3	
124	Bird	Vocal 4	
125	Telephone	Vocal 5	
126	Elicopter	Jodlers	
127	Applause		
128	Gunshot		

Presets

PIANO	Grand
	Latin Piano
	Upright
	Honky Tonky
	Octapiano
	Rock Grand
	House
	Jingle
	Harpsichord
	Clavinet
EL PIANO	Vintage
	Dx Piano
	Mark Piano
	Funkpno
	Elopiano
	Stage
	Rodes
	Electropno
	El Piano 1
	El Piano 2
CHROM	Celesta
	Marimba
	Vibraphon
	Glocken
	Xilophon
	Chimes
	Toybox
	Tinkle
	Bell
	Dry Vibes
ORGAN	Jazz B3
	Gospel
	Shade
	Rocker
	Jazz Organ
	Jazzy
	Full
	Rotary
	Church
	Leslies
	Click Organ
	Positive
	Drawbars
	Rock B3
	Theatre
	Pop Organ
	Full Hamm
	Tutti
	Tone Whee
	Movie
ACCORD.	Musette
	Accordeon
	Master
	Bandoneon
	Alpen
	Jazz Fisa
	Harmonica
	Diatonic
	Valse
	Tango
	Fisa
	Celeste
	Irish
	Organetto
	Reed
	Classica
	Elysees
	Octafisa

GUITAR	Seine
	Cassotto
	Brasilian
	Acoustic
	Jazz Guitar
	Clear
	Muted
	Carlos
	Blueslead
	Texas
	Nashville
	Solidbody
	Spanish
	12 Strings
	Squire
	Valve
	Strato
	Hawaian
	Chorus gtr
	Rocklead
	Power
	Plucked
	Country
	Telecast
	Pedalsteel
	Distorted
	Pop Guitar
	Rock&Roll
	Unplugg
	Electric
BASS	Takamine
	60 Stopped
	Jazz Bass
	Finger
	Picked
	Freetles
	Slap
	Syn Bass 1
	Syn Bass 2
	Mute Bass
	Rock Bass
	Hard Funk
	Precision
	Funk
	Soft Bass
	Cool
	Slap Mix
	Syn Bass 3
	Syn Bass 4
	Syn Bass 5
STRINGS	Syn Bass 6
	Syn Bass 7
	Violin
	Strings
	Violas
	Symphony
	Syn String
	Slow String
	Philharmonic
	Marcato
	Cellos
	Pizzicato
	Viola
	Harp
	Slow Violin
	Glockstring
	Orchestra
	Digistring
	Wiener

CHOIR	Tzigano
	Baroque
	Zivago
	Aaah
	Corale
	Uuuh
	Mmmh
	Tooooh
	Soul Sister
	Vocals
	Boom & Wap
	Classic
	Syn Voice
	Fade Cho 1
	Fade Cho 2
	Slow Choir
	Syn Choir
	Soft Choir
	Space Voice
	Chatedral
BRASS	Concert
	Warm Voice
	Breath Vox
	Golden Tpt
	Trombone
	Miles Mute
	Brass
	Frenchorn
	Trumpet
	Flugelhorn
	Mute Tpt
	Mexican
	Octa Brass
	Synbrass1
	Salseros
	Trombones
	Growl Brass
	Posaune
	Syn Brass2
	Soft Trumpet
SAX	Titjuana
	Mariachi
	Fall Off
	Altosoft
	Contralto
	Rocksax
	Tenor
	Soprano
	Night Sax
	Circus
	Clarinet
	Oboe
	English Horn
	Jazz Alto
	Boogie Sax
	Alto Dry
	Baritone
	Pop Tenor
	Sax & Brass
	Ober Duet
FLUTE	Ober Trio
	Sax Section
	Basson
	Flute
	Andes
	Jungle
	Bottle
	Voice Flute

	Recorder
	Whistle
	Ocarina
	Pan Flute
	New Age
	Flute Vox
	Shakuhashi
	Chiff
	Piccolo
	Ethnic
PAD	Warm Flute
	Shanai
	Octa Flute
	Lip Flute
	Soft Flute
	Techno Pad
	Dance Hit
	Warmpad
	Airpad
	Glock Pad
	Chopper
	Spiral
	Thin Pad
	Fantasy
	Rave
	Echo Drop
	Breaths
	Metal
	Icerain
	Brightness
	Halo
	Progressive
	Cosmic
	Sweep
	Dreamin
	Planet
	Galaxy
	Goblin
	Resopad
	Star Theme
SYNTH	Glasdros
	Flanger
	Bright Saw
	Wiring
	Action
	Poly Synth
	Sync Lead
	Square
	Old Matrix
	Sweeplead
	Syntax
	Calliope
	Plate
	Saw Lead
	Stack
	Maxi Saw
	Fusion
	Whau
	Pulse
	Sequence
ETHNIC	Chop
	Taurus
	Heavy
	Wha
	Saw 5th
	Sitar
	Banjo
	Shamisen
	Koto

GM Voices

BANK A (CONTROL CHANGE 00, VALUE=0)

	Kalimba
	Bag Pipe
	Fiddle
	Mandolin
	Zither
	Hackbrett
	Fado
	Charango
	Bouzouki
	Steel Drum
	Santur
	Zurma
	Bluegrass
	Ukulele
	Lute
	Tres
EFFECT	Vocal 1
	Vocal 2
	Vocal 3
	Vocal 4
	Vocal 5
	Jodlers
	Science -Fx
	Scratches
	Sea Shore
	Applause
	Helicopter
	Telephone
	Bird
	Gun Shot
	Freeslide
	Wind Chimes
	Beel Tree
	Ends
	Syntom
	Woodblock

PROGRAM CHANGE	NAME		
1	Grand	65	Altosoft
2	Rock	66	Contralto
3	Upright	67	Rocksax
4	Honky	68	Tenor
5	Dynapiano	69	Oboe
6	Dx Piano	70	Englishhorn
7	Harpsich	71	Bassoon
8	Clavinet	72	Clarinet
9	Celesta	73	Piccolo
10	Glocken	74	Flute
11	Music Box	75	Recorder
12	Vibraphon	76	Andes
13	Marimba	77	Bottle
14	Xilophon	78	Shakuhashi
15	Bell	79	Wistle
16	Santur	80	Ocarina
17	Leslies	81	Square
18	Jazz Organ	82	Saw
19	Rock B3	83	Calliope
20	Church	84	Wha
21	Theatre	85	Plate
22	Musette	86	Vox
23	Harmonica	87	Saw 5th
24	Accordeon	88	Fm Lead
25	Brazilian	89	Fantasy
26	Folk	90	Incapad
27	Jazz	91	Score
28	Clean	92	Space
29	Muted	93	Dark
30	Overdrive	94	Metal
31	Distorted	95	Halo
32	Harmonics	96	Sweep
33	Acoustic	97	Ice Rain
34	Finger	98	Soundtrack
35	Picked	99	Crystal
36	Fretless	100	Atmpsphere
37	Slap	101	Brightness
38	Funk	102	Goblin
39	Synbass 1	103	Echodrops
40	Synbass 2	104	Startheme
41	Violin	105	Sitar
42	Viola	106	Banjo
43	Cello	107	Shamisen
44	Contrabass	108	Koto
45	Tremolos	109	Kalimba
46	Pizzicato	110	Bagpipe
47	Harp	111	Fiddle
48	Timpani	112	Zurna
49	Strings	113	Tinkle
50	Slow Strings	114	Agogo
51	Synstrgs1	115	Steeldrum
52	Synstrgs 2	116	Woodblock
53	Choir 1	117	Taiko
54	Choir 2	118	Melotom
55	Synvoice	119	Syntom
56	Hits	120	Reverse
57	Trumpet	121	Fretslide
58	Trombone	122	Breath
59	Tuba	123	Seashore
60	Muted Tpt	124	Bird
61	French Hrn	125	Telephone
62	Brass	126	Helicopter
63	Synbrass 1	127	Applause
64	Synbrass 2	128	Gun Shot

BANK B (CONTROL CHANGE 00, VALUE=1)

PROGRAM CHANGE	NAME
01B	Jingle
02B	Electric
03B	House
04B	Elopiano
05B	Rodes
06B	Funky Pno
07B	Fm Piano 1
08B	Fm Piano2
09B	Toybox
10B	Chimes
11B	Mallets
12B	Long Vibes
13B	Malimba
14B	Carillon
15B	Tinkles
16B	Windchimes
17B	Rotary
18B	Pop organ
19B	Drawbars
20B	Positive
21B	Master
22B	Diatonic
23B	Cassotto
24B	Bandoneon
25B	Spanish
26B	Country
27B	Funk
28B	60' Stopped
29B	Plucked
30B	Blues
31B	12 Strings
32B	Strato
33B	Soft
34B	Precision
35B	Mutebass
36B	Rockbass
37B	Deep
38B	Synbass 3
39B	Synbass 4
40B	Synbass 5
41B	Philharmoni
42B	Violas
43B	Glock strings
44B	Octastgrs1
45B	Octastgrs2
46B	Marcato
47B	Orchestra
48B	Slow arcos
49B	Synphony
50B	Digi strings
51B	Vocals
52B	Mmmh
53B	Tooooh
54B	Uuuu
55B	Aaah
56B	Boom&Uap
57B	Soft trumpet
58B	Hi trumpet
59B	Tuba&Bass
60B	Miles tpt
61B	Flugel horn
62B	Brassmix
63B	Growlbrass1
64B	Brass fx

65B	Soprano
66B	Circus
67B	Night sax
68B	Hi tenor
69B	Mariachi
70B	Growbrass2
71B	Cornet
72B	Horns
73B	Clarino
74B	Fife
75B	Voice flute
76B	Panflute
77B	Analogs
78B	Flanger
79B	Bright saw
80B	Wiring
81B	Wow
82B	Saw wave
83B	Square wave
84B	Sine wave
85B	Hip bass
86B	Synbass 6
87B	Synbass 7
88B	Synbass 8
89B	2nd perc
90B	3th perc
91B	Click
92B	Whiter
93B	Hot Organ
94B	Tonewheel
95B	Powerfast
96B	Jazzy
97B	Singlecoil
98B	Pop guitar
99B	Solid body
100B	Texas
101B	Tremolo
102B	Telecast
103B	Rocks stops
104B	Wha guitar
105B	Hawaian
106B	Mandolin
107B	Nylon
108B	Bouzouki
109B	Pedalsteel
110B	Rock&Roll
111B	Fisa 8'
112B	Blow
113B	Fx 1
114B	Fx 2
115B	Fx 3
116B	Fx 4
117B	Fx 5
118B	Fx 6
119B	Fx 7
120B	Fx 8
121B	Vocal 1
122B	Vocal 2
123B	Vocal 3
124B	Vocal 4
125B	Vocal 6
126B	Jodlers
127B	Science-Fx
128B	Scatches

BANK C (CONTROL CHANGE 00, VALUE=10)

PROGRAM CHANGE	NAME
1	Piano 1
2	Piano 2
3	Piano 3
4	Piano 4
5	Mark
6	Thin
7	Rodeslow
8	Rodeshi
12	Softvibes
16	Belltree
17	70 Organ
18	Full
19	Jazzdraw
20	Pipe 1
21	Pipe 2
22	Soft Reed
23	Italfisa
24	Tango
25	Django
26	Gipsy
27	Bebop
28	Licks
29	R&B Guitar
30	Pickup
31	Wesquit
32	Acidguit
33	Subbass
34	Warmbass
35	Cool
36	Bright
37	Slapmix
38	Hardfunk
39	Motown
40	Slappin
41	Loveviolin
42	Geige
43	Sweetly
44	Sfz Violin
45	Rondo'
46	Bowed
47	Harp&Strings
48	Symphonic
49	Baroque
50	Arcos
51	Ensemble
52	Legato
53	Scat
54	Corale
55	Slow Choir
56	Ends
57	Mexican
58	Posaune
59	Brasslips
60	Bright Tpt
61	Fall Off
62	Tijuana
63	Sawbrass
64	Octabrass
65	Jazz Alto
66	Alto Dry
67	Tenor Dry
68	Dyna Sax
69	Pop Tenor
70	Hi Tbn

71	Blare
72	Jazzclari
73	Hi Flute
74	Reso Flute
75	Light
76	Chiff
77	Oriental
78	Jungle
76	Warm Flute
80	Soft Flute
81	Dynasaw
82	Synclead
83	Chop
84	Moogh
85	Syntax
86	Whau
87	Tecnosynt 1
88	Tecnosynt2
89	Rave
90	Planet
91	New Age
92	Vox Pad
93	Glass Pad
94	Dance Hit
95	Reflection
96	Glock Pad
97	Lite
98	Resopad
99	Dreamin
100	Breeze
101	Stack
102	Chopper
103	Spiral
104	Landing
105	Hackbrett

Drum Sets

PROGRAM CHANGE	NAME
1	Standard
9	Folk
10	Acoustic
11	Pop
12	Jazz Dry
17	Hard Rock
25	Power
26	Techno
28	Progressive
29	Rave
30	Hip-Hop
33	Fusion
41	Brush
49	Orchestra
57	Contemporary
58	Vocal 1
59	Vocal 2
65	Latin 1
66	Latin 2
73	Rock&Roll
121	Beat
122	Electro
123	Country
124	R&B

Live Drums (DRUM2)

BANK (C.C.=0)	PROGRAM CHANGE	NAME
4	1	Bachata
4	2	Bolero
4	3	Chacha
4	4	Cumbia
4	5	Guajira
4	6	Mambo
4	7	Salsa 1
4	8	Rhumba
4	9	Merengue 1
4	10	Merengue 2
4	11	Congas 1
4	12	Congas 2
4	13	Gipsy
4	14	Maracas
4	15	Tamburine
4	16	Brush
4	17	House
4	18	Rap 1
4	19	Rap 2
4	20	Jakson
4	21	Dance
4	22	Under
4	23	Ethnic 1
4	24	Ethnic 2
4	25	Latingr 1
4	26	Latingr 2
4	27	Latingr 3
4	28	Latingr 4
4	29	Latingr 5
4	30	Latingr 6
4	31	Latingr 7
4	32	Latingr 8
4	33	Tekno 1
4	34	Tekno 2
4	35	Newage
4	36	Latinhou
4	37	Slowbeat
4	38	Hiphop
4	39	Pop
4	40	Vocals
4	41	Rock
4	42	Jazz 1
4	43	Shuffle
4	44	Jazz 2
4	45	Bossanova
4	46	Samba 1
4	47	Samba 2
4	48	Pandero
4	49	Salsa 2
4	50	Eurolatin

Midi Banks & Prog. Change

VOICES/DRUMS	CONTROL CHANGE 0 (VOICE BANK)	PROGRAM CHANGE
GM VOICES	0 = Bank A	1 - 128
	1 = Bank B	1 - 128
	10 = Bank C	1 - 105 (*1)
PRESET Right Channel	0 = Bank A	1 - 128
	1 = Bank B	1 - 128
	10 = Bank C	1 - 128
	11 = Bank D	1 - 128
	12 = Bank E	1 - 128
	13 = Bank F	1 - 128
	14 = Bank G	1 - 128 (*2)
PROGRAM Right Channel	9	1 - 128
USER VOICE	2	1 - 128
DRAWBAR	5	1 - 16
FLASH / RAM	3 - 6	1 - 128
WAVE / MSP	7	1 - 8
DRUM 1 Internal	-	1 - 72 121 - 124
DRUM 1 Flash/Ram	-	74 - 84
USER DRUM	-	97 - 120
DRUM 2 Internal	4	1 - 50
DRUM 2 Flash/Ram	4	97 - 126
VOCALIZE	-	1 - 16
REGISTRATION	0 = Bank A	1 - 99
	1 = Bank B	1 - 99

(*1) In bank C of General Midi, the sounds with program change 09, 10, 11, 13, 14, 15 and from 106 to 128 are not included.

(*2) With regard to presets, bank A is complete whereas banks B, C, D, E, F, G contain only a few sounds, as you may see from the presets table. If you call up a program change that does not exist, automatically the corresponding one of bank A is called up.

Styles

8 BEAT	1	Pub Song		94	Kramer		147	R & B Groove	
	2	Piano Ballad		95	Country Pop		165	B.B.Rock	
	3	Slow Ballad		96	Slow Country		SWING	58	Jazzman
	4	Country Beat		97	Country 2 Steps			59	Med Swing
	5	Engl. Rock		98	Banjo & Fiddle			60	Fox Dixie
	6	Guit & Organ		99	Country Ballad			61	Fast Swing
	7	90'beat		176	Western 1			62	Shuffle Ballad
	8	Shuffle Beat		177	Western 2			63	Jazz Combo
	9	Flip Beat		178	Country Rock 1			64	Orch.Slow
	10	Moderato		179	Country Rock 2			65	Bebop
	101	8 Beat A		180	Country Slow 1			66	New Orleans
	102	8 Beat 2		181	Country Slow 2			67	Fox Trot
	103	8 Beat 3		182	Country Pop 1			194	Jam Session
	104	8 Beat 4		183	Country Pop 2			170	Brodway
	105	8 Beat 5		184	Country Pop 3			171	Moonlight
16 BEAT	111	8 Ballad 1	185	Country Fox 1	168	Jazz Organ 1			
	112	8 Ballad 2	186	Country Fox 2	169	Jazz Organ 2			
	113	8 Ballad 3	187	Bluegrass 1	172	Swing 1			
	114	8 Ballad 4	188	Bluegrass 2	173	Swing 2			
	PARTY	11	Laura's Tune	189	Country Waltz 1	174	Slow 1		
		12	Folksinger	190	Country Waltz 2	175	Slow 2		
		13	Down Beat	191	Country Beat	192	5/4		
		14	Soft & Sweet	88	Party Rock	193	Django		
		15	Easy Pop	89	Flip Fox	200	Big Band 1		
		16	Urban	90	Schlager	201	Big Band 2		
		17	Melody	91	Wholle Beat	202	Big Band 3		
		18	Smoot	283	Hully Gully 1	203	Big Band 4		
		19	Slow Beat	284	Hully Gully 2	204	Slow Dixie		
		106	16 Beat 1	236	Disco Samba	205	Charleston		
		107	16 Beat 2	234	Happy Samba	235	Jazz Samba		
108		16 Beat 3	232	Disco Cha	268	Jazz Waltz			
109		16 Beat 4	286	Meneito	LATIN	68	Salsa Viva		
110		16 Beat 5	166	Party Beat 1		69	Ny Merengue		
115		16 Ballad 1	167	Party Beat 2		70	Samba		
116	16 Ballad 2	285	Macarena	71		New Bolero			
117	16 Ballad 3	136	Disco 1	72		B. Merengue			
118	16 Ballad 4	137	Disco 2	73		Cha Cha			
POP & FUNK	20	Slap & Funk	138	Disco 3		74	Brazil Bossa		
	21	Get Down	139	Disco 4		75	Milonga		
	22	Street	260	Party Polka 1		76	Romantica		
	23	Fusion	261	Party Polka 2		77	Vallenato		
	24	Vocalize	252	Gipsy		78	Soft Bossa		
	25	Guitar Club	253	Caribe		79	Guajira		
	26	Cool Funk	256	Limbo		80	Cumbia		
	27	Rapper	287	Lambada		81	Dominicano		
	28	Folk & Pop	259	Bajon		82	Bm Reggae		
	29	Swing Funk	288	Letkiss	83	Bachata B.			
	30	Trip Hop	ROCK & SOUL	31	Rock Ballad	84	Flamenca		
	119	Light Pop 1		32	Hard Rock	85	Perez Mambo		
	120	Light Pop 2		33	R & Blues	86	PR Salsa		
	121	Light Pop 3		34	Rock Shuffle	87	Son Antiguo		
	122	Pop Funk 1		35	Soul	229	Bossanova 1		
123	Pop Funk 2	36		USA Rock	230	Bossanova 2			
124	Pop Funk 3	37		Basic Rock	231	Latin Cha			
125	Hip Hop 1	38		Shuffle Blues	233	Rio Samba			
126	Hip Hop 2	39		Latin Rock	237	Salsa 1			
127	Hip Hop 3	195		Gospel	238	Salsa 2			
128	Easy Rap 1	160		Rock 1	240	Mambo			
129	Easy Rap 2	161		Rock 2	241	Merengue 1			
140	Acid Jazz 1	148		R & Soul	242	Merengue 2			
141	Acid Jazz 2	149		Motown	250	Paso Doble 1			
142	Acid Jazz 3	150		R & Blues 1	251	Paso Doble 2			
COUNTRY	146	Grunge	151	R & Blues 2	245	Bachata			
	153	Funky 1	152	R & Blues 3	246	Guajra			
	154	Funky 2	157	Blues 1	247	R.Flamenco			
	155	Funky 3	158	Blues 2	248	Sevillana			
	156	Funky 4	159	Slow Blues	249	Ranchera			
		92	Country Fox	162	Rock Beat	243	Bolero		
		93	Bluegrass	163	Rockshuffle 1	244	Lat. Cumbia		
				164	Rockshuffle 2	257	Reggae 1		

	258	Reggae 2
ROCK & ROLL	50	Rock & Roll
	51	Boogie
	52	Surf
	53	60 'S Pop
	54	Slow Rock
	55	Country Rock
	56	Scand Bugg
	57	Lucky
	213	Twist
	216	Rock'n Roll 1
	217	Rock'n Roll 2
	218	Rock'n Roll 3
	215	Texmex
	219	Boogie Wo
	220	Bugg
	221	Shuffle
	222	Slow Rock 1
	223	Slow Rock 2
	224	Slow Rock 3
	225	Slow Rock 4
	212	Pop 60
	214	Pop Twist
FOLK	299	Valzer
	300	Polka
	301	Mazurka
	302	Tango
	303	Fr. Musette
	304	Tarantella
	305	Paso Doble 3-4
	306	Old Waltz
	307	Latin 3-4
	226	Beguine 1
	227	Beguine 2
	228	Beguine 3
	281	Oberpolka
	282	Oberwaltz
	262	Bavarian
	266	Slow Waltz 1
	267	Slow Waltz 2
	206	Fox Ballad1
	207	Fox Ballad2
	208	Slow Fox
	209	Foxtrot 1
	210	Foxtrot 2
	263	Waltz 1
	264	Waltz 2
	265	Waltz 3
	269	Polka 1
	270	Polka 2
	271	Polka 3
	272	Tango 1
	273	Tango 2
	274	Tango 3
	275	Mazurka 1
	276	Mazurka 2
	289	Quadruglia
	290	R.Napolet 1
	291	R.Napolet 2
	277	Wiener
	278	Musette
	292	Saltarello
	293	Jigs
	294	Reels
	211	Quickstep
DANCE	40	Techno
	41	Dance Fever
	42	Disco Down
	43	Caribe Mix
	44	Mania Dance
	45	Disco Hits
	46	Fiesta Loca
	47	Dance Latin

	48	Merenhit
	49	Gitana
	254	Latin Dance 1
	255	Latin Dance 2
	239	Salsa Funk
	130	Techno 1
	131	Techno 2
	132	Techno 3
	133	House 1
	134	House 2
	135	House 3
	143	Rap 1
	144	Rap 2
	145	Jungle
ORCHESTRA / ETHNIC	100	Tribal Age
	196	Movie Song
	197	New Age
	198	Celtic 1
	199	Celtic 2
	279	March 1
	280	March 2
	298	Can Can
	296	Westride
	295	Romantic
	297	Baroque

Midi implementation

NOTE ON	9nH kk vv	n(0-0FH) midi channel, kk(01H-7FH)=NOTE ON vv=velocity(01H-7FH) (vv=0 means NOTE OFF)
NOTE OFF	8nH kk vv	n(0-0FH) midi channel, kk(01H-7FH)=NOTE OFF
	9nH kk 00H	vv=don't care if command 8nH
PITCH BEND	EnH bl bh	Pitch Bend as specified by bl(low) bh(high), bl=(00H-7FH),bh=(00H-7FH) 14 bit resolution. Maximum swing is +/-1 tone (default). (Can be changed using RPN 0000H) Center position is bl=00H bh=40H Min. bl=00H bh=00H, Max. bl=7FH bh=7FH
PROGRAM CHANGE	CnH pp	Program change. If n=09H Drumset change. Refer to voices or drumset list.
CHANNEL	DnH vv	vv=pressure value(00H-7FH).
AFTERTOUCH		see System excl. list for Aftertouch effect setting
CONTROL 00H	BnH 00H cc	Bank select. See voices list for details.
CONTROL 01H	BnH 01H cc	Modulation wheel. Rate, Assignment can be set using System excl.
CONTROL 05H	BnH 05H cc	Portamento time
CONTROL 06H	BnH 06H cc	Data Entry. Provides data to RPN NRPN
CONTROL 07H	BnH 07H cc	Volume
CONTROL 0AH	BnH 0AH cc	Pan. (Default 40H)
CONTROL 0BH	BnH 0BH cc	Expression. (Default 7FH)
CONTROL 40H	BnH 40H cc	Sustain. (Dumper pedal) On=7FH, Off=00H
CONTROL 41H	BnH 41H cc	Portamento. On/Off On=7FH, Off=00H
CONTROL 42H	BnH 42H cc	Sostenuto pedal On=7FH, Off=00H
CONTROL 43H	BnH 43H cc	Soft pedal On=7FH, Off=00H
CONTROL 5BH	BnH 5BH cc	Auxiliary channel1 Reverb send vv=00H-7FH
CONTROL 5DH	BnH 5DH cc	Auxiliary channel2 Effects send vv=00H-7FH (chorus,delay,distorcor)
CONTROL 77H	BnH 77H 00H	Reset all NRPN (see note 1).
CONTROL 78H	BnH 78H 00H	All sound off. (Abrut stop of sound on channel n)
CONTROL 79H	BnH 79H 00H	Reset all controllers
CONTROL 7BH	BnH 7BH 00H	All Notes Off
CONTROL 7EH	BnH 7EH 00H	Mono on
CONTROL 7FH	BnH 7FH 00H	Poly On (default)
CONTROL 54H	BnH 54H cc	Wha-Wha On/Off On=7FH Off=00h
CONTROL 55H	BnH 55H cc	Wha-Wha Amount cc=00H-7FH
CONTROL 1EH	BnH 1EH cc	Rotor cc=00H off, cc=40H slow, cc=7FH fast
CONTROL 1FH	BnH 1FH cc	Lyric color.
CONTROL 10H	BnH 10H 00H	Vocalizer midi mode on
CONTROL 11H	BnH 11H 08H	Vocalizer midi mode on
RPN 0000H	BnH 65H 00H 64H 00H 06H vv	Pitch Bend sensitivity in semitones (default vv=02H)
RPN 0001H	BnH 65H 00H 64H 01H 06H vv	Fine tuning in cents. vv=00H (-100) vv=40h (0) vv=7FH (+100)
RPN 0002H	BnH 65H 00H 64H 02H 06H vv	Coarse tuning in half-tones vv=00H (-64) vv=40H (0) vv=7FH (+64)
NRPN 0108H	BnH 65H 01H 64H 08H 06H vv	Lfo1 Rate modify (vv=40H no modify)
NRPN 0109H	BnH 65H 01H 64H 09H 06H vv	Dco Depth modify (vv=40H no modify)
NRPN 010AH	BnH 65H 01H 64H 0AH 06H vv	Lfo1 Delay modify (vv=40H no modify)
NRPN 0110H	BnH 65H 01H 64H 10H 06H vv	Lfo2 Rate modify (vv=40H no modify)
NRPN 0111H	BnH 65H 01H 64H 11H 06H vv	Lfo2 Delay modify (vv=40H no modify)
NRPN 0112H	BnH 65H 01H 64H 12H 06H vv	Dcf Depth modify (vv=40H no modify)
NRPN 0113H	BnH 65H 01H 64H 13H 06H vv	Dca Depth modify (vv=40H no modify)
NRPN 0120H	BnH 65H 01H 64H 20H 06H vv	TVF cutoff freq. modify (vv=40H no modify)
NRPN 0121H	BnH 65H 01H 64H 21H 06H vv	TVF Resonance modify (vv=40H no modify)
NRPN 0130H	BnH 65H 01H 64H 30H 06H vv	FM Amplitude1 (vv=40H no modify)
NRPN 0131H	BnH 65H 01H 64H 31H 06H vv	FM Amplitude2 (vv=40H no modify)
NRPN 0132H	BnH 65H 01H 64H 32H 06H vv	FM Amplitude3 (vv=40H no modify)
NRPN 0133H	BnH 65H 01H 64H 33H 06H vv	FM Amplitude4 (vv=40H no modify)
NRPN 0163H	BnH 65H 01H 64H 63H 06H vv	Env. attack time modify (vv=40H no modify)
NRPN 0164H	BnH 65H 01H 64H 64H 06H vv	Env. decay time modify (vv=40H no modify)
NRPN 0166H	BnH 65H 01H 64H 66H 06H vv	Env. release time modify (vv=40H no modify)
NRPN 016BH	BnH 65H 01H 64H 6BH 06H vv	Env. sustain time modify (vv=40H no modify)
NRPN 18rrH	BnH 65H 18H 64H rr 06H vv	Pitch Course of drum instr. in semitones rr=note vv=40H no modify (see note 2)
NRPN 19rrH	BnH 65H 19H 64H rr 06H vv	Pitch Fine of drum instr. in semitones rr=note vv=00h no modify vv=7FH +1/2 tone (see note 2)
NRPN 1ArrH	BnH 65H 1AH 64H rr 06H vv	Level of drum instr. note rr. vv=00h to 7FH (see note 2)
NRPN 1CrrH	BnH 65H 1CH 64H rr 06H vv	Pan of drum instr. note rr. vv=00h to 7FH (see note 2)
NRPN 1DrrH	BnH 65H 1DH 64H rr 06H vv	Reverb send level of drum instr. note rr. vv=00h to 7FH (see note 2)
NRPN 1ErrH	BnH 65H 1EH 64H rr 06H vv	Chorus send level of drum instr. note rr. vv=00h to 7FH (see note 2)

Vocalizer control list

CONTROL 5CH	BnH 5CH cc		Vocalizer Delay cc=00H-7FH
NRPN 6002H	BnH 65H 60H 64H 02H	06H vv	Direct Volume vv=00H-7FH
NRPN 6003H	BnH 65H 60H 64H 03H	06H vv	Vocalizer volume vv=00H-7FH
NRPN 600AH	BnH 65H 60H 64H 0AH	06H vv	Octave Voices
			vv = 0 -> -2 octave
			1 -> -1 octave
			2 -> no trasposed
			3 -> +1 octave
			4 -> +2 octave
			5 -> Automatic
NRPN 600BH	BnH 65H 60H 64H 0BH	06H vv	Singer Gender vv=00H (man) vv=01H (woman)
NRPN 6104H	BnH 65H 61H 64H 04H	06H vv	Formant Vocal Effects mode vv=00H-7FH
NRPN 6105H	BnH 65H 61H 64H 05H	06H vv	Frequency Vocal Effects mode vv=00H-26H
NRPN 6106H	BnH 65H 61H 64H 06H	06H vv	Resonance Vocal Effects mode vv=00H-07H
NRPN 6304H	BnH 65H 63H 64H 04H	06H vv	Volume voice 1 vv=00H-7FH
NRPN 6305H	BnH 65H 63H 64H 05H	06H vv	Volume voice 2 vv=00H-7FH
NRPN 6306H	BnH 65H 63H 64H 06H	06H vv	Volume voice 3 vv=00H-7FH
NRPN 6307H	BnH 65H 63H 64H 07H	06H vv	Formant voice 1 vv=00H-7FH
NRPN 6308H	BnH 65H 63H 64H 08H	06H vv	Formant voice 2 vv=00H-7FH
NRPN 6309H	BnH 65H 63H 64H 09H	06H vv	Formant voice 3 vv=00H-7FH
NRPN 630AH	BnH 65H 63H 64H 0AH	06H vv	Frequency voice 1 vv=00H-26H
NRPN 630BH	BnH 65H 63H 64H 0BH	06H vv	Frequency voice 2 vv=00H-26H
NRPN 630CH	BnH 65H 63H 64H 0CH	06H vv	Frequency voice 3 vv=00H-26H
NRPN 630DH	BnH 65H 63H 64H 0DH	06H vv	Resonance voice 1 vv=00H-07H
NRPN 630EH	BnH 65H 63H 64H 0EH	06H vv	Resonance voice 2 vv=00H-07H
NRPN 630FH	BnH 65H 63H 64H 0FH	06H vv	Resonance voice 3 vv=00H-07H
NRPN 6403H	BnH 65H 64H 64H 03H	06H vv	Limiter vv=00H-7FH
NRPN 6405H	BnH 65H 64H 64H 05H	06H vv	Vibrato depth vv=00H-7FH
NRPN 6406H	BnH 65H 64H 64H 06H	06H vv	Vibrato rate vv=00H-7FH
NRPN 6407H	BnH 65H 64H 64H 07H	06H vv	Vibrato delay vv=00H (Off) 01h-7FH (On)
NRPN 6414H	BnH 65H 64H 64H 14H	06H vv	Equalizer Direct LOW vv=00H-7FH
NRPN 6415H	BnH 65H 64H 64H 15H	06H vv	Equalizer Direct MID vv=00H-7FH
NRPN 6416H	BnH 65H 64H 64H 16H	06H vv	Equalizer Direct HIGH vv=00H-7FH
NRPN 641AH	BnH 65H 64H 64H 1AH	06H vv	Equalizer Vocalizer LOW vv=00H-7FH
NRPN 641BH	BnH 65H 64H 64H 1BH	06H vv	Equalizer Vocalizer MID vv=00H-7FH
NRPN 641CH	BnH 65H 64H 64H 1CH	06H vv	Equalizer Vocalizer HIGH vv=00H-7FH

note 1:

Reset NRPN. reset following NRPN:
 0108H,0109H,010AH,0110H,0111H,0112H,0113H,0120H,0121H,0130H,0131H,0132H
 0133H,0163H,0154H,0166H,016BH.
 If midi channel i a drumset channel following NRPN are also reset:
 18rrH,19rrH,1ArrH,1CrrH,1DrrH,1ErrH.

note 2:

if rr =	1 value refers to Kick	group
""	2 "" ""	Snare ""
""	3 "" ""	Hi-Hat ""
""	4 "" ""	Cymbal ""
""	5 "" ""	Tom ""
""	6 "" ""	Tamb. ""
""	7 "" ""	Latin1 ""
""	8 "" ""	Latin2 ""
""	9 "" ""	Latin3 ""
""	10 "" ""	clap/fx ""

System exclusive Ketron-SD1

TABS

FOH 26H 7CH Code_tab Status F7H

Code_tab = 00H - 7FH Tab code (see list)

Status = 7FH Tab pressed Status = 00H Tab released

Code_tab list:

00H Piano	10H Drawbars	20H Drum Vol-	30H Right Vol-
01H ElectricPno	11H Drum set	21H Drum Vol+	31H Right Vol+
02H Chrom	12H Single Regis	22H Drum Mixer	32H One Touch
03H Organ	13H Vocalizer	23H Tap Tempo	33H Bas to Root
04H Accordeon	14H Sampler	24H Bass Vol-	34H Pianist
05H Guitar	15H Sound Load	25H Bass Vol+	35H Not Used
06H Bass	16H On line Eff	26H Chord Vol+	36H Not Used
07H Strings	17H Style Sett.	27H Chord Vol-	37H Ram/Flash
08H Choir	18H Program	28H Orch. Vol-	38H Fill 1
09H Brass	19H User Voice	29H Orch. Vol+	39H Fill 2
0AH Sax	1AH Sequencer	2AH Lows Vol-	3AH Fill 3
0BH Flute	1BH Numeric #	2BH Lows Vol+	3BH Fill 4
0CH Pad	1CH Fade In/Out	2CH Arr. A	3CH 3 lock Regis
0DH Synth	1DH Intro/End1	2DH Arr. B	3DH Octave
0EH Ethnic	1EH Intro/End2	2EH Arr. C	3EH Block Styles
0FH Effects	1FH Intro/End3	2FH Arr. D	3FH Vocalizer On/Off

40H Bass Lowest	50H Key Start	60H Numb. 0	70H F1 (GM part)
41H Manual Bass	51H Key Stop	61H Numb. 1	71H F2 (Effects)
42H Jump	52H Manual Drum	62H Numb. 2	72H F3 (Utility)
43H Lock/Interactive	53H 2nd Voice	63H Numb. 3	73H F4 (Arr.Mode)
44H Master Folder	54H 2nd VoiEdit	64H Numb. 4	74H F5 (Arr.View)
45H Numeric *	55H Disk	65H Numb. 5	75H F6 (MIDI)
46H Song Record	56H Song Play	66H Numb. 6	76H F7 (Edit Voice)
47H Not Used	57H Not Used	67H Numb. 7	77H F8 (Program)
48H Portamento	58H Not Used	68H Numb. 8	78H F9 (edit Drum)
49H Harmony	59H Cursor <<	69H Numb. 9	79H F10(Edit Microphone)
4AH Pause etc.	5AH Cursor >>	6AH Enter/Save	7AH Patter Edit
4BH Tempo-	5BH Rotor	6BH Value-	7BH Not Used
4CH Tempo+	5CH To End	6CH Value+	7CH Not Used
4DH Start/Stop	5DH Split	6DH Page-	7DH Not Used
4EH Single style	5EH AfterTouch	6EH Page+	7EH Not Used
4FH Custom Style	5FH Exit	6FH Hold	7FH Not Used

FOOTSWITCH

FOH 26H 79H Code_footswitch Status F7H

Code_footswitch = 00H - 7FH Footswitch code (see list)

Status = 7FH Footswitch pressed Status = 00H Footswitch released

Code_footswitch list:

00H Sustain	10H Key Start	20H Hi-Hat Off	30H Chorus	40H Voice Down
01H Soft	11H Key Stop	21H Cymbal Off	31H Reverb	41H Voice Up
02H Sostenuto	12H Tap Tempo	22H Tom Off	32H Distorsor	42H Harmony
03H Arranger A	13H To End	23H Tamb. Off	33H Text Page -	43H Program
04H Arranger B	14H Regis Up	24H Latin1 Off	34H Text Page +	44H Swell
05H Arranger C	15H Regis Down	25H Latin2 Off	35H Vocalizer	45H Transp-
06H Arranger D	16H Tempo +	26H Latin3 Off	36H Jump	46H Transp+
07H In./End. 1	17H Tempo -	27H Clap/FxOff	37H Arabic_1	47H 2nd Voice
08H In./End. 2	18H minor	28H Drum Lock	38H Arabic_2	48H Hold

09H In./End. 3	19H 7th	29H Bass Lock	39H Arabic_3	49H Arabic_7
0AH Fill 1	1AH m7th	2AH Chord Lock	3AH Arabic_4	4AH Arabic_8
0BH Fill 2	1BH 5+	2BH Fall Off	3BH Arabic_5	4BH Arabic_9
0CH Fill 3	1CH dim	2CH Shake	3CH Arabic_6	4CH Arabic_10
0DH Break	1DH Glide	2DH Overdrive	3DH Micro Dry	4DH Arabic_11
0EH Start/Stop	1EH Kick Off	2EH Delay	3EH Fade Out	4EH Arabic_12
0FH Count In	1FH Snare Off	2FH Wha-Wha	3FH Crash	4FH Arabic_13

50H Left Drum

51H Interac. Arranger

52H Not Used 1

53H Not Used 2

PARAMETERS GENERAL FORM

FOH 26H 7BH Code Data_1..Data_n F7H

REVERB1 TYPE

FOH 26H 7BH 00H 00H Rev_type F7H	Rev_type = 00H Box_1	10H USER_REV1
	01H Box_2	11H USER_REV2
	. .	12H USER_REV3
	. .	13H USER_REV4
	0FH Galaxy	7FH OFF

REVERB2 TYPE (DRUMS)

FOH 26H 7BH 1FH 00H Drum_Rev_type F7H	Drum_Rev_type = 00H Room	05H Stage
	01H Studio	06H Arena
	02H Club	07H Reverb1 type
	03H Hall	7FH OFF
	04H Theatre	

REVERB2 TYPE (DRUMS)

FOH 26H 7BH 02H 00H Level F7H	Level = 00H - 10H
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REVERB2 LEVEL (DRUMS)

FOH 26H 7BH 20H 00H Drum_Level F7H	Drum_Level = 00H - 10H
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CHORUS TYPE

FOH 26H 7BH 01H 00H Cho_type F7H	Cho_type = 00H Chorus_1	08H USER_CHOR1
	01H Chorus_2	09H USER_CHOR2
	. .	0AH USER_CHOR3
	. .	0BH USER_CHOR4
	07H Feedback	7FH OFF

DELAY TYPE

FOH 26H 7BH 06H 00H Delay_type F7H	Delay_type = 00H Delay_1	08H USER_DEL.1
	01H Delay_2	09H USER_DEL.2
	. .	0AH USER_DEL.3
	. .	0BH USER_DEL.4
	07H Delay_8	7FH OFF

DISTORSOR TYPE

FOH 26H 7BH 11H 00H Dist_type F7H	Dist_type = 00H Distorsor1	08H USER_DIST1
	01H Distorsor2	09H USER_DIST2
	. .	0AH USER_DIST3
	. .	0BH USER_DIST4
	07H Distorsor8	7FH OFF

TYPE EFFECTS CHANNEL ASSIGN

FOH 26H 7BH 0BH 00H Chan Type F7H	Chan: 00H - 0FH Keyboard	10H - 1FH GM Song Play mode
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Type: 0 = no effects	5 = Delay + Chorus
1 = Leslie	6 = Distorsor + Chorus
2 = Distorsor	7 = Distorsor + Delay
3 = Chorus	8 = Distorsor + Delay + Chorus
4 = Delay	

CHORUS PARAMETERS

FOH 26H 7BH Cho_par 00H Value F7H

Cho_par:	3BH	Chorus Volume	Value 0 - 7FH
	74H	"" Delay	" 0 - 7FH
	75H	"" Feedback	" 0 - 7FH
	76H	"" Rate	" 0 - 7FH
	77H	"" Depth	" 0 - 7FH

DELAY PARAMETERS

FOH 26H 7BH Delay_par 00h Value F7H

Delay_par:	2BH	Delay Feed	Value 0 - 7FH
	2CH	" Filter	" 0 - 68H

Delay Time: FOH 26H 7BH 29h 00H Time_Center(0-7FH) Time_Left(0-7FH) Time_right(0-7FH) F7H

Delay Volume: FOH 26H 7BH 2Ah 00H Vol_Center(0-7FH) Vol_Left(0-7FH) Vol_right(0-7FH) F7H

DISTORSOR PARAMETERS

FOH 26H 7BH Dist_par 00H Value F7H

Dist_par:	22H	Distorsor Volume	Value 00H - 7FH
	25H	"" Tone	" 10H - 66H
	26H	"" Resonance	" 18H - 7FH

MICROPHONE PARAMETERS

FOH 26H 7BH Micro_par 00H Value F7H

Micro_par:	50H	Micro. ON/OFF	Value 00H = OFF; 7FH = ON	Micro_par:	55H	Micro. Right Echo	Value 00H - 7FH
	51H	Micro. Right Volume	Value 00H - 7FH		56H	Micro. Left Echo	Value 00H - 7FH
	52H	Micro. Left Volume	Value 00H - 7FH		57H	Micro. Right Reverb	Value 00H - 7FH
	53H	Micro. Right Pan	Value 00H - 7FH		58H	Micro. Left Reverb	Value 00H - 7FH
	54H	Micro. Left Pan	Value 00H - 7FH				

EQUALIZER PARAMETER

FOH 26H 7BH Equ_par 00H Value F7H Value 00H - 0CH; 00H = -6dB 0CH = +6dB

Equ_par: 78H Low 79H Mid 7aH High

SPLIT POINT

FOH 26H 7BH 03H 00H Key F7H Key = 00H - 7FH

GLOBAL TRANSPOSER

FOH 26H 7BH 07H 00H Value F7H Value = 28H - 58H; 40H = no transp.

STYLE NUMBER

FOH 26H 7BH 08H 00H Numc Numd F7H Numc=0-9 Numd = 0-99

Examples:

Numc=2 Numd=13 select style number 213

Numc=1 Numd=0 select style number 100

SONG NUMBER

FOH 26H 7BH 09H 00H Numc Numd F7H Numc=0-9 Numd = 0-99

Examples:

Numc=1 Numd=23 select song number 123 Numc=2 Numd=3 select song number 203

SCALE TUNING (ARABIC)

FOH 26H 7BH 0AH Chan Data1...Data12 F7H	Data: 00H-7FH; 40h = no detune
	Chan: 00H-0FH Chan: 7EH lower channels
	0H right channels 7FH all channels

MASTER TUNE

FOH 26H 7BH 0CH 00h Data1,Data2 F7H	Data1 00H-0CH high nibble	Data2 00H-0FH low nibble
Es. Data1=06h	Es. Data1=00h	Es. Data1=0Ch
Data2=04h no tune (64h)	Data2=00h -100% tune	Data2=08h +100% tune

GM PART MUTE

FOH 26H 7BH 0DH 00h	GMpart Value F7H	Value 00H = Mute Off, 7FH = Mute On	GMpart: 01H-10H; part GM
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GLOBAL GM RESET

FOH 26H 7BH 0EH 00h Value F7H	Value = 00H gm controls reset	Value = 01H gm controls reset + all note off
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GM DRUM PART

FOH 26H 7BH 0FH 00H GMpart Value F7	Value = 00H voice	Value = 01H drum	GMpart = 00H-0FH (from Part 1 to Part 16)
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GM MIDI RX CHANNEL ASSIGN

FOH 26H 7BH 12H 00H GMpart Chan F7H	Chan = 00H-10H, 00H=OFF	GMpart 00H-0FH
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GM MIDI TX CHANNEL ASSIGN

FOH 26H 7BH 18H 00H GMpart Chan F7H	Chan = 00H-10H, 00H=OF	GMpart 00H-0FH
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MIDI KEYBOARD RX CHANNEL ASSIGN

FOH 26H 7BH 13H 00H KeyPart Chan F7H	Chan = 00H-10H, 00H = OFF
KeyPart 0-19	0 = user/ram/drawbars 10 = chord 4 (orchestra)
	1 = 2nd voice 11 = chord 5 (orchestra)
	2 = lower 1 12 = preset/program.voice1
	3 = lower 2 13 = preset/program.voice2
	4 = bass 14 = preset/program.voice3
	5 = chord 1 (chord) 15 = preset/program.voice4
	6 = chord 2 (chord) 16 = right
	7 = chord 3 (chord) 17 = left
	8 = drum2 18 = global (left+right)
	9 = drum1 19 = registration

MIDI KEYBOARD TX CHANNEL ASSIGN

FOH 26H 7BH 19H 00H KeyPart Chan F7H	Chan = 00H-10H, 00H = OFF
KeyPart 0-19	0 = user/ram/drawbars 10 = chord 4 (orchestra)
	1 = 2nd voice 11 = chord 5 (orchestra)
	2 = lower 1 12 = preset/program.voice1
	3 = lower 2 13 = preset/program.voice2
	4 = bass 14 = preset/program.voice3
	5 = chord 1 (chord) 15 = preset/program.voice4
	6 = chord 2 (chord) 16 = right
	7 = chord 3 (chord) 17 = left
	8 = drum2 18 = global (left+right)
	9 = drum1 19 = registration

VELOCITY CURVE

FOH 26H 7BH 1BH 00H Curve F7H	Curve = 00H-0AH
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Curve: Soft1 = 00H	User1 = 06H
Soft2 = 01H	User2 = 06H
Normal= 02H	User3 = 08H
Hard1 = 03H	User4 = 09H
Hard2 = 04H	User5 = 0AH
Fixed = 05H	

FIXED VELOCITY CURVE VALUE

FOH 26H 7BH 16H 00H Value F7H Value = 01H-7FH

GM PART KEY-SHIFT

FOH 26H 7BH 1AH 00H GMPart Shift_value F7H GMPart = 00H-10H Shift_value = 10H-70H; No Shift=40H

LEFT LEVEL

FOH 26H 7BH 1CH 00H Left_level F7H Left_level 00h-7FH

SONG_BALANCE

FOH 26H 7BH 1DH 00H Song_balance F7H Song_balance 00h-7FH

REGISTRATION BANK & NUMBER

FOH 26H 7BH 1EH 00H Numc Numd F7H Numc=0-1 Numd = 0-99
Example: Numc=1 Numd=16 select regis number 116

GM FILTER

FOH 26H 7BH 2FH 00H Event GMPart Value F7H

Event: 0-13	0 = Note 8nh-9nh	7 = reverb
	1 = Control change Bnh	8 = chorus
	2 = Program change Bnh,00h-Cnh	9 = modul.
	3 = After touch Dnh	10 = expr.
	4 = Pitch bend En	11 = RPN
	5 = volume	12 = NRPN
	6 = pan	13 = Excl. Mess. (All Parts Only)

GMPart: 01h-10H (7fH = All Parts) Value: 00H = Off 01h = On

VELOCITY SLOPE

FOH 26H 7BH 3EH 00H Part Value F7H Part : 01H-20H (01H-10H Keyboard Part; 11H-20H GM Part (Song Play)) Value: 00H-7fH

VELOCITY OFFSET

FOH 26H 7BH 3FH 00H Part Value F7H Part : 01H-20H (01H-10H Keyboard Part; 11H-20H GM Part (Song Play)) Value: 00H-7fH

FILTER VELOCITY SLOPE

FOH 26H 7BH 40H 00H Part Value F7H Part : 01H-20H (01H-10H keyboard Part; 11H-20H GM Part (Song Play)) Value: 00H-7fH

FILTER VELOCITY OFFSET

FOH 26H 7BH 41H 00H Part Value F7H Part : 01H-20H (01H-10H keyboard Part; 11H-20H GM Part (Song Play)) Value: 00H-7fH

MODULATION, BEND, AFTERTOUCH, VOICES CONTROLS

FOH 26H 7BH CNTRL 00H Part Value F7H Part : 01H-20H (01H-10H keyboard Part; 11H-20H GM Part (Song Play)) Value: 00H-7fH

CNTRL: 42H mod. pitch ctrl	48H mod. lfo tva depth
43H mod. tvf cutoff	49H bend pitch control
44H mod. lfo amplitude	4AH bend tvf cutoff
45H mod. lfo rate	4BH bend amplitude
46H mod. lfo pitch depth	4CH bend lfo pitch
47H mod. lfo tvf depth	4DH bend lfo tvf

CNTRL:	4EH bend lfo tva	60h Voices pitch ctrl
	59H AfterTouch pitch ctrl	61h Voices tvf cutoff
	5AH AfterTouch tvf cutoff	62h Voices amplitude
	5BH AfterTouch amplitude	63h Voice lfo pitch
	5CH AfterTouch lfo pitch	64h Voices lfo tvf dpth
	5DH AfterTouch lfo tvf depth	65h Voices lfo tva dpth
	5EH AfterTouch lfo tva depth	

GENERAL MIDI VOLUME

FOH 26H 7BH 38H 00H Value F7H	Value 00-7FH default: 7FH
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GENERAL MIDI PAN

FOH 26H 7BH 39H 00H Value F7H	Value 00-7FH default: 40H
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DISK MIDI PORT

FOH 26H 7BH 30H 00H Value F7H	Value: 00h == Midi GM	01h == Midi keyboard
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LOCK KEYBOARD MULTIPLE EFFECTS

FOH 26H 7BH 32H 00H Value F7H	Value: 00h == Unlock	7fh == Lock
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PITCH SHIFT OFF

FOH 26H 7BH 27H 00 Part_Off F7H	Part_Off 00h - 0fh (0-15)
MSP or WAVE NAME assignment to GM part	FOH 26H 7BH 28H 00 Part ('M' or 'W' or 'I')[1byte],NAME[8bytes] F7H
Part 00h - 0fh M= MSP; W = WAVE; I=INS	NAME file name (8 bytes)

DRAWBARS

FOH 26H 7BH 40H 00H Drawbar Value F7H	Valu: 00H-7FH
Drawbar: 40H = 16'	45H = 2
41H = 8'	46H = 1 3/5
42H = 5 1/3'	47H = 1
43H = 4'	4AH = percussion 4
44H = 2 2/3	4BH = percussion 2 2/3

Vocalizer System exclusive list

Assign Gm Part to Vocalizer:

FOH 26H 7BH 33H 00H Part Value F7H	Part: 00H-0FH GM Part	Value: 00H = Off	Value: 01H = Vocalizer assign part
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Assign vocalizer Mode:

Only with Value=2 Midi Notes are sent to vocalist

FOH 26H 7BH 34H 00H Value F7H	Value: 00H Autochord mode	03H Fixed Interval mode
	01H Autochord2 mode	04H Vocal Effects mode
	02H Harmony mode	

Vocalizer Preset:

FOH 26H 7BH 35H 00H Value F7H		
Value: AUTOCHORD	Value: 0 = Trio Standard	6 = Trio Octa4
	1 = Trio Up	7 = Duet Open
	2 = Trio Down	8 = Duet Down
	3 = Trio Octa1	9 = Duet Up
	4 = Trio Octa2	10 = 3 Open1
	5 = Trio Octa3	11 = 3 Open2

AUTOCHORD2	Value: 0 = Full Trio 1	3 = Jazz Trio 1
	1 = Full Trio 2	4 = Jazz Trio 2
	2 = Full Trio 3	5 = Jazz Trio 3
HARMONY	Value: 0 = Harmony Right	5 = Jazz 1
	1 = Harmony Left	6 = Jazz 2
	2 = Full 1	7 = Jazz 3
	3 = Full 2	8 = Midi Mode
FIXED INTERVAL	Value: 0 = Unison	6 = 5th Down
	1 = Octave Up	7 = 5th Up
	2 = Octave Down	8 = Lead+5th Down
	3 = Octave Up/Down	9 = Lead+5th Up
	4 = Lead+Octa. Down	10 = 3th Up
VOCAL EFFECTS	Value: 0 = Bass	6 = Soprano
	1 = Falsetto	7 = Gorilla
	2 = Baby	8 = E.T.
	3 = Megaphone	9 = Alien
	4 = Mickey Mouse	10 = Rapper
	5 = Bear	11 = Cartoon

Vocalizer Active/Disactive

FOH 26H 7BH 36H 00H Value F7H	Value: 00H Disactive	7fH Active
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Vocalizer Mode Set 0-15

FOH 26H 7BH 37H 00H Value F7H	Value: 0-15	Mode Set 01-16
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Vocalizer Hold On/Off

FOH 26H 7BH 6BH 00H Value F7H	Value: 00H Off	7fH On
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Vocalizer Modulation on/off

FOH 26H 7BH 6CH 00H Value F7H	Value: 00H Off	7fH On
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Vocalizer Pitch Bend on/off

FOH 26H 7BH 6DH 00H Value F7H	Value: 00H Off	7fH On
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Vocalizer Lead on/off

FOH 26H 7BH 6EH 00H Value F7H	Value: 00H Off	7fH On
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