MIDI Implementation

Model : SY-300
Date : May 28th, 2015
Version : 1.00

Recognized Receive data

Channel Voice Messages

Received when the “SYSTEM: MIDI SETTING: RX CHANNEL” matches the number
of the MIDI channel on which they arrive. Also, when “Omni Mode” for
“SYSTEM: MIDI SETTING: OMNI MODE” is set to “ON,” all MIDI channel numbers are received,
regardless of the MIDI receive channel number.

Control Change

Bank Select

Status	2nd byte	3rd byte
BnH	00H	mmH
BnH	20H	00H

n = MIDI Channel Number : 0H - FH(0 - 15) 0=ch.1 15=ch.16
mm = Bank number (MSB) : 00H - 7FH (0 - 1)

* After start-up, theSY-300 will operate with bank number 00H until it receives a bank select.

Control Change Number #1 - #31, #64 - #95

Status	2nd Byte	3rd Byte
BnH	ccH	vvH

n = MIDI Channel Number : 0H - FH(0 - 15) 0=ch.1 15=ch.16
cc = Control Change Number : 01H - 1FH(1 - 31) 40H - 5FH(64-95)
vv = Value : 00H - 7FH(0 - 127)

You can use control change messages from an USB (computer) to control functions that would be
difficult to control using the SY-300's own controllers.
"MIDI" In "Editing: Assigning Favorite Parameters to the Switches and External Pedals" of Owner's Manual,
set "SOURCE NUMBER" to "CC#1-#31, CC#64-#95" and set "TARGET" to specify the parameter that will be controlled.

Program Change

Status	2nd Byte
CnH	ppH

n = MIDI Channel Number : 0H - FH (0 - 15) 0 = ch.1 15 = ch.16
pp = Program Number : 00H - 62H (0 - 98) 0 = patch number 1, 98 = patch number 99

* Patches will be selected according to the program number that is received.
* Patches are changed as shown below in correspondence with the bank number and
program number received when “SYSTEM: MIDI SETTING: MAP SELECT” is set to “FIX.”

BANK MSB	BANK LSB	PROG CHG	PATCH
00H	00H	00H	#U01
:	:	:	
00H	00H	62H	#U99
01H	00H	00H	#P01
:	:	:	
01H	00H	45H	#P70

* When “SYSTEM: MIDI SETTING: MAP SELECT” is set to “PROG,” patches change in
accord with the patch settings made for “SYSTEM: MIDI PROGRAM CHG MAP.”

System Realtime Message

Timing Clock

Status
F8H

If an oscillator or effect parameter is set as a note value, the effect of that parameter is synchronized with the MIDI clock.
* This is valid if "SYSTEM: MIDI: SYNC CLOCK" is set to AUTO, MIDI (AUTO), or USB (AUTO).

Start

Status
FAH

The oscillator or effect begins synchronization with the MIDI clock.
* This is valid if "SYSTEM: MIDI: SYNC CLOCK" is set to AUTO, MIDI (AUTO), or USB (AUTO).

Continue

Status
FBH

The oscillator or effect resumes synchronization with the MIDI clock from the position at which synchronization stopped when FC was received.
* This is valid if "SYSTEM: MIDI: SYNC CLOCK" is set to AUTO, MIDI (AUTO), or USB (AUTO).

Stop

Status
FCH

The oscillator or effect stops synchronization with the MIDI clock.
* This is valid if "SYSTEM: MIDI: SYNC CLOCK" is set to AUTO, MIDI (AUTO), or USB (AUTO).

Active Sensing

Status
FEH

* When an Active Sensing message is received, the interval of all subsequent messages will begin to be monitored. If an interval greater than 400 msec. between messages, the display will indicate “MIDI OFFLINE!.”

System Exclusive Message

Status	Data Byte	Status
F0H	41H, ddH, ..., eeH	F7H

Byte	Explanation
F0H:	System Exclusive Message status
41H:	Manufacturer ID (Roland)
dd,...,ee = data:	00H-7FH(0-127)
F7H:	EOX(End Of Exclusive)

Universal Non-Realtime System Exclusive Messages

Identity Request Message (Device Inquiry)

Status	Data Byte	Status
F0H	7EH, ddH, 06H, 01H,	F7H

Byte	Explanation
F0H	Exclusive status
7EH	ID number (Universal Non-realtime Message)
ddH	Device ID (dev: 00H-1FH, 7FH) * 7FH = BroadCast
06H	Sub ID # 1 (General Information)
01H	Sub ID # 2 (Identity Request)
F7H	EOX (End Of Exclusive)

When this message is received, Identity Reply message will be transmitted. (please see “Transmitted data")

ONE WAY COMMUNICATION

Request Data 1 RQ1 (11H)

Status	Data Byte	Status
F0H,	41H, ddH, 00H, 00H, 00H, 13G, 11H, aaH, bbH, ccH, ddH, ssH, ttH, uuH, vvH, csH,	F7H

Byte	Explanation
F0H	Exclusive status
41H	ManufacturerID (Roland)
ddH	Device ID (00H-1FH, 7FH) * 7FH = Broad Cast
00H	Model ID # 1 (SY-300)
00H	Model ID # 2 (SY-300)
00H	Model ID # 3 (SY-300)
13G	Model ID # 4 (SY-300)
11H	Command ID (Data Request)
aaH	Address MSB
bbH	Address
ccH	Address
ddH	Address LSB
ssH	Size MSB
ttH	Size
uuH	Size
vvH	Size LSB
csH	Check Sum
F7H	EOX (End Of Exclusive)

Data Set1 DT1 (12H)

Status	Data Byte	Status
F0H,	41H, ddH, 00H, 00H, 00H, 13G, 12H, aaH, bbH, ccH, ddH, eeH, ... ffH, csH,	F7H

Byte	Explanation
F0H	Exclusive status
41H	ManufacturerID (Roland)
ddH	Device ID (00H-1FH, 7FH) * 7FH = Broad Cast
00H	Model ID # 1 (SY-300)
00H	Model ID # 2 (SY-300)
00H	Model ID # 3 (SY-300)
13G	Model ID # 4 (SY-300)
12H	Command ID (Data Set)
aaH	Address MSB
bbH	Address
ccH	Address
ddH	Address LSB
eeH	Data
:	
ffH	Data
csH	Check Sum
F7H	EOX (End Of Exclusive)

Transmitted data

Channel Voice Messages

For the MIDI transmit channel number for Channel Voice messages, set “SYSTEM: MIDI SETTING: TX CHANNEL.”

Bank Select

Status	2nd byte	3rd byte
BnH	00H	mmH
BnH	20H	00H

n = MIDI Channel Number : 0H - FH(0 - 15) 0=ch.1 15=ch.16
mm = Bank number (MSB) : 00H - 7FH (0 - 1)

* If you set up a system parameter “SYSTEM: MIDI SETTING: PC OUT” for “ON,” program change information is transmitted when switching patch.

Control Change #1 - #31, #64 - #95

Status	2nd Byte	3rd Byte
BnH	ccH	vvH

n = MIDI Channel Number : 0H - FH(0 - 15) 0=ch.1 15=ch.16
cc = Control Change Number : 00H, 0BH, 20H(0, 11, 32)
vv = Value : 00H - 7FH(0 - 127)

* If you set up a control change number at a system parameter “SYSTEM: MIDI SETTING” control change information is transmitted when operating each controllers.

Program Change

Status	2nd Byte
CnH	ppH

n = MIDI Channel Number : 0H - FH (0 - 15) 0 = ch.1 15 = ch.16
pp = Program Number : 00H - 62H (0 - 98) 0 = patch number 1, 98 = patch number 99

* If you set up a system parameter “SYSTEM: MIDI SETTING: PC OUT” for “ON,” program change information is transmitted when switching patch.

	BANK		PROG
PATCH	MSB	LSB	CHG
#U01	00H	00H	00H
:	:	:	
#U99	00H	00H	62H
#P01	01H	00H	00H
:	:	:	
#P70	01H	00H	45H

System Realtime Message

Timing Clock

Status
F8H

* These messages are outputted at all times, at an interval according to the tempo of SY-300. Please see the "Parameter list" about details.

Active Sensing

Status
FEH

* This is transmitted at intervals of approximately 200 msec.

System Exclusive Message

Status	Data Byte	Status
F0H	41H, ddH, ..., eeH	F7H

Byte	Explanation
F0H:	System Exclusive Message status
41H:	Manufacturer ID (Roland)
dd,...,ee = data:	00H-7FH(0-127)
F7H:	EOX(End Of Exclusive)

Universal Non-Realtime System Exclusive Messages

Identity Reply Message (Device Inquiry)

Status	Data Byte	Status
F0H,	7EH, ddH, 06H, 02H, 41H, 13G, 03H, 00H, 00H, x1H, x2H, x3H, x4H,	F7

Byte	Explanation
F0H	Exclusive status
7EH	ID number (Universal Non-realtime Message)
ddH	Device ID (10H)
06H	Sub ID # 1 (General Information)
02H	Sub ID # 2 (Identity Reply)
41H	Manufacturer ID (Roland)
13H 03H	Device family code # 1 (SY-300)
00H 00H	Device family code # 2 (SY-300)
x1H	Software revision level # 1
x2H	Software revision level # 2
x3H	Software revision level # 3
x4H	Software revision level # 4
F7H	EOX (End of Exclusive)

Receiving Identity Request Message , the SY-300 send this message.

ONE WAY COMMUNICATION

Data Set1 DT1 (12H)

Status	Data Byte	Status
F0H,	41H, ddH, 00H, 00H, 00H, 13G, 12H, aaH, bbH, ccH, ddH, eeH, ... ffH, csH,	F7H

Byte	Explanation
F0H	Exclusive status
41H	ManufacturerID (Roland)
ddH	Device ID (00H-1FH, 7FH) * 7FH = Broad Cast
00H	Model ID # 1 (SY-300)
00H	Model ID # 2 (SY-300)
00H	Model ID # 3 (SY-300)
13G	Model ID # 4 (SY-300)
12H	Command ID (Data Set)
aaH	Address MSB
bbH	Address
ccH	Address
ddH	Address LSB
eeH	Data
:	
ffH	Data
csH	Check Sum
F7H	EOX (End Of Exclusive)

System Exclusive Address Map

Start Address	Description
00 00 00 00	Setup
10 00 00 00	System
20 00 00 00	Patch (Temporary)
20 04 00 00	Patch (User 1)
:	:
23 0C 00 00	Patch (User 99)
30 00 00 00	SYSTEMP

* Setup

Offset Address	Description
00 00 00	Setup Common

* System

Offset Address	Description
00 00 00	System Common
00 08 00	System CTL
00 10 00	System PCMAP

* Patch

Offset Address	Description
00 00 00	Patch Common
00 08 00	Patch CTL
00 10 00	Patch Synth/Fx Chain
00 18 00	Patch Oscillator Common
00 20 00	Patch Oscillator (1)
00 28 00	Patch Oscillator (2)
00 30 00	Patch Oscillator (3)
00 38 00	Patch FX (1)
00 40 00	Patch FX (2)
00 48 00	Patch FX (3)
00 50 00	Patch FX (4)

* SYSTEMP

Offset Address	Description
00 00 00	SYSTEMP Common
00 08 00	SYSTEMP BLENDER
00 10 00	SYSTEMP ASSIGNPRESET

* Setup Common Parameters Offset Address

Offset Address	Description	ByteSize		
00 00	0000 aaaa	2	Current Patch Number	(0 - 168) 1 - 169
	0000 bbbb			

* System Common Parameters Offset Address

Offset Address	Description	ByteSize		
00 00	0000 00dd	1	Noise Filter	(0 - 2) OFF, 50Hz, 60Hz
00 01	0000 00dd	1	Input Setting	(0 - 2) SET1, SET2, SET3
00 02	0ddd dddd	1	Input Sens1	(0 - 100) -50 - +50
00 03	0ddd dddd	1	Low Balance1	(0 - 100) -50 - +50

00 04	0ddd dddd	1	High Balance1	(0 - 100) -50 - +50
00 05	0000 000d	1	Input Bass Mode1	(0 - 1) OFF, ON
00 06	0ddd dddd	1	Input Sens2	(0 - 100) -50 - +50
00 07	0ddd dddd	1	Low Balance2	(0 - 100) -50 - +50
00 08	0ddd dddd	1	High Balance2	(0 - 100) -50 - +50
00 09	0000 000d	1	Input Bass Mode2	(0 - 1) OFF, ON
00 0A	0ddd dddd	1	Input Sens3	(0 - 100) -50 - +50
00 0B	0ddd dddd	1	Low Balance3	(0 - 100) -50 - +50
00 0C	0ddd dddd	1	High Balance3	(0 - 100) -50 - +50
00 0D	0000 000d	1	Input Bass Mode3	(0 - 1) OFF, ON
00 0E	0000 000d	1	Output Select	(0 - 1) LINE, AMP
00 0F	0000 0000	1	Reserved	(0 - 0) 0 - 0
00 10	0000 000d	1	Main Output Off Mode	(0 - 1) BYPASS, SYNTH OFF
00 11	0000 00dd	1	Sub Output Off Mode	(0 - 2) MUTE, BYPASS, ALWAYS ON
00 12	0000 000d	1	Sub Output System Control	(0 - 1) OFF, ON
00 13	0ddd dddd	1	Sub Output Level	(0 - 100) 0 - 200
00 14	000d dddd	1	Sub Output System Position	(0 - 16) INPUT, OSC 1 OUT, OSC 2 OUT, OSC 3 OUT, ASGN IN 1, ASGN IN 2, ASGN IN 3, ASGN OUT A, ASGN OUT B, OSCMIX IN A, OSCMIX IN B, OSCMIX OUT, RETURN, OUTMIX IN S, OUTMIX IN R, OUTMIX OUT, MAIN OUT
00 15	0000 000d	1	Main Global EQ Off/On	(0 - 1) OFF, ON
00 16	00dd dddd	1	Main Global EQ Low Gain 100Hz	(0 - 40) -20dB - +20dB
00 17	00dd dddd	1	Main Global EQ High Gain 10kHz	(0 - 40) -20dB - +20dB
00 18	000d dddd	1	Main Global EQ Low-Mid Freq	(0 - 27) 20.0Hz, 25.0Hz, 31.5Hz, 40.0Hz, 50.0Hz, 63.0Hz, 80.0Hz, 100Hz, 125Hz, 160Hz, 200Hz, 250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz, 2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz, 5.00kHz, 6.30kHz, 8.00kHz, 10.0kHz
00 19	0000 0ddd	1	Main Global EQ Low-Mid Q	(0 - 5) 0.5, 1, 2, 4, 8, 16
00 1A	00dd dddd	1	Main Global EQ Low-Mid Gain	(0 - 40) -20dB - +20dB
00 1B	000d dddd	1	Main Global EQ High-Mid Freq	(0 - 27) 20.0Hz, 25.0Hz, 31.5Hz, 40.0Hz, 50.0Hz, 63.0Hz, 80.0Hz, 100Hz, 125Hz, 160Hz, 200Hz, 250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz, 2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz, 5.00kHz, 6.30kHz, 8.00kHz, 10.0kHz
00 1C	0000 0ddd	1	Main Global EQ High-Mid Q	(0 - 5) 0.5, 1, 2, 4, 8, 16
00 1D	00dd dddd	1	Main Global EQ High-Mid Gain	(0 - 40) -20dB - +20dB
00 1E	0000 000d	1	Sub Global EQ Off/On	(0 - 1) OFF, ON
00 1F	00dd dddd	1	Sub Global EQ Low Gain 100Hz	(0 - 40) -20dB - +20dB
00 20	00dd dddd	1	Sub Global EQ High Gain 10kHz	(0 - 40) -20dB - +20dB
00 21	000d dddd	1	Sub Global EQ Low-Mid Freq	(0 - 27) 20.0Hz, 25.0Hz, 31.5Hz, 40.0Hz, 50.0Hz, 63.0Hz, 80.0Hz, 100Hz, 125Hz, 160Hz, 200Hz,
00 22	0000 0ddd	1	Sub Global EQ Low-Mid Q	(0 - 5) 0.5, 1, 2, 4, 8, 16
00 23	00dd dddd	1	Sub Global EQ Low-Mid Gain	(0 - 40) -20dB - +20dB
00 24	000d dddd	1	Sub Global EQ High-Mid Freq	(0 - 27) 20.0Hz, 25.0Hz, 31.5Hz, 40.0Hz, 50.0Hz, 63.0Hz, 80.0Hz, 100Hz, 125Hz, 160Hz, 200Hz,
00 25	0000 0ddd	1	Sub Global EQ High-Mid Q	(0 - 5) 0.5, 1, 2, 4, 8, 16
00 26	00dd dddd	1	Sub Global EQ High-Mid Gain	(0 - 40) -20dB - +20dB
00 27	0000 dddd	1	MIDI Rx Channel	(0 - 15)

					CH.1 - CH.16
00 28	0000 000d	1	MIDI Omni Mode	(0 - 1)	
					OFF, ON
00 29	0000 dddd	1	MIDI Tx Channel	(0 - 15)	
					CH.1 - CH.16
00 2A	0000 00dd	1	MIDI Sync Clock	(0 - 3)	
					INTERNAL, AUTO, MIDI (AUTO), USB (AUTO)
00 2B	0000 0000	2	Reserved	(0 - 0)	
					0 - 0
00 2D	0000 000d	1	MIDI MAP Select	(0 - 1)	
					FIX, PROG
00 2E	0000 000d	1	MIDI Program Change Output	(0 - 1)	
					OFF, ON
00 2F	00dd dddd	1	MIDI CTL1 Out	(0 - 63)	
					OFF, CC#1 - 31, CC#64 - 95
00 30	00dd dddd	1	MIDI CTL2 Out	(0 - 63)	
					OFF, CC#1 - 31, CC#64 - 95
00 31	00dd dddd	1	MIDI CTL3 Out	(0 - 63)	
					OFF, CC#1 - 31, CC#64 - 95
00 32	00dd dddd	1	MIDI CTL4 Out	(0 - 63)	
					OFF, CC#1 - 31, CC#64 - 95
00 33	00dd dddd	1	MIDI CTL5 Out	(0 - 63)	
					OFF, CC#1 - 31, CC#64 - 95
00 34	00dd dddd	1	MIDI EXP Out	(0 - 63)	
					OFF, CC#1 - 31, CC#64 - 95
00 35	0ddd dddd	1	Usb Audio Main Mix Level	(0 - 100)	
					0 - 200
00 36	0ddd dddd	1	Usb Audio Sub Mix Level	(0 - 100)	
					0 - 200
00 37	0ddd dddd	1	Usb Audio Output Level	(0 - 100)	
					0 - 200
00 38	0000 aaaa	3	Knob Setting1	(0 - 4095)	
					0 - 4095
	0000 bbbb				
	0000 cccc				
00 3B	0000 aaaa	3	Knob Setting2	(0 - 4095)	
					0 - 4095
	0000 bbbb				
	0000 cccc				
00 3E	0000 aaaa	3	Knob Setting3	(0 - 4095)	
					0 - 4095
	0000 bbbb				
	0000 cccc				
00 41	0000 aaaa	3	Knob Setting4	(0 - 4095)	
					0 - 4095
	0000 bbbb				
	0000 cccc				
00 44	0000 aaaa	3	Knob Setting5	(0 - 4095)	
					0 - 4095
	0000 bbbb				
	0000 cccc				
00 47	0000 aaaa	3	Knob Setting6	(0 - 4095)	
					0 - 4095
	0000 bbbb				
	0000 cccc				
00 4A	0000 aaaa	3	Knob Setting7	(0 - 4095)	
					0 - 4095
	0000 bbbb				
	0000 cccc				
00 4D	0000 aaaa	3	Knob Setting8	(0 - 4095)	
					0 - 4095
	0000 bbbb				
	0000 cccc				
00 50	0000 000d	1	Patch Extent Switch	(0 - 1)	
					OFF, ON
00 51	0000 aaaa	2	Patch Extent Start	(0 - 168)	
					U01 - U99, P01 - P70
	0000 bbbb				
00 53	0000 aaaa	2	Patch Extent End	(0 - 168)	
					U01 - U99, P01 - P70
	0000 bbbb				
00 55	0000 dddd	1	Tuner Pitch	(0 - 10)	
					435Hz, 436Hz, 437Hz, 438Hz, 439Hz,
					440Hz, 441Hz, 442Hz, 443Hz, 444Hz, 445Hz
00 56	0000 000d	1	Tuner Sound	(0 - 1)	
					MUTE, BYPASS
00 57	0000 000d	1	MIDI Clock Out	(0 - 1)	
					OFF, ON
00 58	0000 00dd	1	MIDI Input Thru	(0 - 3)	
					OFF, MIDI OUT, USB OUT, USB/ MIDI
00 59	0000 00dd	1	MIDI USB Input Thru	(0 - 3)	
					OFF, MIDI OUT, USB OUT, USB/ MIDI
00 5A	0000 00dd	1	TOP page display mode	(0 - 3)	
					PLAY, QUICK1, QUICK2, SWSTATE
00 5B	0000 000d	1	USB Audio Mix Off Mode	(0 - 1)	
					OFF, ALWAYS ON
00 5C	0000 000d	1	Input Comp Sw1	(0 - 1)	
					OFF, ON
00 5D	0ddd dddd	1	Input Comp Attack1	(0 - 100)	

				0 - 100
00 5E	0ddd dddd	1	Input Comp Sustain1	(0 - 100)
				0 - 100
00 5F	0ddd dddd	1	Input Comp Level1	(0 - 100)
				0 - 100
00 60	0000 000d	1	Input Comp Sw2	(0 - 1)
				OFF, ON
00 61	0ddd dddd	1	Input Comp Attack2	(0 - 100)
				0 - 100
00 62	0ddd dddd	1	Input Comp Sustain2	(0 - 100)
				0 - 100
00 63	0ddd dddd	1	Input Comp Level2	(0 - 100)
				0 - 100
00 64	0000 000d	1	Input Comp Sw3	(0 - 1)
				OFF, ON
00 65	0ddd dddd	1	Input Comp Attack3	(0 - 100)
				0 - 100
00 66	0ddd dddd	1	Input Comp Sustain3	(0 - 100)
				0 - 100
00 67	0ddd dddd	1	Input Comp Level3	(0 - 100)
				0 - 100
00 68	0000 00dd	1	OUTPUT LEVEL Mode	(0 - 3)
				MAIN &SUB, MAIN, SUB, OFF
00 69	0ddd dddd	1	Main Output Fixed Level	(0 - 100)
				0 - 200
00 6A	0ddd dddd	1	Sub Output Fixed Level	(0 - 100)
				0 - 200
00 6B	0000 0000	8	Reserved	(0 - 0)
				0 - 0

* System CTL Parameters Offset Address

Offset Address	Description	ByteSize	
00 00	0000 000d	1	CTL2 Down Or CTL (0 - 1) PATCH DOWN, CTL2
00 01	0000 000d	1	CTL3 Up Or CTL (0 - 1) PATCH UP, CTL3
00 02	0000 000d	1	Assign Hold Switch (0 - 1) OFF, ON
00 03	0000 000d	1	CTL1 SYSTEM PATCH 1 (0 - 1) PATCH, SYSTEM
00 04	0000 000d	1	CTL1 SYSTEM PATCH 2 (0 - 1) PATCH, SYSTEM
00 05	0000 000d	1	CTL1 SYSTEM PATCH 3 (0 - 1) PATCH, SYSTEM
00 06	0000 000d	1	CTL1 SYSTEM PATCH 4 (0 - 1) PATCH, SYSTEM
00 07	0000 000d	1	CTL1 SYSTEM PATCH 5 (0 - 1) PATCH, SYSTEM
00 08	0000 000d	1	CTL1 SYSTEM PATCH 6 (0 - 1) PATCH, SYSTEM
00 09	0000 000d	1	CTL1 Assign Preset/Manual 1 (0 - 1) PRESET, MANUAL
00 0A	0000 000d	1	CTL1 Assign Preset/Manual 2 (0 - 1) PRESET, MANUAL
00 0B	0000 000d	1	CTL1 Assign Preset/Manual 3 (0 - 1) PRESET, MANUAL
00 0C	0000 000d	1	CTL1 Assign Preset/Manual 4 (0 - 1) PRESET, MANUAL
00 0D	0000 000d	1	CTL1 Assign Preset/Manual 5 (0 - 1) PRESET, MANUAL
00 0E	0000 000d	1	CTL1 Assign Preset/Manual 6 (0 - 1) PRESET, MANUAL
00 0F	0000 aaaa	3	CTL1 Assign Target 1 (0 - 4095) 0 - 4095
	0000 bbbb		
	0000 cccc		
00 12	0000 aaaa	3	CTL1 Assign Target 2 (0 - 4095) 0 - 4095
	0000 bbbb		
	0000 cccc		
00 15	0000 aaaa	3	CTL1 Assign Target 3 (0 - 4095) 0 - 4095
	0000 bbbb		
	0000 cccc		
00 18	0000 aaaa	3	CTL1 Assign Target 4 (0 - 4095) 0 - 4095
	0000 bbbb		
	0000 cccc		
00 1B	0000 aaaa	3	CTL1 Assign Target 5 (0 - 4095) 0 - 4095
	0000 bbbb		
	0000 cccc		
00 1E	0000 aaaa	3	CTL1 Assign Target 6 (0 - 4095) 0 - 4095
	0000 bbbb		

	0000 cccc				
00 21	0000 aaaa	4	CTL1 Assign Target Min 1		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
00 25	0000 aaaa	4	CTL1 Assign Target Min 2		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
00 29	0000 aaaa	4	CTL1 Assign Target Min 3		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
00 2D	0000 aaaa	4	CTL1 Assign Target Min 4		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
00 31	0000 aaaa	4	CTL1 Assign Target Min 5		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
00 35	0000 aaaa	4	CTL1 Assign Target Min 6		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
00 39	0000 aaaa	4	CTL1 Assign Target Max 1		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
00 3D	0000 aaaa	4	CTL1 Assign Target Max 2		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
00 41	0000 aaaa	4	CTL1 Assign Target Max 3		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
00 45	0000 aaaa	4	CTL1 Assign Target Max 4		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
00 49	0000 aaaa	4	CTL1 Assign Target Max 5		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
00 4D	0000 aaaa	4	CTL1 Assign Target Max 6		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
00 51	0000 000d	1	CTL1 Source Mode 1		(0 - 1)
					MOMENT, TOGGLE
00 52	0000 000d	1	CTL1 Source Mode 2		(0 - 1)
					MOMENT, TOGGLE
00 53	0000 000d	1	CTL1 Source Mode 3		(0 - 1)
					MOMENT, TOGGLE
00 54	0000 000d	1	CTL1 Source Mode 4		(0 - 1)
					MOMENT, TOGGLE
00 55	0000 000d	1	CTL1 Source Mode 5		(0 - 1)
					MOMENT, TOGGLE
00 56	0000 000d	1	CTL1 Source Mode 6		(0 - 1)
					MOMENT, TOGGLE
00 57	0ddd dddd	1	CTL1 Assign Source Range Min 1		(0 - 126)
					0 - 126
00 58	0ddd dddd	1	CTL1 Assign Source Range Min 2		(0 - 126)
					0 - 126
00 59	0ddd dddd	1	CTL1 Assign Source Range Min 3		(0 - 126)
					0 - 126
00 5A	0ddd dddd	1	CTL1 Assign Source Range Min 4		(0 - 126)
					0 - 126
00 5B	0ddd dddd	1	CTL1 Assign Source Range Min 5		(0 - 126)
					0 - 126
00 5C	0ddd dddd	1	CTL1 Assign Source Range Min 6		(0 - 126)
					0 - 126
00 5D	0ddd dddd	1	CTL1 Assign Source Range Max 1		(1 - 127)
					1 - 127
00 5E	0ddd dddd	1	CTL1 Assign Source Range Max 2		(1 - 127)
					1 - 127

00 5F	0ddd dddd	1	CTL1 Assign Source Range Max 3	(1 - 127)	1 - 127
00 60	0ddd dddd	1	CTL1 Assign Source Range Max 4	(1 - 127)	1 - 127
00 61	0ddd dddd	1	CTL1 Assign Source Range Max 5	(1 - 127)	1 - 127
00 62	0ddd dddd	1	CTL1 Assign Source Range Max 6	(1 - 127)	1 - 127
00 63	0ddd dddd	1	CTL1 Legato Rise Time 1	(0 - 100)	0 - 100
00 64	0ddd dddd	1	CTL1 Legato Rise Time 2	(0 - 100)	0 - 100
00 65	0ddd dddd	1	CTL1 Legato Rise Time 3	(0 - 100)	0 - 100
00 66	0ddd dddd	1	CTL1 Legato Rise Time 4	(0 - 100)	0 - 100
00 67	0ddd dddd	1	CTL1 Legato Rise Time 5	(0 - 100)	0 - 100
00 68	0ddd dddd	1	CTL1 Legato Rise Time 6	(0 - 100)	0 - 100
00 69	0ddd dddd	1	CTL1 Legato Fall Time 1	(0 - 100)	0 - 100
00 6A	0ddd dddd	1	CTL1 Legato Fall Time 2	(0 - 100)	0 - 100
00 6B	0ddd dddd	1	CTL1 Legato Fall Time 3	(0 - 100)	0 - 100
00 6C	0ddd dddd	1	CTL1 Legato Fall Time 4	(0 - 100)	0 - 100
00 6D	0ddd dddd	1	CTL1 Legato Fall Time 5	(0 - 100)	0 - 100
00 6E	0ddd dddd	1	CTL1 Legato Fall Time 6	(0 - 100)	0 - 100
00 6F	0000 00dd	1	CTL1 Legato Rise Curve 1	(0 - 2)	LINEAR, SLOW RISE, FAST RISE
00 70	0000 00dd	1	CTL1 Legato Rise Curve 2	(0 - 2)	LINEAR, SLOW RISE, FAST RISE
00 71	0000 00dd	1	CTL1 Legato Rise Curve 3	(0 - 2)	LINEAR, SLOW RISE, FAST RISE
00 72	0000 00dd	1	CTL1 Legato Rise Curve 4	(0 - 2)	LINEAR, SLOW RISE, FAST RISE
00 73	0000 00dd	1	CTL1 Legato Rise Curve 5	(0 - 2)	LINEAR, SLOW RISE, FAST RISE
00 74	0000 00dd	1	CTL1 Legato Rise Curve 6	(0 - 2)	LINEAR, SLOW RISE, FAST RISE
00 75	0000 00dd	1	CTL1 Legato Fall Curve 1	(0 - 2)	LINEAR, SLOW FALL, FAST FALL
00 76	0000 00dd	1	CTL1 Legato Fall Curve 2	(0 - 2)	LINEAR, SLOW FALL, FAST FALL
00 77	0000 00dd	1	CTL1 Legato Fall Curve 3	(0 - 2)	LINEAR, SLOW FALL, FAST FALL
00 78	0000 00dd	1	CTL1 Legato Fall Curve 4	(0 - 2)	LINEAR, SLOW FALL, FAST FALL
00 79	0000 00dd	1	CTL1 Legato Fall Curve 5	(0 - 2)	LINEAR, SLOW FALL, FAST FALL
00 7A	0000 00dd	1	CTL1 Legato Fall Curve 6	(0 - 2)	LINEAR, SLOW FALL, FAST FALL
00 7B	0000 aaaa 0000 bbbb	2	CTL1 Patch Select Number 1	(0 - 168)	U01 - U99, P01 - P70
00 7D	0000 aaaa 0000 bbbb	2	CTL1 Patch Select Number 2	(0 - 168)	U01 - U99, P01 - P70
00 7F	0000 aaaa 0000 bbbb	2	CTL1 Patch Select Number 3	(0 - 168)	U01 - U99, P01 - P70
01 01	0000 aaaa 0000 bbbb	2	CTL1 Patch Select Number 4	(0 - 168)	U01 - U99, P01 - P70
01 03	0000 aaaa 0000 bbbb	2	CTL1 Patch Select Number 5	(0 - 168)	U01 - U99, P01 - P70
01 05	0000 aaaa 0000 bbbb	2	CTL1 Patch Select Number 6	(0 - 168)	U01 - U99, P01 - P70
01 07	0000 000d	1	CTL2 SYSTEM PATCH 1	(0 - 1)	PATCH, SYSTEM
01 08	0000 000d	1	CTL2 SYSTEM PATCH 2	(0 - 1)	PATCH, SYSTEM
01 09	0000 000d	1	CTL2 SYSTEM PATCH 3	(0 - 1)	PATCH, SYSTEM
01 0A	0000 000d	1	CTL2 SYSTEM PATCH 4	(0 - 1)	PATCH, SYSTEM
01 0B	0000 000d	1	CTL2 SYSTEM PATCH 5	(0 - 1)	PATCH, SYSTEM
01 0C	0000 000d	1	CTL2 SYSTEM PATCH 6	(0 - 1)	PATCH, SYSTEM
01 0D	0000 000d	1	CTL2 Assign Preset/Manual 1	(0 - 1)	PRESET, MANUAL
01 0E	0000 000d	1	CTL2 Assign Preset/Manual 2	(0 - 1)	

					PRESET, MANUAL
01 0F	0000 000d	1	CTL2 Assign Preset/Manual 3		(0 - 1)
					PRESET, MANUAL
01 10	0000 000d	1	CTL2 Assign Preset/Manual 4		(0 - 1)
					PRESET, MANUAL
01 11	0000 000d	1	CTL2 Assign Preset/Manual 5		(0 - 1)
					PRESET, MANUAL
01 12	0000 000d	1	CTL2 Assign Preset/Manual 6		(0 - 1)
					PRESET, MANUAL
01 13	0000 aaaa	3	CTL2 Assign Target 1		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
01 16	0000 aaaa	3	CTL2 Assign Target 2		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
01 19	0000 aaaa	3	CTL2 Assign Target 3		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
01 1C	0000 aaaa	3	CTL2 Assign Target 4		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
01 1F	0000 aaaa	3	CTL2 Assign Target 5		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
01 22	0000 aaaa	3	CTL2 Assign Target 6		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
01 25	0000 aaaa	4	CTL2 Assign Target Min 1		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 29	0000 aaaa	4	CTL2 Assign Target Min 2		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 2D	0000 aaaa	4	CTL2 Assign Target Min 3		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 31	0000 aaaa	4	CTL2 Assign Target Min 4		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 35	0000 aaaa	4	CTL2 Assign Target Min 5		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 39	0000 aaaa	4	CTL2 Assign Target Min 6		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 3D	0000 aaaa	4	CTL2 Assign Target Max 1		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 41	0000 aaaa	4	CTL2 Assign Target Max 2		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 45	0000 aaaa	4	CTL2 Assign Target Max 3		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 49	0000 aaaa	4	CTL2 Assign Target Max 4		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 4D	0000 aaaa	4	CTL2 Assign Target Max 5		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 51	0000 aaaa	4	CTL2 Assign Target Max 6		(0 - 65535) offset:32768

					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 55	0000 000d	1	CTL2 Source Mode 1		(0 - 1)
					MOMENT, TOGGLE
01 56	0000 000d	1	CTL2 Source Mode 2		(0 - 1)
					MOMENT, TOGGLE
01 57	0000 000d	1	CTL2 Source Mode 3		(0 - 1)
					MOMENT, TOGGLE
01 58	0000 000d	1	CTL2 Source Mode 4		(0 - 1)
					MOMENT, TOGGLE
01 59	0000 000d	1	CTL2 Source Mode 5		(0 - 1)
					MOMENT, TOGGLE
01 5A	0000 000d	1	CTL2 Source Mode 6		(0 - 1)
					MOMENT, TOGGLE
01 5B	0ddd dddd	1	CTL2 Assign Source Range Min 1		(0 - 126)
					0 - 126
01 5C	0ddd dddd	1	CTL2 Assign Source Range Min 2		(0 - 126)
					0 - 126
01 5D	0ddd dddd	1	CTL2 Assign Source Range Min 3		(0 - 126)
					0 - 126
01 5E	0ddd dddd	1	CTL2 Assign Source Range Min 4		(0 - 126)
					0 - 126
01 5F	0ddd dddd	1	CTL2 Assign Source Range Min 5		(0 - 126)
					0 - 126
01 60	0ddd dddd	1	CTL2 Assign Source Range Min 6		(0 - 126)
					0 - 126
01 61	0ddd dddd	1	CTL2 Assign Source Range Max 1		(1 - 127)
					1 - 127
01 62	0ddd dddd	1	CTL2 Assign Source Range Max 2		(1 - 127)
					1 - 127
01 63	0ddd dddd	1	CTL2 Assign Source Range Max 3		(1 - 127)
					1 - 127
01 64	0ddd dddd	1	CTL2 Assign Source Range Max 4		(1 - 127)
					1 - 127
01 65	0ddd dddd	1	CTL2 Assign Source Range Max 5		(1 - 127)
					1 - 127
01 66	0ddd dddd	1	CTL2 Assign Source Range Max 6		(1 - 127)
					1 - 127
01 67	0ddd dddd	1	CTL2 Legato Rise Time 1		(0 - 100)
					0 - 100
01 68	0ddd dddd	1	CTL2 Legato Rise Time 2		(0 - 100)
					0 - 100
01 69	0ddd dddd	1	CTL2 Legato Rise Time 3		(0 - 100)
					0 - 100
01 6A	0ddd dddd	1	CTL2 Legato Rise Time 4		(0 - 100)
					0 - 100
01 6B	0ddd dddd	1	CTL2 Legato Rise Time 5		(0 - 100)
					0 - 100
01 6C	0ddd dddd	1	CTL2 Legato Rise Time 6		(0 - 100)
					0 - 100
01 6D	0ddd dddd	1	CTL2 Legato Fall Time 1		(0 - 100)
					0 - 100
01 6E	0ddd dddd	1	CTL2 Legato Fall Time 2		(0 - 100)
					0 - 100
01 6F	0ddd dddd	1	CTL2 Legato Fall Time 3		(0 - 100)
					0 - 100
01 70	0ddd dddd	1	CTL2 Legato Fall Time 4		(0 - 100)
					0 - 100
01 71	0ddd dddd	1	CTL2 Legato Fall Time 5		(0 - 100)
					0 - 100
01 72	0ddd dddd	1	CTL2 Legato Fall Time 6		(0 - 100)
					0 - 100
01 73	0000 00dd	1	CTL2 Legato Rise Curve 1		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
01 74	0000 00dd	1	CTL2 Legato Rise Curve 2		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
01 75	0000 00dd	1	CTL2 Legato Rise Curve 3		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
01 76	0000 00dd	1	CTL2 Legato Rise Curve 4		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
01 77	0000 00dd	1	CTL2 Legato Rise Curve 5		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
01 78	0000 00dd	1	CTL2 Legato Rise Curve 6		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
01 79	0000 00dd	1	CTL2 Legato Fall Curve 1		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
01 7A	0000 00dd	1	CTL2 Legato Fall Curve 2		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
01 7B	0000 00dd	1	CTL2 Legato Fall Curve 3		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
01 7C	0000 00dd	1	CTL2 Legato Fall Curve 4		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
01 7D	0000 00dd	1	CTL2 Legato Fall Curve 5		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
01 7E	0000 00dd	1	CTL2 Legato Fall Curve 6		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
01 7F	0000 aaaa	2	CTL2 Patch Select Number 1		(0 - 168)

					U01 - U99, P01 - P70
	0000 bbbb				
02 01	0000 aaaa	2	CTL2 Patch Select Number 2		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
02 03	0000 aaaa	2	CTL2 Patch Select Number 3		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
02 05	0000 aaaa	2	CTL2 Patch Select Number 4		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
02 07	0000 aaaa	2	CTL2 Patch Select Number 5		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
02 09	0000 aaaa	2	CTL2 Patch Select Number 6		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
02 0B	0000 000d	1	CTL3 SYSTEM PATCH 1		(0 - 1)
					PATCH, SYSTEM
02 0C	0000 000d	1	CTL3 SYSTEM PATCH 2		(0 - 1)
					PATCH, SYSTEM
02 0D	0000 000d	1	CTL3 SYSTEM PATCH 3		(0 - 1)
					PATCH, SYSTEM
02 0E	0000 000d	1	CTL3 SYSTEM PATCH 4		(0 - 1)
					PATCH, SYSTEM
02 0F	0000 000d	1	CTL3 SYSTEM PATCH 5		(0 - 1)
					PATCH, SYSTEM
02 10	0000 000d	1	CTL3 SYSTEM PATCH 6		(0 - 1)
					PATCH, SYSTEM
02 11	0000 000d	1	CTL3 Assign Preset/Manual 1		(0 - 1)
					PRESET, MANUAL
02 12	0000 000d	1	CTL3 Assign Preset/Manual 2		(0 - 1)
					PRESET, MANUAL
02 13	0000 000d	1	CTL3 Assign Preset/Manual 3		(0 - 1)
					PRESET, MANUAL
02 14	0000 000d	1	CTL3 Assign Preset/Manual 4		(0 - 1)
					PRESET, MANUAL
02 15	0000 000d	1	CTL3 Assign Preset/Manual 5		(0 - 1)
					PRESET, MANUAL
02 16	0000 000d	1	CTL3 Assign Preset/Manual 6		(0 - 1)
					PRESET, MANUAL
02 17	0000 aaaa	3	CTL3 Assign Target 1		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
02 1A	0000 aaaa	3	CTL3 Assign Target 2		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
02 1D	0000 aaaa	3	CTL3 Assign Target 3		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
02 20	0000 aaaa	3	CTL3 Assign Target 4		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
02 23	0000 aaaa	3	CTL3 Assign Target 5		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
02 26	0000 aaaa	3	CTL3 Assign Target 6		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
02 29	0000 aaaa	4	CTL3 Assign Target Min 1		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
02 2D	0000 aaaa	4	CTL3 Assign Target Min 2		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
02 31	0000 aaaa	4	CTL3 Assign Target Min 3		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
02 35	0000 aaaa	4	CTL3 Assign Target Min 4		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
02 39	0000 aaaa	4	CTL3 Assign Target Min 5		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				

		0000 dddd			
	02 3D	0000 aaaa	4	CTL3 Assign Target Min 6	(0 - 65535) offset:32768
					-32768 - 32767
		0000 bbbb			
		0000 cccc			
		0000 dddd			
	02 41	0000 aaaa	4	CTL3 Assign Target Max 1	(0 - 65535) offset:32768
					-32768 - 32767
		0000 bbbb			
		0000 cccc			
		0000 dddd			
	02 45	0000 aaaa	4	CTL3 Assign Target Max 2	(0 - 65535) offset:32768
					-32768 - 32767
		0000 bbbb			
		0000 cccc			
		0000 dddd			
	02 49	0000 aaaa	4	CTL3 Assign Target Max 3	(0 - 65535) offset:32768
					-32768 - 32767
		0000 bbbb			
		0000 cccc			
		0000 dddd			
	02 4D	0000 aaaa	4	CTL3 Assign Target Max 4	(0 - 65535) offset:32768
					-32768 - 32767
		0000 bbbb			
		0000 cccc			
		0000 dddd			
	02 51	0000 aaaa	4	CTL3 Assign Target Max 5	(0 - 65535) offset:32768
					-32768 - 32767
		0000 bbbb			
		0000 cccc			
		0000 dddd			
	02 55	0000 aaaa	4	CTL3 Assign Target Max 6	(0 - 65535) offset:32768
					-32768 - 32767
		0000 bbbb			
		0000 cccc			
		0000 dddd			
	02 59	0000 000d	1	CTL3 Source Mode 1	(0 - 1)
					MOMENT, TOGGLE
	02 5A	0000 000d	1	CTL3 Source Mode 2	(0 - 1)
					MOMENT, TOGGLE
	02 5B	0000 000d	1	CTL3 Source Mode 3	(0 - 1)
					MOMENT, TOGGLE
	02 5C	0000 000d	1	CTL3 Source Mode 4	(0 - 1)
					MOMENT, TOGGLE
	02 5D	0000 000d	1	CTL3 Source Mode 5	(0 - 1)
					MOMENT, TOGGLE
	02 5E	0000 000d	1	CTL3 Source Mode 6	(0 - 1)
					MOMENT, TOGGLE
	02 5F	0ddd dddd	1	CTL3 Assign Source Range Min 1	(0 - 126)
					0 - 126
	02 60	0ddd dddd	1	CTL3 Assign Source Range Min 2	(0 - 126)
					0 - 126
	02 61	0ddd dddd	1	CTL3 Assign Source Range Min 3	(0 - 126)
					0 - 126
	02 62	0ddd dddd	1	CTL3 Assign Source Range Min 4	(0 - 126)
					0 - 126
	02 63	0ddd dddd	1	CTL3 Assign Source Range Min 5	(0 - 126)
					0 - 126
	02 64	0ddd dddd	1	CTL3 Assign Source Range Min 6	(0 - 126)
					0 - 126
	02 65	0ddd dddd	1	CTL3 Assign Source Range Max 1	(1 - 127)
					1 - 127
	02 66	0ddd dddd	1	CTL3 Assign Source Range Max 2	(1 - 127)
					1 - 127
	02 67	0ddd dddd	1	CTL3 Assign Source Range Max 3	(1 - 127)
					1 - 127
	02 68	0ddd dddd	1	CTL3 Assign Source Range Max 4	(1 - 127)
					1 - 127
	02 69	0ddd dddd	1	CTL3 Assign Source Range Max 5	(1 - 127)
					1 - 127
	02 6A	0ddd dddd	1	CTL3 Assign Source Range Max 6	(1 - 127)
					1 - 127
	02 6B	0ddd dddd	1	CTL3 Legato Rise Time 1	(0 - 100)
					0 - 100
	02 6C	0ddd dddd	1	CTL3 Legato Rise Time 2	(0 - 100)
					0 - 100
	02 6D	0ddd dddd	1	CTL3 Legato Rise Time 3	(0 - 100)
					0 - 100
	02 6E	0ddd dddd	1	CTL3 Legato Rise Time 4	(0 - 100)
					0 - 100
	02 6F	0ddd dddd	1	CTL3 Legato Rise Time 5	(0 - 100)
					0 - 100
	02 70	0ddd dddd	1	CTL3 Legato Rise Time 6	(0 - 100)
					0 - 100
	02 71	0ddd dddd	1	CTL3 Legato Fall Time 1	(0 - 100)
					0 - 100
	02 72	0ddd dddd	1	CTL3 Legato Fall Time 2	(0 - 100)
					0 - 100
	02 73	0ddd dddd	1	CTL3 Legato Fall Time 3	(0 - 100)

					0 - 100
02 74	0ddd dddd	1	CTL3 Legato Fall Time 4		(0 - 100)
					0 - 100
02 75	0ddd dddd	1	CTL3 Legato Fall Time 5		(0 - 100)
					0 - 100
02 76	0ddd dddd	1	CTL3 Legato Fall Time 6		(0 - 100)
					0 - 100
02 77	0000 00dd	1	CTL3 Legato Rise Curve 1		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
02 78	0000 00dd	1	CTL3 Legato Rise Curve 2		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
02 79	0000 00dd	1	CTL3 Legato Rise Curve 3		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
02 7A	0000 00dd	1	CTL3 Legato Rise Curve 4		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
02 7B	0000 00dd	1	CTL3 Legato Rise Curve 5		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
02 7C	0000 00dd	1	CTL3 Legato Rise Curve 6		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
02 7D	0000 00dd	1	CTL3 Legato Fall Curve 1		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
02 7E	0000 00dd	1	CTL3 Legato Fall Curve 2		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
02 7F	0000 00dd	1	CTL3 Legato Fall Curve 3		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
03 00	0000 00dd	1	CTL3 Legato Fall Curve 4		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
03 01	0000 00dd	1	CTL3 Legato Fall Curve 5		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
03 02	0000 00dd	1	CTL3 Legato Fall Curve 6		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
03 03	0000 aaaa	2	CTL3 Patch Select Number 1		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
03 05	0000 aaaa	2	CTL3 Patch Select Number 2		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
03 07	0000 aaaa	2	CTL3 Patch Select Number 3		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
03 09	0000 aaaa	2	CTL3 Patch Select Number 4		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
03 0B	0000 aaaa	2	CTL3 Patch Select Number 5		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
03 0D	0000 aaaa	2	CTL3 Patch Select Number 6		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
03 0F	0000 000d	1	CTL4 SYSTEM PATCH 1		(0 - 1)
					PATCH, SYSTEM
03 10	0000 000d	1	CTL4 SYSTEM PATCH 2		(0 - 1)
					PATCH, SYSTEM
03 11	0000 000d	1	CTL4 SYSTEM PATCH 3		(0 - 1)
					PATCH, SYSTEM
03 12	0000 000d	1	CTL4 SYSTEM PATCH 4		(0 - 1)
					PATCH, SYSTEM
03 13	0000 000d	1	CTL4 SYSTEM PATCH 5		(0 - 1)
					PATCH, SYSTEM
03 14	0000 000d	1	CTL4 SYSTEM PATCH 6		(0 - 1)
					PATCH, SYSTEM
03 15	0000 000d	1	CTL4 Assign Preset/Manual 1		(0 - 1)
					PRESET, MANUAL
03 16	0000 000d	1	CTL4 Assign Preset/Manual 2		(0 - 1)
					PRESET, MANUAL
03 17	0000 000d	1	CTL4 Assign Preset/Manual 3		(0 - 1)
					PRESET, MANUAL
03 18	0000 000d	1	CTL4 Assign Preset/Manual 4		(0 - 1)
					PRESET, MANUAL
03 19	0000 000d	1	CTL4 Assign Preset/Manual 5		(0 - 1)
					PRESET, MANUAL
03 1A	0000 000d	1	CTL4 Assign Preset/Manual 6		(0 - 1)
					PRESET, MANUAL
03 1B	0000 aaaa	3	CTL4 Assign Target 1		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
03 1E	0000 aaaa	3	CTL4 Assign Target 2		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
03 21	0000 aaaa	3	CTL4 Assign Target 3		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
03 24	0000 aaaa	3	CTL4 Assign Target 4		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				

03 27	0000 aaaa	3	CTL4 Assign Target 5	(0 - 4095)	
				0 - 4095	
	0000 bbbb				
	0000 cccc				
03 2A	0000 aaaa	3	CTL4 Assign Target 6	(0 - 4095)	
				0 - 4095	
	0000 bbbb				
	0000 cccc				
03 2D	0000 aaaa	4	CTL4 Assign Target Min 1	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 31	0000 aaaa	4	CTL4 Assign Target Min 2	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 35	0000 aaaa	4	CTL4 Assign Target Min 3	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 39	0000 aaaa	4	CTL4 Assign Target Min 4	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 3D	0000 aaaa	4	CTL4 Assign Target Min 5	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 41	0000 aaaa	4	CTL4 Assign Target Min 6	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 45	0000 aaaa	4	CTL4 Assign Target Max 1	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 49	0000 aaaa	4	CTL4 Assign Target Max 2	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 4D	0000 aaaa	4	CTL4 Assign Target Max 3	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 51	0000 aaaa	4	CTL4 Assign Target Max 4	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 55	0000 aaaa	4	CTL4 Assign Target Max 5	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 59	0000 aaaa	4	CTL4 Assign Target Max 6	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 5D	0000 000d	1	CTL4 Source Mode 1	(0 - 1)	
				MOMENT, TOGGLE	
03 5E	0000 000d	1	CTL4 Source Mode 2	(0 - 1)	
				MOMENT, TOGGLE	
03 5F	0000 000d	1	CTL4 Source Mode 3	(0 - 1)	
				MOMENT, TOGGLE	
03 60	0000 000d	1	CTL4 Source Mode 4	(0 - 1)	
				MOMENT, TOGGLE	
03 61	0000 000d	1	CTL4 Source Mode 5	(0 - 1)	
				MOMENT, TOGGLE	
03 62	0000 000d	1	CTL4 Source Mode 6	(0 - 1)	
				MOMENT, TOGGLE	
03 63	0ddd dddd	1	CTL4 Assign Source Range Min 1	(0 - 126)	
				0 - 126	
03 64	0ddd dddd	1	CTL4 Assign Source Range Min 2	(0 - 126)	
				0 - 126	
03 65	0ddd dddd	1	CTL4 Assign Source Range Min 3	(0 - 126)	
				0 - 126	
03 66	0ddd dddd	1	CTL4 Assign Source Range Min 4	(0 - 126)	
				0 - 126	
03 67	0ddd dddd	1	CTL4 Assign Source Range Min 5	(0 - 126)	

					0 - 126
03 68	0ddd dddd	1	CTL4 Assign Source Range Min 6		(0 - 126)
					0 - 126
03 69	0ddd dddd	1	CTL4 Assign Source Range Max 1		(1 - 127)
					1 - 127
03 6A	0ddd dddd	1	CTL4 Assign Source Range Max 2		(1 - 127)
					1 - 127
03 6B	0ddd dddd	1	CTL4 Assign Source Range Max 3		(1 - 127)
					1 - 127
03 6C	0ddd dddd	1	CTL4 Assign Source Range Max 4		(1 - 127)
					1 - 127
03 6D	0ddd dddd	1	CTL4 Assign Source Range Max 5		(1 - 127)
					1 - 127
03 6E	0ddd dddd	1	CTL4 Assign Source Range Max 6		(1 - 127)
					1 - 127
03 6F	0ddd dddd	1	CTL4 Legato Rise Time 1		(0 - 100)
					0 - 100
03 70	0ddd dddd	1	CTL4 Legato Rise Time 2		(0 - 100)
					0 - 100
03 71	0ddd dddd	1	CTL4 Legato Rise Time 3		(0 - 100)
					0 - 100
03 72	0ddd dddd	1	CTL4 Legato Rise Time 4		(0 - 100)
					0 - 100
03 73	0ddd dddd	1	CTL4 Legato Rise Time 5		(0 - 100)
					0 - 100
03 74	0ddd dddd	1	CTL4 Legato Rise Time 6		(0 - 100)
					0 - 100
03 75	0ddd dddd	1	CTL4 Legato Fall Time 1		(0 - 100)
					0 - 100
03 76	0ddd dddd	1	CTL4 Legato Fall Time 2		(0 - 100)
					0 - 100
03 77	0ddd dddd	1	CTL4 Legato Fall Time 3		(0 - 100)
					0 - 100
03 78	0ddd dddd	1	CTL4 Legato Fall Time 4		(0 - 100)
					0 - 100
03 79	0ddd dddd	1	CTL4 Legato Fall Time 5		(0 - 100)
					0 - 100
03 7A	0ddd dddd	1	CTL4 Legato Fall Time 6		(0 - 100)
					0 - 100
03 7B	0000 00dd	1	CTL4 Legato Rise Curve 1		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
03 7C	0000 00dd	1	CTL4 Legato Rise Curve 2		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
03 7D	0000 00dd	1	CTL4 Legato Rise Curve 3		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
03 7E	0000 00dd	1	CTL4 Legato Rise Curve 4		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
03 7F	0000 00dd	1	CTL4 Legato Rise Curve 5		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
04 00	0000 00dd	1	CTL4 Legato Rise Curve 6		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
04 01	0000 00dd	1	CTL4 Legato Fall Curve 1		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
04 02	0000 00dd	1	CTL4 Legato Fall Curve 2		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
04 03	0000 00dd	1	CTL4 Legato Fall Curve 3		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
04 04	0000 00dd	1	CTL4 Legato Fall Curve 4		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
04 05	0000 00dd	1	CTL4 Legato Fall Curve 5		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
04 06	0000 00dd	1	CTL4 Legato Fall Curve 6		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
04 07	0000 aaaa	2	CTL4 Patch Select Number 1		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
04 09	0000 aaaa	2	CTL4 Patch Select Number 2		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
04 0B	0000 aaaa	2	CTL4 Patch Select Number 3		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
04 0D	0000 aaaa	2	CTL4 Patch Select Number 4		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
04 0F	0000 aaaa	2	CTL4 Patch Select Number 5		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
04 11	0000 aaaa	2	CTL4 Patch Select Number 6		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
04 13	0000 000d	1	CTL5 SYSTEM PATCH 1		(0 - 1)
					PATCH, SYSTEM
04 14	0000 000d	1	CTL5 SYSTEM PATCH 2		(0 - 1)
					PATCH, SYSTEM
04 15	0000 000d	1	CTL5 SYSTEM PATCH 3		(0 - 1)
					PATCH, SYSTEM
04 16	0000 000d	1	CTL5 SYSTEM PATCH 4		(0 - 1)
					PATCH, SYSTEM

04 17	0000 000d	1	CTL5 SYSTEM PATCH 5	(0 - 1)	
				PATCH, SYSTEM	
04 18	0000 000d	1	CTL5 SYSTEM PATCH 6	(0 - 1)	
				PATCH, SYSTEM	
04 19	0000 000d	1	CTL5 Assign Preset/Manual 1	(0 - 1)	
				PRESET, MANUAL	
04 1A	0000 000d	1	CTL5 Assign Preset/Manual 2	(0 - 1)	
				PRESET, MANUAL	
04 1B	0000 000d	1	CTL5 Assign Preset/Manual 3	(0 - 1)	
				PRESET, MANUAL	
04 1C	0000 000d	1	CTL5 Assign Preset/Manual 4	(0 - 1)	
				PRESET, MANUAL	
04 1D	0000 000d	1	CTL5 Assign Preset/Manual 5	(0 - 1)	
				PRESET, MANUAL	
04 1E	0000 000d	1	CTL5 Assign Preset/Manual 6	(0 - 1)	
				PRESET, MANUAL	
04 1F	0000 aaaa	3	CTL5 Assign Target 1	(0 - 4095)	
				0 - 4095	
	0000 bbbb				
	0000 cccc				
04 22	0000 aaaa	3	CTL5 Assign Target 2	(0 - 4095)	
				0 - 4095	
	0000 bbbb				
	0000 cccc				
04 25	0000 aaaa	3	CTL5 Assign Target 3	(0 - 4095)	
				0 - 4095	
	0000 bbbb				
	0000 cccc				
04 28	0000 aaaa	3	CTL5 Assign Target 4	(0 - 4095)	
				0 - 4095	
	0000 bbbb				
	0000 cccc				
04 2B	0000 aaaa	3	CTL5 Assign Target 5	(0 - 4095)	
				0 - 4095	
	0000 bbbb				
	0000 cccc				
04 2E	0000 aaaa	3	CTL5 Assign Target 6	(0 - 4095)	
				0 - 4095	
	0000 bbbb				
	0000 cccc				
04 31	0000 aaaa	4	CTL5 Assign Target Min 1	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 35	0000 aaaa	4	CTL5 Assign Target Min 2	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 39	0000 aaaa	4	CTL5 Assign Target Min 3	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 3D	0000 aaaa	4	CTL5 Assign Target Min 4	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 41	0000 aaaa	4	CTL5 Assign Target Min 5	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 45	0000 aaaa	4	CTL5 Assign Target Min 6	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 49	0000 aaaa	4	CTL5 Assign Target Max 1	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 4D	0000 aaaa	4	CTL5 Assign Target Max 2	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 51	0000 aaaa	4	CTL5 Assign Target Max 3	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 55	0000 aaaa	4	CTL5 Assign Target Max 4	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				

	0000 dddd				
04 59	0000 aaaa	4	CTL5 Assign Target Max 5		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 5D	0000 aaaa	4	CTL5 Assign Target Max 6		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 61	0000 000d	1	CTL5 Source Mode 1		(0 - 1)
					MOMENT, TOGGLE
04 62	0000 000d	1	CTL5 Source Mode 2		(0 - 1)
					MOMENT, TOGGLE
04 63	0000 000d	1	CTL5 Source Mode 3		(0 - 1)
					MOMENT, TOGGLE
04 64	0000 000d	1	CTL5 Source Mode 4		(0 - 1)
					MOMENT, TOGGLE
04 65	0000 000d	1	CTL5 Source Mode 5		(0 - 1)
					MOMENT, TOGGLE
04 66	0000 000d	1	CTL5 Source Mode 6		(0 - 1)
					MOMENT, TOGGLE
04 67	0ddd dddd	1	CTL5 Assign Source Range Min 1		(0 - 126)
					0 - 126
04 68	0ddd dddd	1	CTL5 Assign Source Range Min 2		(0 - 126)
					0 - 126
04 69	0ddd dddd	1	CTL5 Assign Source Range Min 3		(0 - 126)
					0 - 126
04 6A	0ddd dddd	1	CTL5 Assign Source Range Min 4		(0 - 126)
					0 - 126
04 6B	0ddd dddd	1	CTL5 Assign Source Range Min 5		(0 - 126)
					0 - 126
04 6C	0ddd dddd	1	CTL5 Assign Source Range Min 6		(0 - 126)
					0 - 126
04 6D	0ddd dddd	1	CTL5 Assign Source Range Max 1		(1 - 127)
					1 - 127
04 6E	0ddd dddd	1	CTL5 Assign Source Range Max 2		(1 - 127)
					1 - 127
04 6F	0ddd dddd	1	CTL5 Assign Source Range Max 3		(1 - 127)
					1 - 127
04 70	0ddd dddd	1	CTL5 Assign Source Range Max 4		(1 - 127)
					1 - 127
04 71	0ddd dddd	1	CTL5 Assign Source Range Max 5		(1 - 127)
					1 - 127
04 72	0ddd dddd	1	CTL5 Assign Source Range Max 6		(1 - 127)
					1 - 127
04 73	0ddd dddd	1	CTL5 Legato Rise Time 1		(0 - 100)
					0 - 100
04 74	0ddd dddd	1	CTL5 Legato Rise Time 2		(0 - 100)
					0 - 100
04 75	0ddd dddd	1	CTL5 Legato Rise Time 3		(0 - 100)
					0 - 100
04 76	0ddd dddd	1	CTL5 Legato Rise Time 4		(0 - 100)
					0 - 100
04 77	0ddd dddd	1	CTL5 Legato Rise Time 5		(0 - 100)
					0 - 100
04 78	0ddd dddd	1	CTL5 Legato Rise Time 6		(0 - 100)
					0 - 100
04 79	0ddd dddd	1	CTL5 Legato Fall Time 1		(0 - 100)
					0 - 100
04 7A	0ddd dddd	1	CTL5 Legato Fall Time 2		(0 - 100)
					0 - 100
04 7B	0ddd dddd	1	CTL5 Legato Fall Time 3		(0 - 100)
					0 - 100
04 7C	0ddd dddd	1	CTL5 Legato Fall Time 4		(0 - 100)
					0 - 100
04 7D	0ddd dddd	1	CTL5 Legato Fall Time 5		(0 - 100)
					0 - 100
04 7E	0ddd dddd	1	CTL5 Legato Fall Time 6		(0 - 100)
					0 - 100
04 7F	0000 00dd	1	CTL5 Legato Rise Curve 1		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
05 00	0000 00dd	1	CTL5 Legato Rise Curve 2		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
05 01	0000 00dd	1	CTL5 Legato Rise Curve 3		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
05 02	0000 00dd	1	CTL5 Legato Rise Curve 4		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
05 03	0000 00dd	1	CTL5 Legato Rise Curve 5		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
05 04	0000 00dd	1	CTL5 Legato Rise Curve 6		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
05 05	0000 00dd	1	CTL5 Legato Fall Curve 1		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
05 06	0000 00dd	1	CTL5 Legato Fall Curve 2		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
05 07	0000 00dd	1	CTL5 Legato Fall Curve 3		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL

05 08	0000 00dd	1	CTL5 Legato Fall Curve 4	(0 - 2)	LINEAR, SLOW FALL, FAST FALL
05 09	0000 00dd	1	CTL5 Legato Fall Curve 5	(0 - 2)	LINEAR, SLOW FALL, FAST FALL
05 0A	0000 00dd	1	CTL5 Legato Fall Curve 6	(0 - 2)	LINEAR, SLOW FALL, FAST FALL
05 0B	0000 aaaa	2	CTL5 Patch Select Number 1	(0 - 168)	U01 - U99, P01 - P70
	0000 bbbb				
05 0D	0000 aaaa	2	CTL5 Patch Select Number 2	(0 - 168)	U01 - U99, P01 - P70
	0000 bbbb				
05 0F	0000 aaaa	2	CTL5 Patch Select Number 3	(0 - 168)	U01 - U99, P01 - P70
	0000 bbbb				
05 11	0000 aaaa	2	CTL5 Patch Select Number 4	(0 - 168)	U01 - U99, P01 - P70
	0000 bbbb				
05 13	0000 aaaa	2	CTL5 Patch Select Number 5	(0 - 168)	U01 - U99, P01 - P70
	0000 bbbb				
05 15	0000 aaaa	2	CTL5 Patch Select Number 6	(0 - 168)	U01 - U99, P01 - P70
	0000 bbbb				
05 17	0000 000d	1	EXP SYSTEM PATCH 1	(0 - 1)	PATCH, SYSTEM
05 18	0000 000d	1	EXP SYSTEM PATCH 2	(0 - 1)	PATCH, SYSTEM
05 19	0000 000d	1	EXP SYSTEM PATCH 3	(0 - 1)	PATCH, SYSTEM
05 1A	0000 0000	3	Reserved	(0 - 0)	0 - 0
05 1D	0000 aaaa	3	EXP Assign Target 1	(0 - 4095)	0 - 4095
	0000 bbbb				
	0000 cccc				
05 20	0000 aaaa	3	EXP Assign Target 2	(0 - 4095)	0 - 4095
	0000 bbbb				
	0000 cccc				
05 23	0000 aaaa	3	EXP Assign Target 3	(0 - 4095)	0 - 4095
	0000 bbbb				
	0000 cccc				
05 26	0000 aaaa	4	EXP Assign Target Min 1	(0 - 65535) offset:32768	-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 2A	0000 aaaa	4	EXP Assign Target Min 2	(0 - 65535) offset:32768	-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 2E	0000 aaaa	4	EXP Assign Target Min 3	(0 - 65535) offset:32768	-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 32	0000 aaaa	4	EXP Assign Target Max 1	(0 - 65535) offset:32768	-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 36	0000 aaaa	4	EXP Assign Target Max 2	(0 - 65535) offset:32768	-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 3A	0000 aaaa	4	EXP Assign Target Max 3	(0 - 65535) offset:32768	-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 3E	0000 000d	1	EXP Source Mode 1	(0 - 1)	MOMENT, TOGGLE
05 3F	0000 000d	1	EXP Source Mode 2	(0 - 1)	MOMENT, TOGGLE
05 40	0000 000d	1	EXP Source Mode 3	(0 - 1)	MOMENT, TOGGLE
05 41	0ddd dddd	1	EXP Assign Source Range Min 1	(0 - 126)	0 - 126
05 42	0ddd dddd	1	EXP Assign Source Range Min 2	(0 - 126)	0 - 126
05 43	0ddd dddd	1	EXP Assign Source Range Min 3	(0 - 126)	0 - 126
05 44	0ddd dddd	1	EXP Assign Source Range Max 1	(1 - 127)	1 - 127
05 45	0ddd dddd	1	EXP Assign Source Range Max 2	(1 - 127)	

					1 - 127
05 46	0ddd dddd	1	EXP Assign Source Range Max 3		(1 - 127)
					1 - 127
05 47	0000 aaaa	2	EXP Patch Select Number 1		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
05 49	0000 aaaa	2	EXP Patch Select Number 2		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
05 4B	0000 aaaa	2	EXP Patch Select Number 3		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
05 4D	0000 0000	6	Reserved		(0 - 0)
					0 - 0
05 53	0000 000d	1	WAVE SYSTEM PATCH 1		(0 - 1)
					PATCH, SYSTEM
05 54	0000 000d	1	WAVE SYSTEM PATCH 2		(0 - 1)
					PATCH, SYSTEM
05 55	0000 000d	1	WAVE SYSTEM PATCH 3		(0 - 1)
					PATCH, SYSTEM
05 56	0000 0000	3	Reserved		(0 - 0)
					0 - 0
05 59	0000 aaaa	3	WAVE Assign Target 1		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
05 5C	0000 aaaa	3	WAVE Assign Target 2		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
05 5F	0000 aaaa	3	WAVE Assign Target 3		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
05 62	0000 aaaa	4	WAVE Assign Target Min 1		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 66	0000 aaaa	4	WAVE Assign Target Min 2		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 6A	0000 aaaa	4	WAVE Assign Target Min 3		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 6E	0000 aaaa	4	WAVE Assign Target Max 1		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 72	0000 aaaa	4	WAVE Assign Target Max 2		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 76	0000 aaaa	4	WAVE Assign Target Max 3		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 7A	0000 000d	1	WAVE Source Mode 1		(0 - 1)
					MOMENT, TOGGLE
05 7B	0000 000d	1	WAVE Source Mode 2		(0 - 1)
					MOMENT, TOGGLE
05 7C	0000 000d	1	WAVE Source Mode 3		(0 - 1)
					MOMENT, TOGGLE
05 7D	0ddd dddd	1	WAVE Assign Source Range Min 1		(0 - 126)
					0 - 126
05 7E	0ddd dddd	1	WAVE Assign Source Range Min 2		(0 - 126)
					0 - 126
05 7F	0ddd dddd	1	WAVE Assign Source Range Min 3		(0 - 126)
					0 - 126
06 00	0ddd dddd	1	WAVE Assign Source Range Max 1		(1 - 127)
					1 - 127
06 01	0ddd dddd	1	WAVE Assign Source Range Max 2		(1 - 127)
					1 - 127
06 02	0ddd dddd	1	WAVE Assign Source Range Max 3		(1 - 127)
					1 - 127
06 03	0ddd dddd	1	WAVE Pedal Rate 1		(0 - 113)
					0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3,
					4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH
06 04	0ddd dddd	1	WAVE Pedal Rate 2		(0 - 113)
					0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3,
					4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH
06 05	0ddd dddd	1	WAVE Pedal Rate 3		(0 - 113)

					0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3,
					4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH
06 06	0000 00dd	1	WAVE Pedal Wave Form 1		(0 - 2)
					SAW, TRI, SIN
06 07	0000 00dd	1	WAVE Pedal Wave Form 2		(0 - 2)
					SAW, TRI, SIN
06 08	0000 00dd	1	WAVE Pedal Wave Form 3		(0 - 2)
					SAW, TRI, SIN
06 09	0000 aaaa	2	WAVE Patch Select Number 1		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
06 0B	0000 aaaa	2	WAVE Patch Select Number 2		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
06 0D	0000 aaaa	2	WAVE Patch Select Number 3		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
06 0F	0000 000d	1	MIDI CC SYSTEM PATCH 1		(0 - 1)
					PATCH, SYSTEM
06 10	0000 000d	1	MIDI CC SYSTEM PATCH 2		(0 - 1)
					PATCH, SYSTEM
06 11	0000 000d	1	MIDI CC SYSTEM PATCH 3		(0 - 1)
					PATCH, SYSTEM
06 12	0000 000d	1	MIDI CC SYSTEM PATCH 4		(0 - 1)
					PATCH, SYSTEM
06 13	0000 000d	1	MIDI CC SYSTEM PATCH 5		(0 - 1)
					PATCH, SYSTEM
06 14	0000 000d	1	MIDI CC SYSTEM PATCH 6		(0 - 1)
					PATCH, SYSTEM
06 15	0000 0000	6	Reserved 1		(0 - 0)
					0 - 0
06 1B	0000 aaaa	3	MIDI CC Assign Target 1		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
06 1E	0000 aaaa	3	MIDI CC Assign Target 2		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
06 21	0000 aaaa	3	MIDI CC Assign Target 3		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
06 24	0000 aaaa	3	MIDI CC Assign Target 4		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
06 27	0000 aaaa	3	MIDI CC Assign Target 5		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
06 2A	0000 aaaa	3	MIDI CC Assign Target 6		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
06 2D	0000 aaaa	4	MIDI CC Assign Target Min 1		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 31	0000 aaaa	4	MIDI CC Assign Target Min 2		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 35	0000 aaaa	4	MIDI CC Assign Target Min 3		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 39	0000 aaaa	4	MIDI CC Assign Target Min 4		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 3D	0000 aaaa	4	MIDI CC Assign Target Min 5		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 41	0000 aaaa	4	MIDI CC Assign Target Min 6		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 45	0000 aaaa	4	MIDI CC Assign Target Max 1		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				

	0000 dddd				
06 49	0000 aaaa	4	MIDI CC Assign Target Max 2		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 4D	0000 aaaa	4	MIDI CC Assign Target Max 3		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 51	0000 aaaa	4	MIDI CC Assign Target Max 4		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 55	0000 aaaa	4	MIDI CC Assign Target Max 5		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 59	0000 aaaa	4	MIDI CC Assign Target Max 6		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 5D	00dd dddd	1	MIDI CC Source Number 1		(1 - 63)
					OFF, CC#1 - 31, CC#64 - 95
06 5E	00dd dddd	1	MIDI CC Source Number 2		(1 - 63)
					OFF, CC#1 - 31, CC#64 - 95
06 5F	00dd dddd	1	MIDI CC Source Number 3		(1 - 63)
					OFF, CC#1 - 31, CC#64 - 95
06 60	00dd dddd	1	MIDI CC Source Number 4		(1 - 63)
					OFF, CC#1 - 31, CC#64 - 95
06 61	00dd dddd	1	MIDI CC Source Number 5		(1 - 63)
					OFF, CC#1 - 31, CC#64 - 95
06 62	00dd dddd	1	MIDI CC Source Number 6		(1 - 63)
					OFF, CC#1 - 31, CC#64 - 95
06 63	0000 000d	1	MIDI CC Source Mode 1		(0 - 1)
					MOMENT, TOGGLE
06 64	0000 000d	1	MIDI CC Source Mode 2		(0 - 1)
					MOMENT, TOGGLE
06 65	0000 000d	1	MIDI CC Source Mode 3		(0 - 1)
					MOMENT, TOGGLE
06 66	0000 000d	1	MIDI CC Source Mode 4		(0 - 1)
					MOMENT, TOGGLE
06 67	0000 000d	1	MIDI CC Source Mode 5		(0 - 1)
					MOMENT, TOGGLE
06 68	0000 000d	1	MIDI CC Source Mode 6		(0 - 1)
					MOMENT, TOGGLE
06 69	0ddd dddd	1	MIDI CC Assign Source Range Min 1		(0 - 126)
					0 - 126
06 6A	0ddd dddd	1	MIDI CC Assign Source Range Min 2		(0 - 126)
					0 - 126
06 6B	0ddd dddd	1	MIDI CC Assign Source Range Min 3		(0 - 126)
					0 - 126
06 6C	0ddd dddd	1	MIDI CC Assign Source Range Min 4		(0 - 126)
					0 - 126
06 6D	0ddd dddd	1	MIDI CC Assign Source Range Min 5		(0 - 126)
					0 - 126
06 6E	0ddd dddd	1	MIDI CC Assign Source Range Min 6		(0 - 126)
					0 - 126
06 6F	0ddd dddd	1	MIDI CC Assign Source Range Max 1		(1 - 127)
					1 - 127
06 70	0ddd dddd	1	MIDI CC Assign Source Range Max 2		(1 - 127)
					1 - 127
06 71	0ddd dddd	1	MIDI CC Assign Source Range Max 3		(1 - 127)
					1 - 127
06 72	0ddd dddd	1	MIDI CC Assign Source Range Max 4		(1 - 127)
					1 - 127
06 73	0ddd dddd	1	MIDI CC Assign Source Range Max 5		(1 - 127)
					1 - 127
06 74	0ddd dddd	1	MIDI CC Assign Source Range Max 6		(1 - 127)
					1 - 127
06 75	0ddd dddd	1	MIDI CC Legato Rise Time 1		(0 - 100)
					0 - 100
06 76	0ddd dddd	1	MIDI CC Legato Rise Time 2		(0 - 100)
					0 - 100
06 77	0ddd dddd	1	MIDI CC Legato Rise Time 3		(0 - 100)
					0 - 100
06 78	0ddd dddd	1	MIDI CC Legato Rise Time 4		(0 - 100)
					0 - 100
06 79	0ddd dddd	1	MIDI CC Legato Rise Time 5		(0 - 100)
					0 - 100
06 7A	0ddd dddd	1	MIDI CC Legato Rise Time 6		(0 - 100)
					0 - 100
06 7B	0ddd dddd	1	MIDI CC Legato Fall Time 1		(0 - 100)
					0 - 100
06 7C	0ddd dddd	1	MIDI CC Legato Fall Time 2		(0 - 100)

				0 - 100
06 7D	0ddd dddd	1	MIDI CC Legato Fall Time 3	(0 - 100)
				0 - 100
06 7E	0ddd dddd	1	MIDI CC Legato Fall Time 4	(0 - 100)
				0 - 100
06 7F	0ddd dddd	1	MIDI CC Legato Fall Time 5	(0 - 100)
				0 - 100
07 00	0ddd dddd	1	MIDI CC Legato Fall Time 6	(0 - 100)
				0 - 100
07 01	0000 00dd	1	MIDI CC Legato Rise Curve 1	(0 - 2)
				LINEAR, SLOW RISE, FAST RISE
07 02	0000 00dd	1	MIDI CC Legato Rise Curve 2	(0 - 2)
				LINEAR, SLOW RISE, FAST RISE
07 03	0000 00dd	1	MIDI CC Legato Rise Curve 3	(0 - 2)
				LINEAR, SLOW RISE, FAST RISE
07 04	0000 00dd	1	MIDI CC Legato Rise Curve 4	(0 - 2)
				LINEAR, SLOW RISE, FAST RISE
07 05	0000 00dd	1	MIDI CC Legato Rise Curve 5	(0 - 2)
				LINEAR, SLOW RISE, FAST RISE
07 06	0000 00dd	1	MIDI CC Legato Rise Curve 6	(0 - 2)
				LINEAR, SLOW RISE, FAST RISE
07 07	0000 00dd	1	MIDI CC Legato Fall Curve 1	(0 - 2)
				LINEAR, SLOW FALL, FAST FALL
07 08	0000 00dd	1	MIDI CC Legato Fall Curve 2	(0 - 2)
				LINEAR, SLOW FALL, FAST FALL
07 09	0000 00dd	1	MIDI CC Legato Fall Curve 3	(0 - 2)
				LINEAR, SLOW FALL, FAST FALL
07 0A	0000 00dd	1	MIDI CC Legato Fall Curve 4	(0 - 2)
				LINEAR, SLOW FALL, FAST FALL
07 0B	0000 00dd	1	MIDI CC Legato Fall Curve 5	(0 - 2)
				LINEAR, SLOW FALL, FAST FALL
07 0C	0000 00dd	1	MIDI CC Legato Fall Curve 6	(0 - 2)
				LINEAR, SLOW FALL, FAST FALL
07 0D	0000 aaaa	2	MIDI CC Patch Select Number 1	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
07 0F	0000 aaaa	2	MIDI CC Patch Select Number 2	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
07 11	0000 aaaa	2	MIDI CC Patch Select Number 3	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
07 13	0000 aaaa	2	MIDI CC Patch Select Number 4	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
07 15	0000 aaaa	2	MIDI CC Patch Select Number 5	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
07 17	0000 aaaa	2	MIDI CC Patch Select Number 6	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
07 19	0000 000d	1	CTL1 Assign Switch 1	(0 - 1)
				OFF, ON
07 1A	0000 000d	1	CTL1 Assign Switch 2	(0 - 1)
				OFF, ON
07 1B	0000 000d	1	CTL1 Assign Switch 3	(0 - 1)
				OFF, ON
07 1C	0000 000d	1	CTL1 Assign Switch 4	(0 - 1)
				OFF, ON
07 1D	0000 000d	1	CTL1 Assign Switch 5	(0 - 1)
				OFF, ON
07 1E	0000 000d	1	CTL1 Assign Switch 6	(0 - 1)
				OFF, ON
07 1F	0000 000d	1	CTL2 Assign Switch 1	(0 - 1)
				OFF, ON
07 20	0000 000d	1	CTL2 Assign Switch 2	(0 - 1)
				OFF, ON
07 21	0000 000d	1	CTL2 Assign Switch 3	(0 - 1)
				OFF, ON
07 22	0000 000d	1	CTL2 Assign Switch 4	(0 - 1)
				OFF, ON
07 23	0000 000d	1	CTL2 Assign Switch 5	(0 - 1)
				OFF, ON
07 24	0000 000d	1	CTL2 Assign Switch 6	(0 - 1)
				OFF, ON
07 25	0000 000d	1	CTL3 Assign Switch 1	(0 - 1)
				OFF, ON
07 26	0000 000d	1	CTL3 Assign Switch 2	(0 - 1)
				OFF, ON
07 27	0000 000d	1	CTL3 Assign Switch 3	(0 - 1)
				OFF, ON
07 28	0000 000d	1	CTL3 Assign Switch 4	(0 - 1)
				OFF, ON
07 29	0000 000d	1	CTL3 Assign Switch 5	(0 - 1)
				OFF, ON
07 2A	0000 000d	1	CTL3 Assign Switch 6	(0 - 1)
				OFF, ON
07 2B	0000 000d	1	CTL4 Assign Switch 1	(0 - 1)
				OFF, ON

07 2C	0000 000d	1	CTL4 Assign Switch 2	(0 - 1) OFF, ON
07 2D	0000 000d	1	CTL4 Assign Switch 3	(0 - 1) OFF, ON
07 2E	0000 000d	1	CTL4 Assign Switch 4	(0 - 1) OFF, ON
07 2F	0000 000d	1	CTL4 Assign Switch 5	(0 - 1) OFF, ON
07 30	0000 000d	1	CTL4 Assign Switch 6	(0 - 1) OFF, ON
07 31	0000 000d	1	CTL5 Assign Switch 1	(0 - 1) OFF, ON
07 32	0000 000d	1	CTL5 Assign Switch 2	(0 - 1) OFF, ON
07 33	0000 000d	1	CTL5 Assign Switch 3	(0 - 1) OFF, ON
07 34	0000 000d	1	CTL5 Assign Switch 4	(0 - 1) OFF, ON
07 35	0000 000d	1	CTL5 Assign Switch 5	(0 - 1) OFF, ON
07 36	0000 000d	1	CTL5 Assign Switch 6	(0 - 1) OFF, ON
07 37	0000 000d	1	EXP Assign Switch 1	(0 - 1) OFF, ON
07 38	0000 000d	1	EXP Assign Switch 2	(0 - 1) OFF, ON
07 39	0000 000d	1	EXP Assign Switch 3	(0 - 1) OFF, ON
07 3A	0000 000d	1	WAVE Assign Switch 1	(0 - 1) OFF, ON
07 3B	0000 000d	1	WAVE Assign Switch 2	(0 - 1) OFF, ON
07 3C	0000 000d	1	WAVE Assign Switch 3	(0 - 1) OFF, ON
07 3D	0000 000d	1	MIDI CC Assign Switch 1	(0 - 1) OFF, ON
07 3E	0000 000d	1	MIDI CC Assign Switch 2	(0 - 1) OFF, ON
07 3F	0000 000d	1	MIDI CC Assign Switch 3	(0 - 1) OFF, ON
07 40	0000 000d	1	MIDI CC Assign Switch 4	(0 - 1) OFF, ON
07 41	0000 000d	1	MIDI CC Assign Switch 5	(0 - 1) OFF, ON
07 42	0000 000d	1	MIDI CC Assign Switch 6	(0 - 1) OFF, ON
07 43	0000 0000	42	Reserved	(0 - 0) 0 - 0

* System PCMAP Parameters Offset Address

Offset Address	Description	ByteSize		
00 00	0000 aaaa	2	MIDI Program Map BANK0 PC#1	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
00 02	0000 aaaa	2	MIDI Program Map BANK0 PC#2	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
00 04	0000 aaaa	2	MIDI Program Map BANK0 PC#3	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
00 06	0000 aaaa	2	MIDI Program Map BANK0 PC#4	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
00 08	0000 aaaa	2	MIDI Program Map BANK0 PC#5	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
00 0A	0000 aaaa	2	MIDI Program Map BANK0 PC#6	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
00 0C	0000 aaaa	2	MIDI Program Map BANK0 PC#7	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
00 0E	0000 aaaa	2	MIDI Program Map BANK0 PC#8	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
00 10	0000 aaaa	2	MIDI Program Map BANK0 PC#9	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
00 12	0000 aaaa	2	MIDI Program Map BANK0 PC#10	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
00 14	0000 aaaa	2	MIDI Program Map BANK0 PC#11	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
00 16	0000 aaaa	2	MIDI Program Map BANK0 PC#12	(0 - 168)

				U01 - U99, P01 - P70
	0000 bbbb			
00 18	0000 aaaa	2	MIDI Program Map BANK0 PC#13	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 1A	0000 aaaa	2	MIDI Program Map BANK0 PC#14	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 1C	0000 aaaa	2	MIDI Program Map BANK0 PC#15	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 1E	0000 aaaa	2	MIDI Program Map BANK0 PC#16	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 20	0000 aaaa	2	MIDI Program Map BANK0 PC#17	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 22	0000 aaaa	2	MIDI Program Map BANK0 PC#18	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 24	0000 aaaa	2	MIDI Program Map BANK0 PC#19	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 26	0000 aaaa	2	MIDI Program Map BANK0 PC#20	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 28	0000 aaaa	2	MIDI Program Map BANK0 PC#21	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 2A	0000 aaaa	2	MIDI Program Map BANK0 PC#22	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 2C	0000 aaaa	2	MIDI Program Map BANK0 PC#23	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 2E	0000 aaaa	2	MIDI Program Map BANK0 PC#24	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 30	0000 aaaa	2	MIDI Program Map BANK0 PC#25	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 32	0000 aaaa	2	MIDI Program Map BANK0 PC#26	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 34	0000 aaaa	2	MIDI Program Map BANK0 PC#27	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 36	0000 aaaa	2	MIDI Program Map BANK0 PC#28	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 38	0000 aaaa	2	MIDI Program Map BANK0 PC#29	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 3A	0000 aaaa	2	MIDI Program Map BANK0 PC#30	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 3C	0000 aaaa	2	MIDI Program Map BANK0 PC#31	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 3E	0000 aaaa	2	MIDI Program Map BANK0 PC#32	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 40	0000 aaaa	2	MIDI Program Map BANK0 PC#33	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 42	0000 aaaa	2	MIDI Program Map BANK0 PC#34	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 44	0000 aaaa	2	MIDI Program Map BANK0 PC#35	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 46	0000 aaaa	2	MIDI Program Map BANK0 PC#36	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 48	0000 aaaa	2	MIDI Program Map BANK0 PC#37	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 4A	0000 aaaa	2	MIDI Program Map BANK0 PC#38	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 4C	0000 aaaa	2	MIDI Program Map BANK0 PC#39	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 4E	0000 aaaa	2	MIDI Program Map BANK0 PC#40	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 50	0000 aaaa	2	MIDI Program Map BANK0 PC#41	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			

00 52	0000 aaaa	2	MIDI Program Map BANK0 PC#42	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 54	0000 aaaa	2	MIDI Program Map BANK0 PC#43	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 56	0000 aaaa	2	MIDI Program Map BANK0 PC#44	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 58	0000 aaaa	2	MIDI Program Map BANK0 PC#45	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 5A	0000 aaaa	2	MIDI Program Map BANK0 PC#46	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 5C	0000 aaaa	2	MIDI Program Map BANK0 PC#47	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 5E	0000 aaaa	2	MIDI Program Map BANK0 PC#48	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 60	0000 aaaa	2	MIDI Program Map BANK0 PC#49	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 62	0000 aaaa	2	MIDI Program Map BANK0 PC#50	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 64	0000 aaaa	2	MIDI Program Map BANK0 PC#51	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 66	0000 aaaa	2	MIDI Program Map BANK0 PC#52	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 68	0000 aaaa	2	MIDI Program Map BANK0 PC#53	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 6A	0000 aaaa	2	MIDI Program Map BANK0 PC#54	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 6C	0000 aaaa	2	MIDI Program Map BANK0 PC#55	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 6E	0000 aaaa	2	MIDI Program Map BANK0 PC#56	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 70	0000 aaaa	2	MIDI Program Map BANK0 PC#57	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 72	0000 aaaa	2	MIDI Program Map BANK0 PC#58	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 74	0000 aaaa	2	MIDI Program Map BANK0 PC#59	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 76	0000 aaaa	2	MIDI Program Map BANK0 PC#60	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 78	0000 aaaa	2	MIDI Program Map BANK0 PC#61	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 7A	0000 aaaa	2	MIDI Program Map BANK0 PC#62	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 7C	0000 aaaa	2	MIDI Program Map BANK0 PC#63	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 7E	0000 aaaa	2	MIDI Program Map BANK0 PC#64	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 00	0000 aaaa	2	MIDI Program Map BANK0 PC#65	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 02	0000 aaaa	2	MIDI Program Map BANK0 PC#66	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 04	0000 aaaa	2	MIDI Program Map BANK0 PC#67	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 06	0000 aaaa	2	MIDI Program Map BANK0 PC#68	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 08	0000 aaaa	2	MIDI Program Map BANK0 PC#69	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 0A	0000 aaaa	2	MIDI Program Map BANK0 PC#70	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 0C	0000 aaaa	2	MIDI Program Map BANK0 PC#71	(0 - 168)
				U01 - U99, P01 - P70

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01 0E	0000 aaaa	2	MIDI Program Map BANK0 PC#72	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 10	0000 aaaa	2	MIDI Program Map BANK0 PC#73	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 12	0000 aaaa	2	MIDI Program Map BANK0 PC#74	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 14	0000 aaaa	2	MIDI Program Map BANK0 PC#75	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 16	0000 aaaa	2	MIDI Program Map BANK0 PC#76	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 18	0000 aaaa	2	MIDI Program Map BANK0 PC#77	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 1A	0000 aaaa	2	MIDI Program Map BANK0 PC#78	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 1C	0000 aaaa	2	MIDI Program Map BANK0 PC#79	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 1E	0000 aaaa	2	MIDI Program Map BANK0 PC#80	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 20	0000 aaaa	2	MIDI Program Map BANK0 PC#81	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 22	0000 aaaa	2	MIDI Program Map BANK0 PC#82	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 24	0000 aaaa	2	MIDI Program Map BANK0 PC#83	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 26	0000 aaaa	2	MIDI Program Map BANK0 PC#84	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 28	0000 aaaa	2	MIDI Program Map BANK0 PC#85	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 2A	0000 aaaa	2	MIDI Program Map BANK0 PC#86	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 2C	0000 aaaa	2	MIDI Program Map BANK0 PC#87	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 2E	0000 aaaa	2	MIDI Program Map BANK0 PC#88	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 30	0000 aaaa	2	MIDI Program Map BANK0 PC#89	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 32	0000 aaaa	2	MIDI Program Map BANK0 PC#90	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 34	0000 aaaa	2	MIDI Program Map BANK0 PC#91	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 36	0000 aaaa	2	MIDI Program Map BANK0 PC#92	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 38	0000 aaaa	2	MIDI Program Map BANK0 PC#93	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 3A	0000 aaaa	2	MIDI Program Map BANK0 PC#94	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 3C	0000 aaaa	2	MIDI Program Map BANK0 PC#95	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 3E	0000 aaaa	2	MIDI Program Map BANK0 PC#96	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 40	0000 aaaa	2	MIDI Program Map BANK0 PC#97	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 42	0000 aaaa	2	MIDI Program Map BANK0 PC#98	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 44	0000 aaaa	2	MIDI Program Map BANK0 PC#99	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 46	0000 aaaa	2	MIDI Program Map BANK0 PC#100	(0 - 168) U01 - U99, P01 - P70
	0000 bbbb			
01 48	0000 aaaa	2	MIDI Program Map BANK0 PC#101	(0 - 168)

				U01 - U99, P01 - P70
	0000 bbbb			
01 4A	0000 aaaa	2	MIDI Program Map BANK0 PC#102	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 4C	0000 aaaa	2	MIDI Program Map BANK0 PC#103	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 4E	0000 aaaa	2	MIDI Program Map BANK0 PC#104	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 50	0000 aaaa	2	MIDI Program Map BANK0 PC#105	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 52	0000 aaaa	2	MIDI Program Map BANK0 PC#106	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 54	0000 aaaa	2	MIDI Program Map BANK0 PC#107	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 56	0000 aaaa	2	MIDI Program Map BANK0 PC#108	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 58	0000 aaaa	2	MIDI Program Map BANK0 PC#109	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 5A	0000 aaaa	2	MIDI Program Map BANK0 PC#110	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 5C	0000 aaaa	2	MIDI Program Map BANK0 PC#111	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 5E	0000 aaaa	2	MIDI Program Map BANK0 PC#112	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 60	0000 aaaa	2	MIDI Program Map BANK0 PC#113	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 62	0000 aaaa	2	MIDI Program Map BANK0 PC#114	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 64	0000 aaaa	2	MIDI Program Map BANK0 PC#115	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 66	0000 aaaa	2	MIDI Program Map BANK0 PC#116	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 68	0000 aaaa	2	MIDI Program Map BANK0 PC#117	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 6A	0000 aaaa	2	MIDI Program Map BANK0 PC#118	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 6C	0000 aaaa	2	MIDI Program Map BANK0 PC#119	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 6E	0000 aaaa	2	MIDI Program Map BANK0 PC#120	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 70	0000 aaaa	2	MIDI Program Map BANK0 PC#121	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 72	0000 aaaa	2	MIDI Program Map BANK0 PC#122	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 74	0000 aaaa	2	MIDI Program Map BANK0 PC#123	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 76	0000 aaaa	2	MIDI Program Map BANK0 PC#124	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 78	0000 aaaa	2	MIDI Program Map BANK0 PC#125	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 7A	0000 aaaa	2	MIDI Program Map BANK0 PC#126	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 7C	0000 aaaa	2	MIDI Program Map BANK0 PC#127	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 7E	0000 aaaa	2	MIDI Program Map BANK0 PC#128	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 00	0000 aaaa	2	MIDI Program Map BANK1 PC#001	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 02	0000 aaaa	2	MIDI Program Map BANK1 PC#002	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			

02 04	0000 aaaa	2	MIDI Program Map BANK1 PC#003	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 06	0000 aaaa	2	MIDI Program Map BANK1 PC#004	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 08	0000 aaaa	2	MIDI Program Map BANK1 PC#005	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 0A	0000 aaaa	2	MIDI Program Map BANK1 PC#006	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 0C	0000 aaaa	2	MIDI Program Map BANK1 PC#007	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 0E	0000 aaaa	2	MIDI Program Map BANK1 PC#008	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 10	0000 aaaa	2	MIDI Program Map BANK1 PC#009	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 12	0000 aaaa	2	MIDI Program Map BANK1 PC#010	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 14	0000 aaaa	2	MIDI Program Map BANK1 PC#011	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 16	0000 aaaa	2	MIDI Program Map BANK1 PC#012	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 18	0000 aaaa	2	MIDI Program Map BANK1 PC#013	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 1A	0000 aaaa	2	MIDI Program Map BANK1 PC#014	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 1C	0000 aaaa	2	MIDI Program Map BANK1 PC#015	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 1E	0000 aaaa	2	MIDI Program Map BANK1 PC#016	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 20	0000 aaaa	2	MIDI Program Map BANK1 PC#017	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 22	0000 aaaa	2	MIDI Program Map BANK1 PC#018	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 24	0000 aaaa	2	MIDI Program Map BANK1 PC#019	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 26	0000 aaaa	2	MIDI Program Map BANK1 PC#020	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 28	0000 aaaa	2	MIDI Program Map BANK1 PC#021	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 2A	0000 aaaa	2	MIDI Program Map BANK1 PC#022	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 2C	0000 aaaa	2	MIDI Program Map BANK1 PC#023	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 2E	0000 aaaa	2	MIDI Program Map BANK1 PC#024	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 30	0000 aaaa	2	MIDI Program Map BANK1 PC#025	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 32	0000 aaaa	2	MIDI Program Map BANK1 PC#026	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 34	0000 aaaa	2	MIDI Program Map BANK1 PC#027	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 36	0000 aaaa	2	MIDI Program Map BANK1 PC#028	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 38	0000 aaaa	2	MIDI Program Map BANK1 PC#029	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 3A	0000 aaaa	2	MIDI Program Map BANK1 PC#030	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 3C	0000 aaaa	2	MIDI Program Map BANK1 PC#031	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 3E	0000 aaaa	2	MIDI Program Map BANK1 PC#032	(0 - 168)
				U01 - U99, P01 - P70

	0000 bbbb				
02 40	0000 aaaa	2	MIDI Program Map BANK1 PC#033	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 42	0000 aaaa	2	MIDI Program Map BANK1 PC#034	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 44	0000 aaaa	2	MIDI Program Map BANK1 PC#035	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 46	0000 aaaa	2	MIDI Program Map BANK1 PC#036	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 48	0000 aaaa	2	MIDI Program Map BANK1 PC#037	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 4A	0000 aaaa	2	MIDI Program Map BANK1 PC#038	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 4C	0000 aaaa	2	MIDI Program Map BANK1 PC#039	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 4E	0000 aaaa	2	MIDI Program Map BANK1 PC#040	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 50	0000 aaaa	2	MIDI Program Map BANK1 PC#041	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 52	0000 aaaa	2	MIDI Program Map BANK1 PC#042	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 54	0000 aaaa	2	MIDI Program Map BANK1 PC#043	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 56	0000 aaaa	2	MIDI Program Map BANK1 PC#044	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 58	0000 aaaa	2	MIDI Program Map BANK1 PC#045	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 5A	0000 aaaa	2	MIDI Program Map BANK1 PC#046	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 5C	0000 aaaa	2	MIDI Program Map BANK1 PC#047	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 5E	0000 aaaa	2	MIDI Program Map BANK1 PC#048	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 60	0000 aaaa	2	MIDI Program Map BANK1 PC#049	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 62	0000 aaaa	2	MIDI Program Map BANK1 PC#050	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 64	0000 aaaa	2	MIDI Program Map BANK1 PC#051	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 66	0000 aaaa	2	MIDI Program Map BANK1 PC#052	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 68	0000 aaaa	2	MIDI Program Map BANK1 PC#053	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 6A	0000 aaaa	2	MIDI Program Map BANK1 PC#054	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 6C	0000 aaaa	2	MIDI Program Map BANK1 PC#055	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 6E	0000 aaaa	2	MIDI Program Map BANK1 PC#056	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 70	0000 aaaa	2	MIDI Program Map BANK1 PC#057	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 72	0000 aaaa	2	MIDI Program Map BANK1 PC#058	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 74	0000 aaaa	2	MIDI Program Map BANK1 PC#059	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 76	0000 aaaa	2	MIDI Program Map BANK1 PC#060	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 78	0000 aaaa	2	MIDI Program Map BANK1 PC#061	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
02 7A	0000 aaaa	2	MIDI Program Map BANK1 PC#062	(0 - 168)	

				U01 - U99, P01 - P70
	0000 bbbb			
02 7C	0000 aaaa	2	MIDI Program Map BANK1 PC#063	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
02 7E	0000 aaaa	2	MIDI Program Map BANK1 PC#064	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 00	0000 aaaa	2	MIDI Program Map BANK1 PC#065	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 02	0000 aaaa	2	MIDI Program Map BANK1 PC#066	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 04	0000 aaaa	2	MIDI Program Map BANK1 PC#067	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 06	0000 aaaa	2	MIDI Program Map BANK1 PC#068	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 08	0000 aaaa	2	MIDI Program Map BANK1 PC#069	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 0A	0000 aaaa	2	MIDI Program Map BANK1 PC#070	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 0C	0000 aaaa	2	MIDI Program Map BANK1 PC#071	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 0E	0000 aaaa	2	MIDI Program Map BANK1 PC#072	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 10	0000 aaaa	2	MIDI Program Map BANK1 PC#073	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 12	0000 aaaa	2	MIDI Program Map BANK1 PC#074	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 14	0000 aaaa	2	MIDI Program Map BANK1 PC#075	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 16	0000 aaaa	2	MIDI Program Map BANK1 PC#076	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 18	0000 aaaa	2	MIDI Program Map BANK1 PC#077	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 1A	0000 aaaa	2	MIDI Program Map BANK1 PC#078	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 1C	0000 aaaa	2	MIDI Program Map BANK1 PC#079	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 1E	0000 aaaa	2	MIDI Program Map BANK1 PC#080	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 20	0000 aaaa	2	MIDI Program Map BANK1 PC#081	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 22	0000 aaaa	2	MIDI Program Map BANK1 PC#082	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 24	0000 aaaa	2	MIDI Program Map BANK1 PC#083	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 26	0000 aaaa	2	MIDI Program Map BANK1 PC#084	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 28	0000 aaaa	2	MIDI Program Map BANK1 PC#085	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 2A	0000 aaaa	2	MIDI Program Map BANK1 PC#086	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 2C	0000 aaaa	2	MIDI Program Map BANK1 PC#087	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 2E	0000 aaaa	2	MIDI Program Map BANK1 PC#088	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 30	0000 aaaa	2	MIDI Program Map BANK1 PC#089	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 32	0000 aaaa	2	MIDI Program Map BANK1 PC#090	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 34	0000 aaaa	2	MIDI Program Map BANK1 PC#091	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			

03 36	0000 aaaa	2	MIDI Program Map BANK1 PC#092	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 38	0000 aaaa	2	MIDI Program Map BANK1 PC#093	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 3A	0000 aaaa	2	MIDI Program Map BANK1 PC#094	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 3C	0000 aaaa	2	MIDI Program Map BANK1 PC#095	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 3E	0000 aaaa	2	MIDI Program Map BANK1 PC#096	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 40	0000 aaaa	2	MIDI Program Map BANK1 PC#097	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 42	0000 aaaa	2	MIDI Program Map BANK1 PC#098	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 44	0000 aaaa	2	MIDI Program Map BANK1 PC#099	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 46	0000 aaaa	2	MIDI Program Map BANK1 PC#100	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 48	0000 aaaa	2	MIDI Program Map BANK1 PC#101	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 4A	0000 aaaa	2	MIDI Program Map BANK1 PC#102	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 4C	0000 aaaa	2	MIDI Program Map BANK1 PC#103	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 4E	0000 aaaa	2	MIDI Program Map BANK1 PC#104	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 50	0000 aaaa	2	MIDI Program Map BANK1 PC#105	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 52	0000 aaaa	2	MIDI Program Map BANK1 PC#106	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 54	0000 aaaa	2	MIDI Program Map BANK1 PC#107	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 56	0000 aaaa	2	MIDI Program Map BANK1 PC#108	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 58	0000 aaaa	2	MIDI Program Map BANK1 PC#109	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 5A	0000 aaaa	2	MIDI Program Map BANK1 PC#110	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 5C	0000 aaaa	2	MIDI Program Map BANK1 PC#111	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 5E	0000 aaaa	2	MIDI Program Map BANK1 PC#112	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 60	0000 aaaa	2	MIDI Program Map BANK1 PC#113	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 62	0000 aaaa	2	MIDI Program Map BANK1 PC#114	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 64	0000 aaaa	2	MIDI Program Map BANK1 PC#115	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 66	0000 aaaa	2	MIDI Program Map BANK1 PC#116	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 68	0000 aaaa	2	MIDI Program Map BANK1 PC#117	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 6A	0000 aaaa	2	MIDI Program Map BANK1 PC#118	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 6C	0000 aaaa	2	MIDI Program Map BANK1 PC#119	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 6E	0000 aaaa	2	MIDI Program Map BANK1 PC#120	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
03 70	0000 aaaa	2	MIDI Program Map BANK1 PC#121	(0 - 168)
				U01 - U99, P01 - P70

	03 72	0000 bbbb 0000 aaaa	2	MIDI Program Map BANK1 PC#122	(0 - 168) U01 - U99, P01 - P70
	03 74	0000 bbbb 0000 aaaa	2	MIDI Program Map BANK1 PC#123	(0 - 168) U01 - U99, P01 - P70
	03 76	0000 bbbb 0000 aaaa	2	MIDI Program Map BANK1 PC#124	(0 - 168) U01 - U99, P01 - P70
	03 78	0000 bbbb 0000 aaaa	2	MIDI Program Map BANK1 PC#125	(0 - 168) U01 - U99, P01 - P70
	03 7A	0000 bbbb 0000 aaaa	2	MIDI Program Map BANK1 PC#126	(0 - 168) U01 - U99, P01 - P70
	03 7C	0000 bbbb 0000 aaaa	2	MIDI Program Map BANK1 PC#127	(0 - 168) U01 - U99, P01 - P70
	03 7E	0000 bbbb 0000 aaaa	2	MIDI Program Map BANK1 PC#128	(0 - 168) U01 - U99, P01 - P70
		0000 bbbb			

* Patch Common Parameters Offset Address

Offset Address	Description	ByteSize		
00 00	0ddd dddd	1	Patch Name1	(32 - 126) 32 - 126 [ASCII]
00 01	0ddd dddd	1	Patch Name2	(32 - 126) 32 - 126 [ASCII]
00 02	0ddd dddd	1	Patch Name3	(32 - 126) 32 - 126 [ASCII]
00 03	0ddd dddd	1	Patch Name4	(32 - 126) 32 - 126 [ASCII]
00 04	0ddd dddd	1	Patch Name5	(32 - 126) 32 - 126 [ASCII]
00 05	0ddd dddd	1	Patch Name6	(32 - 126) 32 - 126 [ASCII]
00 06	0ddd dddd	1	Patch Name7	(32 - 126) 32 - 126 [ASCII]
00 07	0ddd dddd	1	Patch Name8	(32 - 126) 32 - 126 [ASCII]
00 08	0ddd dddd	1	Patch Name9	(32 - 126) 32 - 126 [ASCII]
00 09	0ddd dddd	1	Patch Name10	(32 - 126) 32 - 126 [ASCII]
00 0A	0ddd dddd	1	Patch Name11	(32 - 126) 32 - 126 [ASCII]
00 0B	0ddd dddd	1	Patch Name12	(32 - 126) 32 - 126 [ASCII]
00 0C	0ddd dddd	1	Patch Name13	(32 - 126) 32 - 126 [ASCII]
00 0D	0ddd dddd	1	Patch Name14	(32 - 126) 32 - 126 [ASCII]
00 0E	0ddd dddd	1	Patch Name15	(32 - 126) 32 - 126 [ASCII]
00 0F	0ddd dddd	1	Patch Name16	(32 - 126) 32 - 126 [ASCII]
00 10	0ddd dddd	1	Level	(0 - 100) 0 - 200
00 11	0000 aaaa 0000 bbbb	2	Tempo	(40 - 250) 40 - 250
00 13	0ddd dddd	1	Return Level	(0 - 100) 0 - 200
00 14	0ddd dddd	1	Direct Level	(0 - 100) 0 - 200
00 15	0000 000d	1	Return Signal Phase	(0 - 1) NORMAL, INVERSE
00 16	0ddd dddd	1	Sub Output Level	(0 - 100) 0 - 200
00 17	0000 0ddd	1	OSC Assign	(0 - 7) A123/B, A12/3B, A23/1B, A13/2B, A1/23B, A2/13B, A3/12B, A/123B
00 18	0ddd dddd	1	OSC Mixer Balance	(0 - 100) A100:0B - A100:100B - A0:100B
00 19	0ddd dddd	1	OSC Mixer CH A Level	(0 - 100) 0 - 100
00 1A	0ddd dddd	1	OSC Mixer CH A Pan	(0 - 100) L50 - CENTER - R50
00 1B	0ddd dddd	1	OSC Mixer CH B Level	(0 - 100) 0 - 100
00 1C	0ddd dddd	1	OSC Mixer CH B Pan	(0 - 100) L50 - CENTER - R50
00 1D	0ddd dddd	1	OUTPUT Mixer Balance	(0 - 100) S100:0R - S100:100R - S0:100R

Offset Address	Description	ByteSize		
00 1E	0ddd dddd	1	OUTPUT Mixer Synth Level	(0 - 100) 0 - 100
00 1F	0ddd dddd	1	OUTPUT Mixer Synth Pan	(0 - 100) L50 - CENTER - R50
00 20	0ddd dddd	1	OUTPUT Mixer Return Level	(0 - 100) 0 - 100
00 21	0ddd dddd	1	OUTPUT Mixer ReturnPan	(0 - 100) L50 - CENTER - R50
00 22	0000 000d	1	Input Sens Patch or SYSTEM	(0 - 1) PATCH, SYSTEM
00 23	0ddd dddd	1	Patch Input Sens	(0 - 100) -50 - +50
00 24	0ddd dddd	1	Patch Low Balance	(0 - 100) -50 - +50
00 25	0ddd dddd	1	Patch High Balance	(0 - 100) -50 - +50
00 26	0000 000d	1	Patch Input Bass Mode	(0 - 1) OFF, ON
00 27	0000 000d	1	Patch Input Comp Sw	(0 - 1) OFF, ON
00 28	0ddd dddd	1	Patch Input Comp Attack	(0 - 100) 0 - 100
00 29	0ddd dddd	1	Patch Input Comp Sustain	(0 - 100) 0 - 100
00 2A	0ddd dddd	1	Patch Input Comp Level	(0 - 100) 0 - 100
00 2B	0000 0000	8	Reserved	(0 - 0) 0 - 0

* Patch CTL Parameters Offset Address

Offset Address	Description	ByteSize		
00 00	0000 000d	1	CTL1 Assign Switch 1	(0 - 1) OFF, ON
00 01	0000 000d	1	CTL1 Assign Switch 2	(0 - 1) OFF, ON
00 02	0000 000d	1	CTL1 Assign Switch 3	(0 - 1) OFF, ON
00 03	0000 000d	1	CTL1 Assign Switch 4	(0 - 1) OFF, ON
00 04	0000 000d	1	CTL1 Assign Switch 5	(0 - 1) OFF, ON
00 05	0000 000d	1	CTL1 Assign Switch 6	(0 - 1) OFF, ON
00 06	0000 000d	1	CTL1 Assign Preset/Manual 1	(0 - 1) PRESET, MANUAL
00 07	0000 000d	1	CTL1 Assign Preset/Manual 2	(0 - 1) PRESET, MANUAL
00 08	0000 000d	1	CTL1 Assign Preset/Manual 3	(0 - 1) PRESET, MANUAL
00 09	0000 000d	1	CTL1 Assign Preset/Manual 4	(0 - 1) PRESET, MANUAL
00 0A	0000 000d	1	CTL1 Assign Preset/Manual 5	(0 - 1) PRESET, MANUAL
00 0B	0000 000d	1	CTL1 Assign Preset/Manual 6	(0 - 1) PRESET, MANUAL
00 0C	0000 aaaa 0000 bbbb 0000 cccc	3	CTL1 Assign Target 1	(0 - 4095) 0 - 4095
00 0F	0000 aaaa 0000 bbbb 0000 cccc	3	CTL1 Assign Target 2	(0 - 4095) 0 - 4095
00 12	0000 aaaa 0000 bbbb 0000 cccc	3	CTL1 Assign Target 3	(0 - 4095) 0 - 4095
00 15	0000 aaaa 0000 bbbb 0000 cccc	3	CTL1 Assign Target 4	(0 - 4095) 0 - 4095
00 18	0000 aaaa 0000 bbbb 0000 cccc	3	CTL1 Assign Target 5	(0 - 4095) 0 - 4095
00 1B	0000 aaaa 0000 bbbb 0000 cccc	3	CTL1 Assign Target 6	(0 - 4095) 0 - 4095
00 1E	0000 aaaa 0000 bbbb 0000 cccc 0000 dddd	4	CTL1 Assign Target Min 1	(0 - 65535) offset:32768 -32768 - 32767
00 22	0000 aaaa	4	CTL1 Assign Target Min 2	(0 - 65535) offset:32768

				-32768 - 32767
	0000 bbbb			
	0000 cccc			
	0000 dddd			
00 26	0000 aaaa	4	CTL1 Assign Target Min 3	(0 - 65535) offset:32768
				-32768 - 32767
	0000 bbbb			
	0000 cccc			
	0000 dddd			
00 2A	0000 aaaa	4	CTL1 Assign Target Min 4	(0 - 65535) offset:32768
				-32768 - 32767
	0000 bbbb			
	0000 cccc			
	0000 dddd			
00 2E	0000 aaaa	4	CTL1 Assign Target Min 5	(0 - 65535) offset:32768
				-32768 - 32767
	0000 bbbb			
	0000 cccc			
	0000 dddd			
00 32	0000 aaaa	4	CTL1 Assign Target Min 6	(0 - 65535) offset:32768
				-32768 - 32767
	0000 bbbb			
	0000 cccc			
	0000 dddd			
00 36	0000 aaaa	4	CTL1 Assign Target Max 1	(0 - 65535) offset:32768
				-32768 - 32767
	0000 bbbb			
	0000 cccc			
	0000 dddd			
00 3A	0000 aaaa	4	CTL1 Assign Target Max 2	(0 - 65535) offset:32768
				-32768 - 32767
	0000 bbbb			
	0000 cccc			
	0000 dddd			
00 3E	0000 aaaa	4	CTL1 Assign Target Max 3	(0 - 65535) offset:32768
				-32768 - 32767
	0000 bbbb			
	0000 cccc			
	0000 dddd			
00 42	0000 aaaa	4	CTL1 Assign Target Max 4	(0 - 65535) offset:32768
				-32768 - 32767
	0000 bbbb			
	0000 cccc			
	0000 dddd			
00 46	0000 aaaa	4	CTL1 Assign Target Max 5	(0 - 65535) offset:32768
				-32768 - 32767
	0000 bbbb			
	0000 cccc			
	0000 dddd			
00 4A	0000 aaaa	4	CTL1 Assign Target Max 6	(0 - 65535) offset:32768
				-32768 - 32767
	0000 bbbb			
	0000 cccc			
	0000 dddd			
00 4E	0000 000d	1	CTL1 Source Mode 1	(0 - 1)
				MOMENT, TOGGLE
00 4F	0000 000d	1	CTL1 Source Mode 2	(0 - 1)
				MOMENT, TOGGLE
00 50	0000 000d	1	CTL1 Source Mode 3	(0 - 1)
				MOMENT, TOGGLE
00 51	0000 000d	1	CTL1 Source Mode 4	(0 - 1)
				MOMENT, TOGGLE
00 52	0000 000d	1	CTL1 Source Mode 5	(0 - 1)
				MOMENT, TOGGLE
00 53	0000 000d	1	CTL1 Source Mode 6	(0 - 1)
				MOMENT, TOGGLE
00 54	0ddd dddd	1	CTL1 Assign Source Range Min 1	(0 - 126)
				0 - 126
00 55	0ddd dddd	1	CTL1 Assign Source Range Min 2	(0 - 126)
				0 - 126
00 56	0ddd dddd	1	CTL1 Assign Source Range Min 3	(0 - 126)
				0 - 126
00 57	0ddd dddd	1	CTL1 Assign Source Range Min 4	(0 - 126)
				0 - 126
00 58	0ddd dddd	1	CTL1 Assign Source Range Min 5	(0 - 126)
				0 - 126
00 59	0ddd dddd	1	CTL1 Assign Source Range Min 6	(0 - 126)
				0 - 126
00 5A	0ddd dddd	1	CTL1 Assign Source Range Max 1	(1 - 127)
				1 - 127
00 5B	0ddd dddd	1	CTL1 Assign Source Range Max 2	(1 - 127)
				1 - 127
00 5C	0ddd dddd	1	CTL1 Assign Source Range Max 3	(1 - 127)
				1 - 127
00 5D	0ddd dddd	1	CTL1 Assign Source Range Max 4	(1 - 127)
				1 - 127
00 5E	0ddd dddd	1	CTL1 Assign Source Range Max 5	(1 - 127)
				1 - 127
00 5F	0ddd dddd	1	CTL1 Assign Source Range Max 6	(1 - 127)

				1 - 127
00 60	0ddd dddd	1	CTL1 Legato Rise Time 1	(0 - 100)
				0 - 100
00 61	0ddd dddd	1	CTL1 Legato Rise Time 2	(0 - 100)
				0 - 100
00 62	0ddd dddd	1	CTL1 Legato Rise Time 3	(0 - 100)
				0 - 100
00 63	0ddd dddd	1	CTL1 Legato Rise Time 4	(0 - 100)
				0 - 100
00 64	0ddd dddd	1	CTL1 Legato Rise Time 5	(0 - 100)
				0 - 100
00 65	0ddd dddd	1	CTL1 Legato Rise Time 6	(0 - 100)
				0 - 100
00 66	0ddd dddd	1	CTL1 Legato Fall Time 1	(0 - 100)
				0 - 100
00 67	0ddd dddd	1	CTL1 Legato Fall Time 2	(0 - 100)
				0 - 100
00 68	0ddd dddd	1	CTL1 Legato Fall Time 3	(0 - 100)
				0 - 100
00 69	0ddd dddd	1	CTL1 Legato Fall Time 4	(0 - 100)
				0 - 100
00 6A	0ddd dddd	1	CTL1 Legato Fall Time 5	(0 - 100)
				0 - 100
00 6B	0ddd dddd	1	CTL1 Legato Fall Time 6	(0 - 100)
				0 - 100
00 6C	0000 00dd	1	CTL1 Legato Rise Curve 1	(0 - 2)
				LINEAR, SLOW RISE, FAST RISE
00 6D	0000 00dd	1	CTL1 Legato Rise Curve 2	(0 - 2)
				LINEAR, SLOW RISE, FAST RISE
00 6E	0000 00dd	1	CTL1 Legato Rise Curve 3	(0 - 2)
				LINEAR, SLOW RISE, FAST RISE
00 6F	0000 00dd	1	CTL1 Legato Rise Curve 4	(0 - 2)
				LINEAR, SLOW RISE, FAST RISE
00 70	0000 00dd	1	CTL1 Legato Rise Curve 5	(0 - 2)
				LINEAR, SLOW RISE, FAST RISE
00 71	0000 00dd	1	CTL1 Legato Rise Curve 6	(0 - 2)
				LINEAR, SLOW RISE, FAST RISE
00 72	0000 00dd	1	CTL1 Legato Fall Curve 1	(0 - 2)
				LINEAR, SLOW FALL, FAST FALL
00 73	0000 00dd	1	CTL1 Legato Fall Curve 2	(0 - 2)
				LINEAR, SLOW FALL, FAST FALL
00 74	0000 00dd	1	CTL1 Legato Fall Curve 3	(0 - 2)
				LINEAR, SLOW FALL, FAST FALL
00 75	0000 00dd	1	CTL1 Legato Fall Curve 4	(0 - 2)
				LINEAR, SLOW FALL, FAST FALL
00 76	0000 00dd	1	CTL1 Legato Fall Curve 5	(0 - 2)
				LINEAR, SLOW FALL, FAST FALL
00 77	0000 00dd	1	CTL1 Legato Fall Curve 6	(0 - 2)
				LINEAR, SLOW FALL, FAST FALL
00 78	0000 aaaa	2	CTL1 Patch Select Number 1	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 7A	0000 aaaa	2	CTL1 Patch Select Number 2	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 7C	0000 aaaa	2	CTL1 Patch Select Number 3	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
00 7E	0000 aaaa	2	CTL1 Patch Select Number 4	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 00	0000 aaaa	2	CTL1 Patch Select Number 5	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 02	0000 aaaa	2	CTL1 Patch Select Number 6	(0 - 168)
				U01 - U99, P01 - P70
	0000 bbbb			
01 04	0000 000d	1	CTL2 Assign Switch 1	(0 - 1)
				OFF, ON
01 05	0000 000d	1	CTL2 Assign Switch 2	(0 - 1)
				OFF, ON
01 06	0000 000d	1	CTL2 Assign Switch 3	(0 - 1)
				OFF, ON
01 07	0000 000d	1	CTL2 Assign Switch 4	(0 - 1)
				OFF, ON
01 08	0000 000d	1	CTL2 Assign Switch 5	(0 - 1)
				OFF, ON
01 09	0000 000d	1	CTL2 Assign Switch 6	(0 - 1)
				OFF, ON
01 0A	0000 000d	1	CTL2 Assign Preset/Manual 1	(0 - 1)
				PRESET, MANUAL
01 0B	0000 000d	1	CTL2 Assign Preset/Manual 2	(0 - 1)
				PRESET, MANUAL
01 0C	0000 000d	1	CTL2 Assign Preset/Manual 3	(0 - 1)
				PRESET, MANUAL
01 0D	0000 000d	1	CTL2 Assign Preset/Manual 4	(0 - 1)
				PRESET, MANUAL
01 0E	0000 000d	1	CTL2 Assign Preset/Manual 5	(0 - 1)
				PRESET, MANUAL

01 0F	0000 000d	1	CTL2 Assign Preset/Manual 6	(0 - 1)	
				PRESET, MANUAL	
01 10	0000 aaaa	3	CTL2 Assign Target 1	(0 - 4095)	
				0 - 4095	
	0000 bbbb				
	0000 cccc				
01 13	0000 aaaa	3	CTL2 Assign Target 2	(0 - 4095)	
				0 - 4095	
	0000 bbbb				
	0000 cccc				
01 16	0000 aaaa	3	CTL2 Assign Target 3	(0 - 4095)	
				0 - 4095	
	0000 bbbb				
	0000 cccc				
01 19	0000 aaaa	3	CTL2 Assign Target 4	(0 - 4095)	
				0 - 4095	
	0000 bbbb				
	0000 cccc				
01 1C	0000 aaaa	3	CTL2 Assign Target 5	(0 - 4095)	
				0 - 4095	
	0000 bbbb				
	0000 cccc				
01 1F	0000 aaaa	3	CTL2 Assign Target 6	(0 - 4095)	
				0 - 4095	
	0000 bbbb				
	0000 cccc				
01 22	0000 aaaa	4	CTL2 Assign Target Min 1	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 26	0000 aaaa	4	CTL2 Assign Target Min 2	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 2A	0000 aaaa	4	CTL2 Assign Target Min 3	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 2E	0000 aaaa	4	CTL2 Assign Target Min 4	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 32	0000 aaaa	4	CTL2 Assign Target Min 5	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 36	0000 aaaa	4	CTL2 Assign Target Min 6	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 3A	0000 aaaa	4	CTL2 Assign Target Max 1	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 3E	0000 aaaa	4	CTL2 Assign Target Max 2	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 42	0000 aaaa	4	CTL2 Assign Target Max 3	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 46	0000 aaaa	4	CTL2 Assign Target Max 4	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 4A	0000 aaaa	4	CTL2 Assign Target Max 5	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 4E	0000 aaaa	4	CTL2 Assign Target Max 6	(0 - 65535) offset:32768	
				-32768 - 32767	
	0000 bbbb				
	0000 cccc				
	0000 dddd				
01 52	0000 000d	1	CTL2 Source Mode 1	(0 - 1)	
				MOMENT, TOGGLE	
01 53	0000 000d	1	CTL2 Source Mode 2	(0 - 1)	

					MOMENT, TOGGLE
01 54	0000 000d	1	CTL2 Source Mode 3		(0 - 1)
					MOMENT, TOGGLE
01 55	0000 000d	1	CTL2 Source Mode 4		(0 - 1)
					MOMENT, TOGGLE
01 56	0000 000d	1	CTL2 Source Mode 5		(0 - 1)
					MOMENT, TOGGLE
01 57	0000 000d	1	CTL2 Source Mode 6		(0 - 1)
					MOMENT, TOGGLE
01 58	0ddd dddd	1	CTL2 Assign Source Range Min 1		(0 - 126)
					0 - 126
01 59	0ddd dddd	1	CTL2 Assign Source Range Min 2		(0 - 126)
					0 - 126
01 5A	0ddd dddd	1	CTL2 Assign Source Range Min 3		(0 - 126)
					0 - 126
01 5B	0ddd dddd	1	CTL2 Assign Source Range Min 4		(0 - 126)
					0 - 126
01 5C	0ddd dddd	1	CTL2 Assign Source Range Min 5		(0 - 126)
					0 - 126
01 5D	0ddd dddd	1	CTL2 Assign Source Range Min 6		(0 - 126)
					0 - 126
01 5E	0ddd dddd	1	CTL2 Assign Source Range Max 1		(1 - 127)
					1 - 127
01 5F	0ddd dddd	1	CTL2 Assign Source Range Max 2		(1 - 127)
					1 - 127
01 60	0ddd dddd	1	CTL2 Assign Source Range Max 3		(1 - 127)
					1 - 127
01 61	0ddd dddd	1	CTL2 Assign Source Range Max 4		(1 - 127)
					1 - 127
01 62	0ddd dddd	1	CTL2 Assign Source Range Max 5		(1 - 127)
					1 - 127
01 63	0ddd dddd	1	CTL2 Assign Source Range Max 6		(1 - 127)
					1 - 127
01 64	0ddd dddd	1	CTL2 Legato Rise Time 1		(0 - 100)
					0 - 100
01 65	0ddd dddd	1	CTL2 Legato Rise Time 2		(0 - 100)
					0 - 100
01 66	0ddd dddd	1	CTL2 Legato Rise Time 3		(0 - 100)
					0 - 100
01 67	0ddd dddd	1	CTL2 Legato Rise Time 4		(0 - 100)
					0 - 100
01 68	0ddd dddd	1	CTL2 Legato Rise Time 5		(0 - 100)
					0 - 100
01 69	0ddd dddd	1	CTL2 Legato Rise Time 6		(0 - 100)
					0 - 100
01 6A	0ddd dddd	1	CTL2 Legato Fall Time 1		(0 - 100)
					0 - 100
01 6B	0ddd dddd	1	CTL2 Legato Fall Time 2		(0 - 100)
					0 - 100
01 6C	0ddd dddd	1	CTL2 Legato Fall Time 3		(0 - 100)
					0 - 100
01 6D	0ddd dddd	1	CTL2 Legato Fall Time 4		(0 - 100)
					0 - 100
01 6E	0ddd dddd	1	CTL2 Legato Fall Time 5		(0 - 100)
					0 - 100
01 6F	0ddd dddd	1	CTL2 Legato Fall Time 6		(0 - 100)
					0 - 100
01 70	0000 00dd	1	CTL2 Legato Rise Curve 1		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
01 71	0000 00dd	1	CTL2 Legato Rise Curve 2		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
01 72	0000 00dd	1	CTL2 Legato Rise Curve 3		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
01 73	0000 00dd	1	CTL2 Legato Rise Curve 4		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
01 74	0000 00dd	1	CTL2 Legato Rise Curve 5		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
01 75	0000 00dd	1	CTL2 Legato Rise Curve 6		(0 - 2)
					LINEAR, SLOW RISE, FAST RISE
01 76	0000 00dd	1	CTL2 Legato Fall Curve 1		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
01 77	0000 00dd	1	CTL2 Legato Fall Curve 2		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
01 78	0000 00dd	1	CTL2 Legato Fall Curve 3		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
01 79	0000 00dd	1	CTL2 Legato Fall Curve 4		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
01 7A	0000 00dd	1	CTL2 Legato Fall Curve 5		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
01 7B	0000 00dd	1	CTL2 Legato Fall Curve 6		(0 - 2)
					LINEAR, SLOW FALL, FAST FALL
01 7C	0000 aaaa	2	CTL2 Patch Select Number 1		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
01 7E	0000 aaaa	2	CTL2 Patch Select Number 2		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
02 00	0000 aaaa	2	CTL2 Patch Select Number 3		(0 - 168)
					U01 - U99, P01 - P70

	0000 bbbb				
02 02	0000 aaaa	2	CTL2 Patch Select Number 4		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
02 04	0000 aaaa	2	CTL2 Patch Select Number 5		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
02 06	0000 aaaa	2	CTL2 Patch Select Number 6		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
02 08	0000 000d	1	CTL3 Assign Switch 1		(0 - 1)
					OFF, ON
02 09	0000 000d	1	CTL3 Assign Switch 2		(0 - 1)
					OFF, ON
02 0A	0000 000d	1	CTL3 Assign Switch 3		(0 - 1)
					OFF, ON
02 0B	0000 000d	1	CTL3 Assign Switch 4		(0 - 1)
					OFF, ON
02 0C	0000 000d	1	CTL3 Assign Switch 5		(0 - 1)
					OFF, ON
02 0D	0000 000d	1	CTL3 Assign Switch 6		(0 - 1)
					OFF, ON
02 0E	0000 000d	1	CTL3 Assign Preset/Manual 1		(0 - 1)
					PRESET, MANUAL
02 0F	0000 000d	1	CTL3 Assign Preset/Manual 2		(0 - 1)
					PRESET, MANUAL
02 10	0000 000d	1	CTL3 Assign Preset/Manual 3		(0 - 1)
					PRESET, MANUAL
02 11	0000 000d	1	CTL3 Assign Preset/Manual 4		(0 - 1)
					PRESET, MANUAL
02 12	0000 000d	1	CTL3 Assign Preset/Manual 5		(0 - 1)
					PRESET, MANUAL
02 13	0000 000d	1	CTL3 Assign Preset/Manual 6		(0 - 1)
					PRESET, MANUAL
02 14	0000 aaaa	3	CTL3 Assign Target 1		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
02 17	0000 aaaa	3	CTL3 Assign Target 2		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
02 1A	0000 aaaa	3	CTL3 Assign Target 3		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
02 1D	0000 aaaa	3	CTL3 Assign Target 4		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
02 20	0000 aaaa	3	CTL3 Assign Target 5		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
02 23	0000 aaaa	3	CTL3 Assign Target 6		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
02 26	0000 aaaa	4	CTL3 Assign Target Min 1		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
02 2A	0000 aaaa	4	CTL3 Assign Target Min 2		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
02 2E	0000 aaaa	4	CTL3 Assign Target Min 3		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
02 32	0000 aaaa	4	CTL3 Assign Target Min 4		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
02 36	0000 aaaa	4	CTL3 Assign Target Min 5		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
02 3A	0000 aaaa	4	CTL3 Assign Target Min 6		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
02 3E	0000 aaaa	4	CTL3 Assign Target Max 1		(0 - 65535) offset:32768

					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
02 42	0000 aaaa		4	CTL3 Assign Target Max 2	(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
02 46	0000 aaaa		4	CTL3 Assign Target Max 3	(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
02 4A	0000 aaaa		4	CTL3 Assign Target Max 4	(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
02 4E	0000 aaaa		4	CTL3 Assign Target Max 5	(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
02 52	0000 aaaa		4	CTL3 Assign Target Max 6	(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
02 56	0000 000d		1	CTL3 Source Mode 1	(0 - 1)
					MOMENT, TOGGLE
02 57	0000 000d		1	CTL3 Source Mode 2	(0 - 1)
					MOMENT, TOGGLE
02 58	0000 000d		1	CTL3 Source Mode 3	(0 - 1)
					MOMENT, TOGGLE
02 59	0000 000d		1	CTL3 Source Mode 4	(0 - 1)
					MOMENT, TOGGLE
02 5A	0000 000d		1	CTL3 Source Mode 5	(0 - 1)
					MOMENT, TOGGLE
02 5B	0000 000d		1	CTL3 Source Mode 6	(0 - 1)
					MOMENT, TOGGLE
02 5C	0ddd dddd		1	CTL3 Assign Source Range Min 1	(0 - 126)
					0 - 126
02 5D	0ddd dddd		1	CTL3 Assign Source Range Min 2	(0 - 126)
					0 - 126
02 5E	0ddd dddd		1	CTL3 Assign Source Range Min 3	(0 - 126)
					0 - 126
02 5F	0ddd dddd		1	CTL3 Assign Source Range Min 4	(0 - 126)
					0 - 126
02 60	0ddd dddd		1	CTL3 Assign Source Range Min 5	(0 - 126)
					0 - 126
02 61	0ddd dddd		1	CTL3 Assign Source Range Min 6	(0 - 126)
					0 - 126
02 62	0ddd dddd		1	CTL3 Assign Source Range Max 1	(1 - 127)
					1 - 127
02 63	0ddd dddd		1	CTL3 Assign Source Range Max 2	(1 - 127)
					1 - 127
02 64	0ddd dddd		1	CTL3 Assign Source Range Max 3	(1 - 127)
					1 - 127
02 65	0ddd dddd		1	CTL3 Assign Source Range Max 4	(1 - 127)
					1 - 127
02 66	0ddd dddd		1	CTL3 Assign Source Range Max 5	(1 - 127)
					1 - 127
02 67	0ddd dddd		1	CTL3 Assign Source Range Max 6	(1 - 127)
					1 - 127
02 68	0ddd dddd		1	CTL3 Legato Rise Time 1	(0 - 100)
					0 - 100
02 69	0ddd dddd		1	CTL3 Legato Rise Time 2	(0 - 100)
					0 - 100
02 6A	0ddd dddd		1	CTL3 Legato Rise Time 3	(0 - 100)
					0 - 100
02 6B	0ddd dddd		1	CTL3 Legato Rise Time 4	(0 - 100)
					0 - 100
02 6C	0ddd dddd		1	CTL3 Legato Rise Time 5	(0 - 100)
					0 - 100
02 6D	0ddd dddd		1	CTL3 Legato Rise Time 6	(0 - 100)
					0 - 100
02 6E	0ddd dddd		1	CTL3 Legato Fall Time 1	(0 - 100)
					0 - 100
02 6F	0ddd dddd		1	CTL3 Legato Fall Time 2	(0 - 100)
					0 - 100
02 70	0ddd dddd		1	CTL3 Legato Fall Time 3	(0 - 100)
					0 - 100
02 71	0ddd dddd		1	CTL3 Legato Fall Time 4	(0 - 100)
					0 - 100
02 72	0ddd dddd		1	CTL3 Legato Fall Time 5	(0 - 100)
					0 - 100
02 73	0ddd dddd		1	CTL3 Legato Fall Time 6	(0 - 100)
					0 - 100

02 74	0000 00dd	1	CTL3 Legato Rise Curve 1	(0 - 2)	LINEAR, SLOW RISE, FAST RISE
02 75	0000 00dd	1	CTL3 Legato Rise Curve 2	(0 - 2)	LINEAR, SLOW RISE, FAST RISE
02 76	0000 00dd	1	CTL3 Legato Rise Curve 3	(0 - 2)	LINEAR, SLOW RISE, FAST RISE
02 77	0000 00dd	1	CTL3 Legato Rise Curve 4	(0 - 2)	LINEAR, SLOW RISE, FAST RISE
02 78	0000 00dd	1	CTL3 Legato Rise Curve 5	(0 - 2)	LINEAR, SLOW RISE, FAST RISE
02 79	0000 00dd	1	CTL3 Legato Rise Curve 6	(0 - 2)	LINEAR, SLOW RISE, FAST RISE
02 7A	0000 00dd	1	CTL3 Legato Fall Curve 1	(0 - 2)	LINEAR, SLOW FALL, FAST FALL
02 7B	0000 00dd	1	CTL3 Legato Fall Curve 2	(0 - 2)	LINEAR, SLOW FALL, FAST FALL
02 7C	0000 00dd	1	CTL3 Legato Fall Curve 3	(0 - 2)	LINEAR, SLOW FALL, FAST FALL
02 7D	0000 00dd	1	CTL3 Legato Fall Curve 4	(0 - 2)	LINEAR, SLOW FALL, FAST FALL
02 7E	0000 00dd	1	CTL3 Legato Fall Curve 5	(0 - 2)	LINEAR, SLOW FALL, FAST FALL
02 7F	0000 00dd	1	CTL3 Legato Fall Curve 6	(0 - 2)	LINEAR, SLOW FALL, FAST FALL
03 00	0000 aaaa	2	CTL3 Patch Select Number 1	(0 - 168)	U01 - U99, P01 - P70
	0000 bbbb				
03 02	0000 aaaa	2	CTL3 Patch Select Number 2	(0 - 168)	U01 - U99, P01 - P70
	0000 bbbb				
03 04	0000 aaaa	2	CTL3 Patch Select Number 3	(0 - 168)	U01 - U99, P01 - P70
	0000 bbbb				
03 06	0000 aaaa	2	CTL3 Patch Select Number 4	(0 - 168)	U01 - U99, P01 - P70
	0000 bbbb				
03 08	0000 aaaa	2	CTL3 Patch Select Number 5	(0 - 168)	U01 - U99, P01 - P70
	0000 bbbb				
03 0A	0000 aaaa	2	CTL3 Patch Select Number 6	(0 - 168)	U01 - U99, P01 - P70
	0000 bbbb				
03 0C	0000 000d	1	CTL4 Assign Switch 1	(0 - 1)	OFF, ON
03 0D	0000 000d	1	CTL4 Assign Switch 2	(0 - 1)	OFF, ON
03 0E	0000 000d	1	CTL4 Assign Switch 3	(0 - 1)	OFF, ON
03 0F	0000 000d	1	CTL4 Assign Switch 4	(0 - 1)	OFF, ON
03 10	0000 000d	1	CTL4 Assign Switch 5	(0 - 1)	OFF, ON
03 11	0000 000d	1	CTL4 Assign Switch 6	(0 - 1)	OFF, ON
03 12	0000 000d	1	CTL4 Assign Preset/Manual 1	(0 - 1)	PRESET, MANUAL
03 13	0000 000d	1	CTL4 Assign Preset/Manual 2	(0 - 1)	PRESET, MANUAL
03 14	0000 000d	1	CTL4 Assign Preset/Manual 3	(0 - 1)	PRESET, MANUAL
03 15	0000 000d	1	CTL4 Assign Preset/Manual 4	(0 - 1)	PRESET, MANUAL
03 16	0000 000d	1	CTL4 Assign Preset/Manual 5	(0 - 1)	PRESET, MANUAL
03 17	0000 000d	1	CTL4 Assign Preset/Manual 6	(0 - 1)	PRESET, MANUAL
03 18	0000 aaaa	3	CTL4 Assign Target 1	(0 - 4095)	0 - 4095
	0000 bbbb				
	0000 cccc				
03 1B	0000 aaaa	3	CTL4 Assign Target 2	(0 - 4095)	0 - 4095
	0000 bbbb				
	0000 cccc				
03 1E	0000 aaaa	3	CTL4 Assign Target 3	(0 - 4095)	0 - 4095
	0000 bbbb				
	0000 cccc				
03 21	0000 aaaa	3	CTL4 Assign Target 4	(0 - 4095)	0 - 4095
	0000 bbbb				
	0000 cccc				
03 24	0000 aaaa	3	CTL4 Assign Target 5	(0 - 4095)	0 - 4095
	0000 bbbb				
	0000 cccc				
03 27	0000 aaaa	3	CTL4 Assign Target 6	(0 - 4095)	0 - 4095
	0000 bbbb				

	0000 cccc				
03 2A	0000 aaaa	4	CTL4 Assign Target Min 1		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 2E	0000 aaaa	4	CTL4 Assign Target Min 2		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 32	0000 aaaa	4	CTL4 Assign Target Min 3		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 36	0000 aaaa	4	CTL4 Assign Target Min 4		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 3A	0000 aaaa	4	CTL4 Assign Target Min 5		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 3E	0000 aaaa	4	CTL4 Assign Target Min 6		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 42	0000 aaaa	4	CTL4 Assign Target Max 1		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 46	0000 aaaa	4	CTL4 Assign Target Max 2		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 4A	0000 aaaa	4	CTL4 Assign Target Max 3		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 4E	0000 aaaa	4	CTL4 Assign Target Max 4		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 52	0000 aaaa	4	CTL4 Assign Target Max 5		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 56	0000 aaaa	4	CTL4 Assign Target Max 6		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
03 5A	0000 000d	1	CTL4 Source Mode 1		(0 - 1)
					MOMENT, TOGGLE
03 5B	0000 000d	1	CTL4 Source Mode 2		(0 - 1)
					MOMENT, TOGGLE
03 5C	0000 000d	1	CTL4 Source Mode 3		(0 - 1)
					MOMENT, TOGGLE
03 5D	0000 000d	1	CTL4 Source Mode 4		(0 - 1)
					MOMENT, TOGGLE
03 5E	0000 000d	1	CTL4 Source Mode 5		(0 - 1)
					MOMENT, TOGGLE
03 5F	0000 000d	1	CTL4 Source Mode 6		(0 - 1)
					MOMENT, TOGGLE
03 60	0ddd dddd	1	CTL4 Assign Source Range Min 1		(0 - 126)
					0 - 126
03 61	0ddd dddd	1	CTL4 Assign Source Range Min 2		(0 - 126)
					0 - 126
03 62	0ddd dddd	1	CTL4 Assign Source Range Min 3		(0 - 126)
					0 - 126
03 63	0ddd dddd	1	CTL4 Assign Source Range Min 4		(0 - 126)
					0 - 126
03 64	0ddd dddd	1	CTL4 Assign Source Range Min 5		(0 - 126)
					0 - 126
03 65	0ddd dddd	1	CTL4 Assign Source Range Min 6		(0 - 126)
					0 - 126
03 66	0ddd dddd	1	CTL4 Assign Source Range Max 1		(1 - 127)
					1 - 127
03 67	0ddd dddd	1	CTL4 Assign Source Range Max 2		(1 - 127)
					1 - 127

03 68	0ddd dddd	1	CTL4 Assign Source Range Max 3	(1 - 127)	
				1 - 127	
03 69	0ddd dddd	1	CTL4 Assign Source Range Max 4	(1 - 127)	
				1 - 127	
03 6A	0ddd dddd	1	CTL4 Assign Source Range Max 5	(1 - 127)	
				1 - 127	
03 6B	0ddd dddd	1	CTL4 Assign Source Range Max 6	(1 - 127)	
				1 - 127	
03 6C	0ddd dddd	1	CTL4 Legato Rise Time 1	(0 - 100)	
				0 - 100	
03 6D	0ddd dddd	1	CTL4 Legato Rise Time 2	(0 - 100)	
				0 - 100	
03 6E	0ddd dddd	1	CTL4 Legato Rise Time 3	(0 - 100)	
				0 - 100	
03 6F	0ddd dddd	1	CTL4 Legato Rise Time 4	(0 - 100)	
				0 - 100	
03 70	0ddd dddd	1	CTL4 Legato Rise Time 5	(0 - 100)	
				0 - 100	
03 71	0ddd dddd	1	CTL4 Legato Rise Time 6	(0 - 100)	
				0 - 100	
03 72	0ddd dddd	1	CTL4 Legato Fall Time 1	(0 - 100)	
				0 - 100	
03 73	0ddd dddd	1	CTL4 Legato Fall Time 2	(0 - 100)	
				0 - 100	
03 74	0ddd dddd	1	CTL4 Legato Fall Time 3	(0 - 100)	
				0 - 100	
03 75	0ddd dddd	1	CTL4 Legato Fall Time 4	(0 - 100)	
				0 - 100	
03 76	0ddd dddd	1	CTL4 Legato Fall Time 5	(0 - 100)	
				0 - 100	
03 77	0ddd dddd	1	CTL4 Legato Fall Time 6	(0 - 100)	
				0 - 100	
03 78	0000 00dd	1	CTL4 Legato Rise Curve 1	(0 - 2)	
				LINEAR, SLOW RISE, FAST RISE	
03 79	0000 00dd	1	CTL4 Legato Rise Curve 2	(0 - 2)	
				LINEAR, SLOW RISE, FAST RISE	
03 7A	0000 00dd	1	CTL4 Legato Rise Curve 3	(0 - 2)	
				LINEAR, SLOW RISE, FAST RISE	
03 7B	0000 00dd	1	CTL4 Legato Rise Curve 4	(0 - 2)	
				LINEAR, SLOW RISE, FAST RISE	
03 7C	0000 00dd	1	CTL4 Legato Rise Curve 5	(0 - 2)	
				LINEAR, SLOW RISE, FAST RISE	
03 7D	0000 00dd	1	CTL4 Legato Rise Curve 6	(0 - 2)	
				LINEAR, SLOW RISE, FAST RISE	
03 7E	0000 00dd	1	CTL4 Legato Fall Curve 1	(0 - 2)	
				LINEAR, SLOW FALL, FAST FALL	
03 7F	0000 00dd	1	CTL4 Legato Fall Curve 2	(0 - 2)	
				LINEAR, SLOW FALL, FAST FALL	
04 00	0000 00dd	1	CTL4 Legato Fall Curve 3	(0 - 2)	
				LINEAR, SLOW FALL, FAST FALL	
04 01	0000 00dd	1	CTL4 Legato Fall Curve 4	(0 - 2)	
				LINEAR, SLOW FALL, FAST FALL	
04 02	0000 00dd	1	CTL4 Legato Fall Curve 5	(0 - 2)	
				LINEAR, SLOW FALL, FAST FALL	
04 03	0000 00dd	1	CTL4 Legato Fall Curve 6	(0 - 2)	
				LINEAR, SLOW FALL, FAST FALL	
04 04	0000 aaaa	2	CTL4 Patch Select Number 1	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
04 06	0000 aaaa	2	CTL4 Patch Select Number 2	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
04 08	0000 aaaa	2	CTL4 Patch Select Number 3	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
04 0A	0000 aaaa	2	CTL4 Patch Select Number 4	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
04 0C	0000 aaaa	2	CTL4 Patch Select Number 5	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
04 0E	0000 aaaa	2	CTL4 Patch Select Number 6	(0 - 168)	
				U01 - U99, P01 - P70	
	0000 bbbb				
04 10	0000 000d	1	CTL5 Assign Switch 1	(0 - 1)	
				OFF, ON	
04 11	0000 000d	1	CTL5 Assign Switch 2	(0 - 1)	
				OFF, ON	
04 12	0000 000d	1	CTL5 Assign Switch 3	(0 - 1)	
				OFF, ON	
04 13	0000 000d	1	CTL5 Assign Switch 4	(0 - 1)	
				OFF, ON	
04 14	0000 000d	1	CTL5 Assign Switch 5	(0 - 1)	
				OFF, ON	
04 15	0000 000d	1	CTL5 Assign Switch 6	(0 - 1)	
				OFF, ON	
04 16	0000 000d	1	CTL5 Assign Preset/Manual 1	(0 - 1)	
				PRESET, MANUAL	
04 17	0000 000d	1	CTL5 Assign Preset/Manual 2	(0 - 1)	

					PRESET, MANUAL
04 18	0000 000d	1	CTL5 Assign Preset/Manual 3		(0 - 1)
					PRESET, MANUAL
04 19	0000 000d	1	CTL5 Assign Preset/Manual 4		(0 - 1)
					PRESET, MANUAL
04 1A	0000 000d	1	CTL5 Assign Preset/Manual 5		(0 - 1)
					PRESET, MANUAL
04 1B	0000 000d	1	CTL5 Assign Preset/Manual 6		(0 - 1)
					PRESET, MANUAL
04 1C	0000 aaaa	3	CTL5 Assign Target 1		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
04 1F	0000 aaaa	3	CTL5 Assign Target 2		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
04 22	0000 aaaa	3	CTL5 Assign Target 3		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
04 25	0000 aaaa	3	CTL5 Assign Target 4		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
04 28	0000 aaaa	3	CTL5 Assign Target 5		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
04 2B	0000 aaaa	3	CTL5 Assign Target 6		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
04 2E	0000 aaaa	4	CTL5 Assign Target Min 1		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 32	0000 aaaa	4	CTL5 Assign Target Min 2		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 36	0000 aaaa	4	CTL5 Assign Target Min 3		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 3A	0000 aaaa	4	CTL5 Assign Target Min 4		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 3E	0000 aaaa	4	CTL5 Assign Target Min 5		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 42	0000 aaaa	4	CTL5 Assign Target Min 6		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 46	0000 aaaa	4	CTL5 Assign Target Max 1		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 4A	0000 aaaa	4	CTL5 Assign Target Max 2		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 4E	0000 aaaa	4	CTL5 Assign Target Max 3		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 52	0000 aaaa	4	CTL5 Assign Target Max 4		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 56	0000 aaaa	4	CTL5 Assign Target Max 5		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
04 5A	0000 aaaa	4	CTL5 Assign Target Max 6		(0 - 65535) offset:32768

		0000 bbbb			-32768 - 32767
		0000 cccc			
		0000 dddd			
	04 5E	0000 000d	1	CTL5 Source Mode 1	(0 - 1) MOMENT, TOGGLE
	04 5F	0000 000d	1	CTL5 Source Mode 2	(0 - 1) MOMENT, TOGGLE
	04 60	0000 000d	1	CTL5 Source Mode 3	(0 - 1) MOMENT, TOGGLE
	04 61	0000 000d	1	CTL5 Source Mode 4	(0 - 1) MOMENT, TOGGLE
	04 62	0000 000d	1	CTL5 Source Mode 5	(0 - 1) MOMENT, TOGGLE
	04 63	0000 000d	1	CTL5 Source Mode 6	(0 - 1) MOMENT, TOGGLE
	04 64	0ddd dddd	1	CTL5 Assign Source Range Min 1	(0 - 126) 0 - 126
	04 65	0ddd dddd	1	CTL5 Assign Source Range Min 2	(0 - 126) 0 - 126
	04 66	0ddd dddd	1	CTL5 Assign Source Range Min 3	(0 - 126) 0 - 126
	04 67	0ddd dddd	1	CTL5 Assign Source Range Min 4	(0 - 126) 0 - 126
	04 68	0ddd dddd	1	CTL5 Assign Source Range Min 5	(0 - 126) 0 - 126
	04 69	0ddd dddd	1	CTL5 Assign Source Range Min 6	(0 - 126) 0 - 126
	04 6A	0ddd dddd	1	CTL5 Assign Source Range Max 1	(1 - 127) 1 - 127
	04 6B	0ddd dddd	1	CTL5 Assign Source Range Max 2	(1 - 127) 1 - 127
	04 6C	0ddd dddd	1	CTL5 Assign Source Range Max 3	(1 - 127) 1 - 127
	04 6D	0ddd dddd	1	CTL5 Assign Source Range Max 4	(1 - 127) 1 - 127
	04 6E	0ddd dddd	1	CTL5 Assign Source Range Max 5	(1 - 127) 1 - 127
	04 6F	0ddd dddd	1	CTL5 Assign Source Range Max 6	(1 - 127) 1 - 127
	04 70	0ddd dddd	1	CTL5 Legato Rise Time 1	(0 - 100) 0 - 100
	04 71	0ddd dddd	1	CTL5 Legato Rise Time 2	(0 - 100) 0 - 100
	04 72	0ddd dddd	1	CTL5 Legato Rise Time 3	(0 - 100) 0 - 100
	04 73	0ddd dddd	1	CTL5 Legato Rise Time 4	(0 - 100) 0 - 100
	04 74	0ddd dddd	1	CTL5 Legato Rise Time 5	(0 - 100) 0 - 100
	04 75	0ddd dddd	1	CTL5 Legato Rise Time 6	(0 - 100) 0 - 100
	04 76	0ddd dddd	1	CTL5 Legato Fall Time 1	(0 - 100) 0 - 100
	04 77	0ddd dddd	1	CTL5 Legato Fall Time 2	(0 - 100) 0 - 100
	04 78	0ddd dddd	1	CTL5 Legato Fall Time 3	(0 - 100) 0 - 100
	04 79	0ddd dddd	1	CTL5 Legato Fall Time 4	(0 - 100) 0 - 100
	04 7A	0ddd dddd	1	CTL5 Legato Fall Time 5	(0 - 100) 0 - 100
	04 7B	0ddd dddd	1	CTL5 Legato Fall Time 6	(0 - 100) 0 - 100
	04 7C	0000 00dd	1	CTL5 Legato Rise Curve 1	(0 - 2) LINEAR, SLOW RISE, FAST RISE
	04 7D	0000 00dd	1	CTL5 Legato Rise Curve 2	(0 - 2) LINEAR, SLOW RISE, FAST RISE
	04 7E	0000 00dd	1	CTL5 Legato Rise Curve 3	(0 - 2) LINEAR, SLOW RISE, FAST RISE
	04 7F	0000 00dd	1	CTL5 Legato Rise Curve 4	(0 - 2) LINEAR, SLOW RISE, FAST RISE
	05 00	0000 00dd	1	CTL5 Legato Rise Curve 5	(0 - 2) LINEAR, SLOW RISE, FAST RISE
	05 01	0000 00dd	1	CTL5 Legato Rise Curve 6	(0 - 2) LINEAR, SLOW RISE, FAST RISE
	05 02	0000 00dd	1	CTL5 Legato Fall Curve 1	(0 - 2) LINEAR, SLOW FALL, FAST FALL
	05 03	0000 00dd	1	CTL5 Legato Fall Curve 2	(0 - 2) LINEAR, SLOW FALL, FAST FALL
	05 04	0000 00dd	1	CTL5 Legato Fall Curve 3	(0 - 2) LINEAR, SLOW FALL, FAST FALL
	05 05	0000 00dd	1	CTL5 Legato Fall Curve 4	(0 - 2) LINEAR, SLOW FALL, FAST FALL
	05 06	0000 00dd	1	CTL5 Legato Fall Curve 5	(0 - 2) LINEAR, SLOW FALL, FAST FALL
	05 07	0000 00dd	1	CTL5 Legato Fall Curve 6	(0 - 2) LINEAR, SLOW FALL, FAST FALL
	05 08	0000 aaaa	2	CTL5 Patch Select Number 1	(0 - 168)

					U01 - U99, P01 - P70
	0000 bbbb				
05 0A	0000 aaaa	2	CTL5 Patch Select Number 2		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
05 0C	0000 aaaa	2	CTL5 Patch Select Number 3		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
05 0E	0000 aaaa	2	CTL5 Patch Select Number 4		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
05 10	0000 aaaa	2	CTL5 Patch Select Number 5		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
05 12	0000 aaaa	2	CTL5 Patch Select Number 6		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
05 14	0000 000d	1	EXP Assign Switch 1		(0 - 1)
					OFF, ON
05 15	0000 000d	1	EXP Assign Switch 2		(0 - 1)
					OFF, ON
05 16	0000 000d	1	EXP Assign Switch 3		(0 - 1)
					OFF, ON
05 17	0000 0000	3	Reserved 1		(0 - 0)
					0 - 0
05 1A	0000 aaaa	3	EXP Assign Target 1		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
05 1D	0000 aaaa	3	EXP Assign Target 2		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
05 20	0000 aaaa	3	EXP Assign Target 3		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
05 23	0000 aaaa	4	EXP Assign Target Min 1		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 27	0000 aaaa	4	EXP Assign Target Min 2		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 2B	0000 aaaa	4	EXP Assign Target Min 3		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 2F	0000 aaaa	4	EXP Assign Target Max 1		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 33	0000 aaaa	4	EXP Assign Target Max 2		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 37	0000 aaaa	4	EXP Assign Target Max 3		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 3B	0000 000d	1	EXP Source Mode 1		(0 - 1)
					MOMENT, TOGGLE
05 3C	0000 000d	1	EXP Source Mode 2		(0 - 1)
					MOMENT, TOGGLE
05 3D	0000 000d	1	EXP Source Mode 3		(0 - 1)
					MOMENT, TOGGLE
05 3E	0ddd dddd	1	EXP Assign Source Range Min 1		(0 - 126)
					0 - 126
05 3F	0ddd dddd	1	EXP Assign Source Range Min 2		(0 - 126)
					0 - 126
05 40	0ddd dddd	1	EXP Assign Source Range Min 3		(0 - 126)
					0 - 126
05 41	0ddd dddd	1	EXP Assign Source Range Max 1		(1 - 127)
					1 - 127
05 42	0ddd dddd	1	EXP Assign Source Range Max 2		(1 - 127)
					1 - 127
05 43	0ddd dddd	1	EXP Assign Source Range Max 3		(1 - 127)
					1 - 127
05 44	0000 aaaa	2	EXP Patch Select Number 1		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
05 46	0000 aaaa	2	EXP Patch Select Number 2		(0 - 168)

					U01 - U99, P01 - P70
	0000 bbbb				
05 48	0000 aaaa	2	EXP Patch Select Number 3		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
05 4A	0000 0000	6	Reserved		(0 - 0)
					0 - 0
05 50	0000 000d	1	WAVE Assign Switch 1		(0 - 1)
					OFF, ON
05 51	0000 000d	1	WAVE Assign Switch 2		(0 - 1)
					OFF, ON
05 52	0000 000d	1	WAVE Assign Switch 3		(0 - 1)
					OFF, ON
05 53	0000 0000	3	Reserved		(0 - 0)
					0 - 0
05 56	0000 aaaa	3	WAVE Assign Target 1		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
05 59	0000 aaaa	3	WAVE Assign Target 2		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
05 5C	0000 aaaa	3	WAVE Assign Target 3		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
05 5F	0000 aaaa	4	WAVE Assign Target Min 1		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 63	0000 aaaa	4	WAVE Assign Target Min 2		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 67	0000 aaaa	4	WAVE Assign Target Min 3		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 6B	0000 aaaa	4	WAVE Assign Target Max 1		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 6F	0000 aaaa	4	WAVE Assign Target Max 2		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 73	0000 aaaa	4	WAVE Assign Target Max 3		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
05 77	0000 000d	1	WAVE Source Mode 1		(0 - 1)
					MOMENT, TOGGLE
05 78	0000 000d	1	WAVE Source Mode 2		(0 - 1)
					MOMENT, TOGGLE
05 79	0000 000d	1	WAVE Source Mode 3		(0 - 1)
					MOMENT, TOGGLE
05 7A	0ddd dddd	1	WAVE Assign Source Range Min 1		(0 - 126)
					0 - 126
05 7B	0ddd dddd	1	WAVE Assign Source Range Min 2		(0 - 126)
					0 - 126
05 7C	0ddd dddd	1	WAVE Assign Source Range Min 3		(0 - 126)
					0 - 126
05 7D	0ddd dddd	1	WAVE Assign Source Range Max 1		(1 - 127)
					1 - 127
05 7E	0ddd dddd	1	WAVE Assign Source Range Max 2		(1 - 127)
					1 - 127
05 7F	0ddd dddd	1	WAVE Assign Source Range Max 3		(1 - 127)
					1 - 127
06 00	0ddd dddd	1	WAVE Pedal Rate 1		(0 - 113)
					0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3,
					4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH
06 01	0ddd dddd	1	WAVE Pedal Rate 2		(0 - 113)
					0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3,
					4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH
06 02	0ddd dddd	1	WAVE Pedal Rate 3		(0 - 113)
					0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3,
					4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH
06 03	0000 00dd	1	WAVE Pedal Wave Form 1		(0 - 2)
					SAW, TRI, SIN
06 04	0000 00dd	1	WAVE Pedal Wave Form 2		(0 - 2)
					SAW, TRI, SIN
06 05	0000 00dd	1	WAVE Pedal Wave Form 3		(0 - 2)

					SAW, TRI, SIN
06 06	0000 aaaa	2	WAVE Patch Select Number 1		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
06 08	0000 aaaa	2	WAVE Patch Select Number 2		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
06 0A	0000 aaaa	2	WAVE Patch Select Number 3		(0 - 168)
					U01 - U99, P01 - P70
	0000 bbbb				
06 0C	0000 000d	1	MIDI CC Assign Switch 1		(0 - 1)
					OFF, ON
06 0D	0000 000d	1	MIDI CC Assign Switch 2		(0 - 1)
					OFF, ON
06 0E	0000 000d	1	MIDI CC Assign Switch 3		(0 - 1)
					OFF, ON
06 0F	0000 000d	1	MIDI CC Assign Switch 4		(0 - 1)
					OFF, ON
06 10	0000 000d	1	MIDI CC Assign Switch 5		(0 - 1)
					OFF, ON
06 11	0000 000d	1	MIDI CC Assign Switch 6		(0 - 1)
					OFF, ON
06 12	0000 0000	6	Reserved		(0 - 0)
					0 - 0
06 18	0000 aaaa	3	MIDI CC Assign Target 1		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
06 1B	0000 aaaa	3	MIDI CC Assign Target 2		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
06 1E	0000 aaaa	3	MIDI CC Assign Target 3		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
06 21	0000 aaaa	3	MIDI CC Assign Target 4		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
06 24	0000 aaaa	3	MIDI CC Assign Target 5		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
06 27	0000 aaaa	3	MIDI CC Assign Target 6		(0 - 4095)
					0 - 4095
	0000 bbbb				
	0000 cccc				
06 2A	0000 aaaa	4	MIDI CC Assign Target Min 1		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 2E	0000 aaaa	4	MIDI CC Assign Target Min 2		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 32	0000 aaaa	4	MIDI CC Assign Target Min 3		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 36	0000 aaaa	4	MIDI CC Assign Target Min 4		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 3A	0000 aaaa	4	MIDI CC Assign Target Min 5		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 3E	0000 aaaa	4	MIDI CC Assign Target Min 6		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 42	0000 aaaa	4	MIDI CC Assign Target Max 1		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 46	0000 aaaa	4	MIDI CC Assign Target Max 2		(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 4A	0000 aaaa	4	MIDI CC Assign Target Max 3		(0 - 65535) offset:32768

					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 4E	0000 aaaa		4	MIDI CC Assign Target Max 4	(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 52	0000 aaaa		4	MIDI CC Assign Target Max 5	(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 56	0000 aaaa		4	MIDI CC Assign Target Max 6	(0 - 65535) offset:32768
					-32768 - 32767
	0000 bbbb				
	0000 cccc				
	0000 dddd				
06 5A	00dd dddd		1	MIDI CC Source Number 1	(1 - 63)
					OFF, CC#1 - 31, CC#64 - 95
06 5B	00dd dddd		1	MIDI CC Source Number 2	(1 - 63)
					OFF, CC#1 - 31, CC#64 - 95
06 5C	00dd dddd		1	MIDI CC Source Number 3	(1 - 63)
					OFF, CC#1 - 31, CC#64 - 95
06 5D	00dd dddd		1	MIDI CC Source Number 4	(1 - 63)
					OFF, CC#1 - 31, CC#64 - 95
06 5E	00dd dddd		1	MIDI CC Source Number 5	(1 - 63)
					OFF, CC#1 - 31, CC#64 - 95
06 5F	00dd dddd		1	MIDI CC Source Number 6	(1 - 63)
					OFF, CC#1 - 31, CC#64 - 95
06 60	0000 000d		1	MIDI CC Source Mode 1	(0 - 1)
					MOMENT, TOGGLE
06 61	0000 000d		1	MIDI CC Source Mode 2	(0 - 1)
					MOMENT, TOGGLE
06 62	0000 000d		1	MIDI CC Source Mode 3	(0 - 1)
					MOMENT, TOGGLE
06 63	0000 000d		1	MIDI CC Source Mode 4	(0 - 1)
					MOMENT, TOGGLE
06 64	0000 000d		1	MIDI CC Source Mode 5	(0 - 1)
					MOMENT, TOGGLE
06 65	0000 000d		1	MIDI CC Source Mode 6	(0 - 1)
					MOMENT, TOGGLE
06 66	0ddd dddd		1	MIDI CC Assign Source Range Min 1	(0 - 126)
					0 - 126
06 67	0ddd dddd		1	MIDI CC Assign Source Range Min 2	(0 - 126)
					0 - 126
06 68	0ddd dddd		1	MIDI CC Assign Source Range Min 3	(0 - 126)
					0 - 126
06 69	0ddd dddd		1	MIDI CC Assign Source Range Min 4	(0 - 126)
					0 - 126
06 6A	0ddd dddd		1	MIDI CC Assign Source Range Min 5	(0 - 126)
					0 - 126
06 6B	0ddd dddd		1	MIDI CC Assign Source Range Min 6	(0 - 126)
					0 - 126
06 6C	0ddd dddd		1	MIDI CC Assign Source Range Max 1	(1 - 127)
					1 - 127
06 6D	0ddd dddd		1	MIDI CC Assign Source Range Max 2	(1 - 127)
					1 - 127
06 6E	0ddd dddd		1	MIDI CC Assign Source Range Max 3	(1 - 127)
					1 - 127
06 6F	0ddd dddd		1	MIDI CC Assign Source Range Max 4	(1 - 127)
					1 - 127
06 70	0ddd dddd		1	MIDI CC Assign Source Range Max 5	(1 - 127)
					1 - 127
06 71	0ddd dddd		1	MIDI CC Assign Source Range Max 6	(1 - 127)
					1 - 127
06 72	0ddd dddd		1	MIDI CC Legato Rise Time 1	(0 - 100)
					0 - 100
06 73	0ddd dddd		1	MIDI CC Legato Rise Time 2	(0 - 100)
					0 - 100
06 74	0ddd dddd		1	MIDI CC Legato Rise Time 3	(0 - 100)
					0 - 100
06 75	0ddd dddd		1	MIDI CC Legato Rise Time 4	(0 - 100)
					0 - 100
06 76	0ddd dddd		1	MIDI CC Legato Rise Time 5	(0 - 100)
					0 - 100
06 77	0ddd dddd		1	MIDI CC Legato Rise Time 6	(0 - 100)
					0 - 100
06 78	0ddd dddd		1	MIDI CC Legato Fall Time 1	(0 - 100)
					0 - 100
06 79	0ddd dddd		1	MIDI CC Legato Fall Time 2	(0 - 100)
					0 - 100
06 7A	0ddd dddd		1	MIDI CC Legato Fall Time 3	(0 - 100)
					0 - 100
06 7B	0ddd dddd		1	MIDI CC Legato Fall Time 4	(0 - 100)
					0 - 100
06 7C	0ddd dddd		1	MIDI CC Legato Fall Time 5	(0 - 100)
					0 - 100

06 7D	0ddd dddd	1	MIDI CC Legato Fall Time 6	(0 - 100)	0 - 100
06 7E	0000 00dd	1	MIDI CC Legato Rise Curve 1	(0 - 2)	LINEAR, SLOW RISE, FAST RISE
06 7F	0000 00dd	1	MIDI CC Legato Rise Curve 2	(0 - 2)	LINEAR, SLOW RISE, FAST RISE
07 00	0000 00dd	1	MIDI CC Legato Rise Curve 3	(0 - 2)	LINEAR, SLOW RISE, FAST RISE
07 01	0000 00dd	1	MIDI CC Legato Rise Curve 4	(0 - 2)	LINEAR, SLOW RISE, FAST RISE
07 02	0000 00dd	1	MIDI CC Legato Rise Curve 5	(0 - 2)	LINEAR, SLOW RISE, FAST RISE
07 03	0000 00dd	1	MIDI CC Legato Rise Curve 6	(0 - 2)	LINEAR, SLOW RISE, FAST RISE
07 04	0000 00dd	1	MIDI CC Legato Fall Curve 1	(0 - 2)	LINEAR, SLOW FALL, FAST FALL
07 05	0000 00dd	1	MIDI CC Legato Fall Curve 2	(0 - 2)	LINEAR, SLOW FALL, FAST FALL
07 06	0000 00dd	1	MIDI CC Legato Fall Curve 3	(0 - 2)	LINEAR, SLOW FALL, FAST FALL
07 07	0000 00dd	1	MIDI CC Legato Fall Curve 4	(0 - 2)	LINEAR, SLOW FALL, FAST FALL
07 08	0000 00dd	1	MIDI CC Legato Fall Curve 5	(0 - 2)	LINEAR, SLOW FALL, FAST FALL
07 09	0000 00dd	1	MIDI CC Legato Fall Curve 6	(0 - 2)	LINEAR, SLOW FALL, FAST FALL
07 0A	0000 aaaa 0000 bbbb	2	MIDI CC Patch Select Number 1	(0 - 168)	U01 - U99, P01 - P70
07 0C	0000 aaaa 0000 bbbb	2	MIDI CC Patch Select Number 2	(0 - 168)	U01 - U99, P01 - P70
07 0E	0000 aaaa 0000 bbbb	2	MIDI CC Patch Select Number 3	(0 - 168)	U01 - U99, P01 - P70
07 10	0000 aaaa 0000 bbbb	2	MIDI CC Patch Select Number 4	(0 - 168)	U01 - U99, P01 - P70
07 12	0000 aaaa 0000 bbbb	2	MIDI CC Patch Select Number 5	(0 - 168)	U01 - U99, P01 - P70
07 14	0000 aaaa 0000 bbbb	2	MIDI CC Patch Select Number 6	(0 - 168)	U01 - U99, P01 - P70
07 16	0000 0000	42	Reserved	(0 - 0)	0 - 0

* Patch Synth/Fx Chain Parameters Offset Address

Offset Address	Description	ByteSize		
00 00	0000 0ddd	1	Chain1	(0 - 5) SPLIT, FX1, FX2, FX3, FX4, SUBOUT
00 01	0000 0ddd	1	Chain2	(0 - 5) SPLIT, FX1, FX2, FX3, FX4, SUBOUT
00 02	0000 0ddd	1	Chain3	(0 - 5) SPLIT, FX1, FX2, FX3, FX4, SUBOUT
00 03	0000 0ddd	1	Chain4	(0 - 5) SPLIT, FX1, FX2, FX3, FX4, SUBOUT
00 04	0000 0ddd	1	Chain5	(0 - 5) SPLIT, FX1, FX2, FX3, FX4, SUBOUT
00 05	0000 0ddd	1	Chain6	(0 - 5) SPLIT, FX1, FX2, FX3, FX4, SUBOUT
00 06	0000 0ddd	1	Chain7	(0 - 5) SPLIT, FX1, FX2, FX3, FX4, SUBOUT
00 07	0000 0ddd	1	Chain8	(0 - 5) SPLIT, FX1, FX2, FX3, FX4, SUBOUT
00 08	0000 0ddd	1	Chain9	(0 - 5) SPLIT, FX1, FX2, FX3, FX4, SUBOUT
00 09	0000 0ddd	1	Chain10	(0 - 5) SPLIT, FX1, FX2, FX3, FX4, SUBOUT
00 0A	0000 0ddd	1	Chain11	(0 - 5) SPLIT, FX1, FX2, FX3, FX4, SUBOUT
00 0B	0000 0ddd	1	Chain12	(0 - 5) SPLIT, FX1, FX2, FX3, FX4, SUBOUT

* Patch Oscillator Common Parameters Offset Address

Offset Address	Description	ByteSize		
00 00	0000 00dd	1	OSC Sync 2	(0 - 2) OFF, ON, LOFI
00 01	0000 000d	1	OSC Ring 2	(0 - 1) OFF, ON
00 02	0000 00dd	1	OSC Sync 3	(0 - 2)

				OFF, ON, LOFI
00 03	0000 000d	1	OSC Ring 3	(0 - 1) OFF, ON
00 04	0000 000d	1	OSC2 SEQ Link Sw	(0 - 1) OFF, LINK OSC1
00 05	0000 000d	1	OSC3 SEQ Link Sw	(0 - 1) OFF, LINK OSC1
00 06	0000 0000	8	Reserved	(0 - 0) 0 - 0

* Patch Oscillator Parameters Offset Address

Offset Address	Description	ByteSize		
00 00	0000 000d	1	OSC SW	(0 - 1) OFF, ON
00 01	0000 0ddd	1	Waveform	(0 - 7) SIN, SAW, TRI, SQR, PWM, DETUNE SAW, NOISE, INPUT
00 02	0ddd dddd	1	Pulse Width	(0 - 100) 0 - 100
00 03	0ddd dddd	1	PWM Env Attack	(0 - 100) -50 - +50
00 04	0ddd dddd	1	PWM Env Depth	(0 - 100) -50 - +50
00 05	0ddd dddd	1	Detune	(0 - 100) -50 - +50
00 06	0ddd dddd	1	Sharpness	(0 - 100) 0 - 100
00 07	00dd dddd	1	Pitch	(0 - 48) -24 - +24
00 08	0ddd dddd	1	Pitch Fine	(0 - 100) -50 - +50
00 09	0ddd dddd	1	Pitch Env Attack	(0 - 100) -50 - +50
00 0A	0ddd dddd	1	Pitch Env Depth	(0 - 100) -50 - +50
00 0B	00dd dddd	1	Pitch Bend Depth	(0 - 48) -24 - +24
00 0C	0ddd dddd	1	Pitch Bend Control	(0 - 100) 0 - 100
00 0D	0000 0ddd	1	Filter Type	(0 - 4) BYPASS, LPF, HPF, BPF, PKG
00 0E	0000 000d	1	Filter Slope	(0 - 1) -12dB, -24dB
00 0F	0ddd dddd	1	Filter Cutoff	(0 - 100) 0 - 100
00 10	0ddd dddd	1	Filter Resonance	(0 - 100) 0 - 100
00 11	0ddd dddd	1	Filter Env Attack	(0 - 100) -50 - +50
00 12	0ddd dddd	1	Filter Env Depth	(0 - 100) -50 - +50
00 13	0ddd dddd	1	AMP Env Attack	(0 - 100) -50 - +50
00 14	0ddd dddd	1	AMP Level	(0 - 100) 0 - 200
00 15	0ddd dddd	1	AMP Pan	(0 - 100) L50 - CENTER - R50
00 16	0000 0000	1	Reserved	(0 - 0) 0 - 0
00 17	0000 000d	1	LFO Off/On 1	(0 - 1) OFF, ON
00 18	0000 0ddd	1	LFO Waveform 1	(0 - 6) SIN, SAW UP, SAW DOWN, TRI, SQR, RANDOM, S&H
00 19	0ddd dddd	1	LFO Rate 1	(0 - 116) 0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH, 32THd, 16TH3, 32TH
00 1A	0ddd dddd	1	LFO Pitch Depth 1	(0 - 100) 0 - 100
00 1B	0ddd dddd	1	LFO Filter Depth 1	(0 - 100) 0 - 100
00 1C	0ddd dddd	1	LFO Amp Depth 1	(0 - 100) 0 - 100
00 1D	0ddd dddd	1	LFO PWM Depth 1	(0 - 100) 0 - 100
00 1E	0000 000d	1	LFO Dynamic Depth 1	(0 - 1) OFF, ON
00 1F	0ddd dddd	1	LFO Fade Time 1	(0 - 100) 0 - 100
00 20	0000 000d	1	LFO Off/On 2	(0 - 1) OFF, ON
00 21	0000 0ddd	1	LFO Waveform 2	(0 - 6) SIN, SAW UP, SAW DOWN, TRI, SQR, RANDOM, S&H

Offset Address	Description	ByteSize		
00 22	0ddd dddd	1	LFO Rate 2	(0 - 116) 0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH, 32THd, 16TH3, 32TH
00 23	0ddd dddd	1	LFO Pitch Depth 2	(0 - 100) 0 - 100
00 24	0ddd dddd	1	LFO Filter Depth 2	(0 - 100) 0 - 100
00 25	0ddd dddd	1	LFO Amp Depth 2	(0 - 100) 0 - 100
00 26	0ddd dddd	1	LFO PWM Depth 2	(0 - 100) 0 - 100
00 27	0000 000d	1	LFO Dynamic Depth 2	(0 - 1) OFF, ON
00 28	0ddd dddd	1	LFO Fade Time 2	(0 - 100) 0 - 100
00 29	0000 000d	1	SEQ Sw	(0 - 1) OFF, ON
00 2A	0ddd dddd	1	SEQ Rate	(0 - 116) 0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH,
00 2B	0ddd dddd	1	SEQ Depth	(0 - 100) 0 - 100
00 2C	000d dddd	1	SEQ Loop Length	(1 - 16) 1 - 16
00 2D	00dd dddd	1	SEQ Step1	(0 - 48) -24 - +24
00 2E	00dd dddd	1	SEQ Step2	(0 - 48) -24 - +24
00 2F	00dd dddd	1	SEQ Step3	(0 - 48) -24 - +24
00 30	00dd dddd	1	SEQ Step4	(0 - 48) -24 - +24
00 31	00dd dddd	1	SEQ Step5	(0 - 48) -24 - +24
00 32	00dd dddd	1	SEQ Step6	(0 - 48) -24 - +24
00 33	00dd dddd	1	SEQ Step7	(0 - 48) -24 - +24
00 34	00dd dddd	1	SEQ Step8	(0 - 48) -24 - +24
00 35	00dd dddd	1	SEQ Step9	(0 - 48) -24 - +24
00 36	00dd dddd	1	SEQ Step10	(0 - 48) -24 - +24
00 37	00dd dddd	1	SEQ Step11	(0 - 48) -24 - +24
00 38	00dd dddd	1	SEQ Step12	(0 - 48) -24 - +24
00 39	00dd dddd	1	SEQ Step13	(0 - 48) -24 - +24
00 3A	00dd dddd	1	SEQ Step14	(0 - 48) -24 - +24
00 3B	00dd dddd	1	SEQ Step15	(0 - 48) -24 - +24
00 3C	00dd dddd	1	SEQ Step16	(0 - 48) -24 - +24
00 3D	00dd dddd	1	Input Range Lower Fade	(1 - 60) 1 - 60
00 3E	0ddd dddd	1	Input Range Lower	(21 - 88) A0 - E6
00 3F	0ddd dddd	1	Input Range Upper	(21 - 88) A0 - E6
00 40	00dd dddd	1	Input Range Upper Fade	(1 - 60) 1 - 60
00 41	0000 0000	8	Reserved	(0 - 0) 0 - 0

* Patch FX Parameters Offset Address

Offset Address	Description	ByteSize		
00 00	0000 000d	1	FX SW	(0 - 1) OFF, ON
00 01	000d dddd	1	FX TYPE	(0 - 20) CHORUS, CHO+DLY, CHO+REV, COMP, DELAY, DLY+REV, EQ, FLANGER, ISOLATOR, LIMITER, LO-FI, OD/DS, PAN, PHASER, REVERB, ROTARY, SLICER, SLOW GEAR, TOUCH WAH, TREMOLO, UNI-V
00 02	0000 00dd	1	Chorus Mode	(0 - 2) MONO, STEREO1, STEREO2
00 03	0ddd dddd	1	Chorus Rate	(0 - 116) 0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH,

00 04	0ddd dddd	1	Chorus Depth	(0 - 100) 0 - 100
00 05	0ddd dddd	1	Chorus Effect Level	(0 - 100) 0 - 100
00 06	0ddd dddd	1	Chorus Pre Delay	(0 - 80) 0.0ms - 40.0ms
00 07	000d dddd	1	Chorus Low Cut	(0 - 17) FLAT, 20.0Hz, 25.0Hz, 31.5Hz, 40.0Hz, 50.0Hz, 63.0Hz, 80.0Hz, 100Hz, 125Hz, 160Hz, 200Hz, 250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz
00 08	0000 dddd	1	Chorus High Cut	(0 - 14) 630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz, 2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz, 5.00kHz, 6.30kHz, 8.00kHz, 10.0kHz, 12.5kHz, FLAT
00 09	0ddd dddd	1	Chorus Direct Level	(0 - 100) 0 - 100
00 0A	0000 00dd	1	Chorus+Delay Chorus Mode	(0 - 2) MONO, STEREO1, STEREO2
00 0B	0ddd dddd	1	Chorus+Delay Chorus Rate	(0 - 116) 0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH,
00 0C	0ddd dddd	1	Chorus+Delay Chorus Depth	(0 - 100) 0 - 100
00 0D	0ddd dddd	1	Chorus+Delay Chorus Effect Level	(0 - 100) 0 - 100
00 0E	0ddd dddd	1	Chorus+Delay Chorus Pre Delay	(0 - 80) 0.0ms - 40.0ms
00 0F	000d dddd	1	Chorus+Delay Chorus Low Cut	(0 - 17) FLAT, 20.0Hz, 25.0Hz, 31.5Hz, 40.0Hz, 50.0Hz, 63.0Hz, 80.0Hz, 100Hz, 125Hz, 160Hz, 200Hz, 250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz
00 10	0000 dddd	1	Chorus+Delay Chorus High Cut	(0 - 14) 630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz, 2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz,
00 11	0ddd dddd	1	Chorus+Delay Chorus Direct Level	(0 - 100) 0 - 100
00 12	0000 dddd	1	Chorus+Delay Delay Type	(0 - 9) SINGLE, PAN, STEREO, DUAL-S, DUAL-P, DUAL-L/R, REVERSE, ANALOG, TAPE, MOD
00 13	0000 0aaa	3	Chorus+Delay Delay Time	(1 - 2013) 1ms - 2000ms, 16TH, 8TH3, 16THd, 8TH, 4TH3, 8THd, 4TH, 2TH3, 4THd, 2TH, WHL3, 2THd, WHL
	0000 bbbb			
	0000 cccc			
00 16	0ddd dddd	1	Chorus+Delay Delay Feedback	(0 - 100) 0 - 100
00 17	0ddd dddd	1	Chorus+Delay Delay Effect Level	(0 - 120) 0 - 120
00 18	0000 dddd	1	Chorus+Delay Delay High Cut	(0 - 14) 630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz, 2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz,
00 19	0ddd dddd	1	Chorus+Delay Delay Direct Level	(0 - 100) 0 - 100
00 1A	0ddd dddd	1	Chorus+Delay Delay Pan Tap Time	(0 - 100) 0% - 100%
00 1B	0000 00aa	3	Chorus+Delay Delay Dual Time 1	(1 - 1013) 1ms - 1000ms, 16TH, 8TH3, 16THd, 8TH, 4TH3, 8THd, 4TH, 2TH3, 4THd, 2TH, WHL3, 2THd, WHL
	0000 bbbb			
	0000 cccc			
00 1E	0ddd dddd	1	Chorus+Delay Delay Dual Feedback 1	(0 - 100) 0 - 100
00 1F	0000 dddd	1	Chorus+Delay Delay Dual High Cut 1	(0 - 14) 630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz, 2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz,
00 20	0ddd dddd	1	Chorus+Delay Delay Dual Effect Level 1	(0 - 120) 0 - 120
00 21	0000 00aa	3	Chorus+Delay Delay Dual Time 2	(1 - 1013) 1ms - 1000ms, 16TH, 8TH3, 16THd, 8TH, 4TH3, 8THd, 4TH, 2TH3, 4THd, 2TH, WHL3,
	0000 bbbb			
	0000 cccc			
00 24	0ddd dddd	1	Chorus+Delay Delay Dual Feedback 2	(0 - 100) 0 - 100
00 25	0000 dddd	1	Chorus+Delay Delay Dual High Cut 2	(0 - 14) 630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz, 2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz,
00 26	0ddd dddd	1	Chorus+Delay Delay Dual Effect Level 2	(0 - 120)

					0 - 120
00 27	0ddd dddd	1	Chorus+Delay Delay Mod Rate	(0 - 100)	
				0 - 100	
00 28	0ddd dddd	1	Chorus+Delay Delay Mod Depth	(0 - 100)	
				0 - 100	
00 29	0000 00dd	1	Chorus+Reverb Chorus Mode	(0 - 2)	
				MONO, STEREO1, STEREO2	
00 2A	0ddd dddd	1	Chorus+Reverb Chorus Rate	(0 - 116)	
				0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3,	
				4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH,	
00 2B	0ddd dddd	1	Chorus+Reverb Chorus Depth	(0 - 100)	
				0 - 100	
00 2C	0ddd dddd	1	Chorus+Reverb Chorus Effect Level	(0 - 100)	
				0 - 100	
00 2D	0ddd dddd	1	Chorus+Reverb Chorus Pre Delay	(0 - 80)	
				0.0ms - 40.0ms	
00 2E	000d dddd	1	Chorus+Reverb Chorus Low Cut	(0 - 17)	
				FLAT, 20.0Hz, 25.0Hz, 31.5Hz, 40.0Hz,	
				50.0Hz, 63.0Hz, 80.0Hz, 100Hz, 125Hz,	
00 2F	0000 dddd	1	Chorus+Reverb Chorus High Cut	(0 - 14)	
				630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz,	
				2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz,	
00 30	0ddd dddd	1	Chorus+Reverb Chorus Direct Level	(0 - 100)	
				0 - 100	
00 31	0000 0ddd	1	Chorus+Reverb Reverb Type	(0 - 6)	
				AMBIENC, ROOM, HALL1, HALL2, PLATE, SPRING,	
				MOD	
00 32	0ddd dddd	1	Chorus+Reverb Reverb Time	(0 - 99)	
				0.1s - 10.0s	
00 33	0000 000a	3	Chorus+Reverb Reverb Pre Delay	(0 - 500)	
				0ms - 500ms	
	0000 bbbb				
	0000 cccc				
00 36	0ddd dddd	1	Chorus+Reverb Reverb Effect Level	(0 - 100)	
				0 - 100	
00 37	000d dddd	1	Chorus+Reverb Reverb Low Cut	(0 - 17)	
				FLAT, 20.0Hz, 25.0Hz, 31.5Hz, 40.0Hz,	
				50.0Hz, 63.0Hz, 80.0Hz, 100Hz, 125Hz,	
00 38	0000 dddd	1	Chorus+Reverb Reverb High Cut	(0 - 14)	
				630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz,	
				2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz,	
00 39	0000 dddd	1	Chorus+Reverb Reverb Density	(0 - 10)	
				0 - 10	
00 3A	0ddd dddd	1	Chorus+Reverb Reverb Direct Level	(0 - 100)	
				0 - 100	
00 3B	0ddd dddd	1	Chorus+Reverb Reverb Spring Sens	(0 - 100)	
				0 - 100	
00 3C	0000 0ddd	1	Compressor Type	(0 - 6)	
				BOSS COMP, Hi-BAND, LIGHT, D-COMP, ORANGE,	
				FAT, MILD	
00 3D	0ddd dddd	1	Compressor Sustain	(0 - 100)	
				0 - 100	
00 3E	0ddd dddd	1	Compressor Attack	(0 - 100)	
				0 - 100	
00 3F	0ddd dddd	1	Compressor Effect Level	(0 - 100)	
				0 - 100	
00 40	0ddd dddd	1	Compressor Tone	(0 - 100)	
				-50 - +50	
00 41	0000 dddd	1	Delay Type	(0 - 9)	
				SINGLE, PAN, STEREO, DUAL-S, DUAL-P,	
				DUAL-L/R, REVERSE, ANALOG, TAPE, MOD	
00 42	0000 0aaa	3	Delay Time	(1 - 2013)	
				1ms - 2000ms, 16TH, 8TH3, 16THd, 8TH, 4TH3,	
				8THd, 4TH, 2TH3, 4THd, 2TH, WHL3, 2THd, WHL	
	0000 bbbb				
	0000 cccc				
00 45	0ddd dddd	1	Delay Feedback	(0 - 100)	
				0 - 100	
00 46	0ddd dddd	1	Delay Effect Level	(0 - 120)	
				0 - 120	
00 47	0000 dddd	1	Delay High Cut	(0 - 14)	
				630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz,	
				2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz,	
00 48	0ddd dddd	1	Delay Direct Level	(0 - 100)	
				0 - 100	
00 49	0ddd dddd	1	Delay Pan Tap Time	(0 - 100)	
				0% - 100%	
00 4A	0000 00aa	3	Delay Dual Time 1	(1 - 1013)	
				1ms - 1000ms, 16TH, 8TH3, 16THd, 8TH,	
				4TH3, 8THd, 4TH, 2TH3, 4THd, 2TH, WHL3,	
	0000 bbbb				
	0000 cccc				

00 4D	0ddd dddd	1	Delay Dual Feedback 1	(0 - 100) 0 - 100
00 4E	0000 dddd	1	Delay Dual High Cut 1	(0 - 14) 630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz, 2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz,
00 4F	0ddd dddd	1	Delay Dual Effect Level 1	(0 - 120) 0 - 120
00 50	0000 00aa	3	Delay Dual Time 2	(1 - 1013) 1ms - 1000ms, 16TH, 8TH3, 16THd, 8TH, 4TH3, 8THd, 4TH, 2TH3, 4THd, 2TH, WHL3,
	0000 bbbb			
	0000 cccc			
00 53	0ddd dddd	1	Delay Dual Feedback 2	(0 - 100) 0 - 100
00 54	0000 dddd	1	Delay Dual High Cut 2	(0 - 14) 630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz, 2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz,
00 55	0ddd dddd	1	Delay Dual Effect Level 2	(0 - 120) 0 - 120
00 56	0ddd dddd	1	Delay Mod Rate	(0 - 100) 0 - 100
00 57	0ddd dddd	1	Delay Mod Depth	(0 - 100) 0 - 100
00 58	0000 dddd	1	Delay+Reverb Delay Type	(0 - 9) SINGLE, PAN, STEREO, DUAL-S, DUAL-P, DUAL-L/R, REVERSE, ANALOG, TAPE, MOD
00 59	0000 0aaa	3	Delay+Reverb Delay Time	(1 - 2013) 1ms - 2000ms, 16TH, 8TH3, 16THd, 8TH, 4TH3, 8THd, 4TH, 2TH3, 4THd, 2TH, WHL3, 2THd, WHL
	0000 bbbb			
	0000 cccc			
00 5C	0ddd dddd	1	Delay+Reverb Delay Feedback	(0 - 100) 0 - 100
00 5D	0ddd dddd	1	Delay+Reverb Delay Effect Level	(0 - 120) 0 - 120
00 5E	0000 dddd	1	Delay+Reverb Delay High Cut	(0 - 14) 630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz, 2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz,
00 5F	0ddd dddd	1	Delay+Reverb Delay Direct Level	(0 - 100) 0 - 100
00 60	0ddd dddd	1	Delay+Reverb Delay Pan Tap Time	(0 - 100) 0% - 100%
00 61	0000 00aa	3	Delay+Reverb Delay Dual Time 1	(1 - 1013) 1ms - 1000ms, 16TH, 8TH3, 16THd, 8TH, 4TH3, 8THd, 4TH, 2TH3, 4THd, 2TH, WHL3,
	0000 bbbb			
	0000 cccc			
00 64	0ddd dddd	1	Delay+Reverb Delay Dual Feedback 1	(0 - 100) 0 - 100
00 65	0000 dddd	1	Delay+Reverb Delay Dual High Cut 1	(0 - 14) 630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz, 2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz,
00 66	0ddd dddd	1	Delay+Reverb Delay Dual Effect Level 1	(0 - 120) 0 - 120
00 67	0000 00aa	3	Delay+Reverb Delay Dual Time 2	(1 - 1013) 1ms - 1000ms, 16TH, 8TH3, 16THd, 8TH, 4TH3, 8THd, 4TH, 2TH3, 4THd, 2TH, WHL3,
	0000 bbbb			
	0000 cccc			
00 6A	0ddd dddd	1	Delay+Reverb Delay Dual Feedback 2	(0 - 100) 0 - 100
00 6B	0000 dddd	1	Delay+Reverb Delay Dual High Cut 2	(0 - 14) 630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz, 2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz,
00 6C	0ddd dddd	1	Delay+Reverb Delay Dual Effect Level 2	(0 - 120) 0 - 120
00 6D	0ddd dddd	1	Delay+Reverb Delay Mod Rate	(0 - 100) 0 - 100
00 6E	0ddd dddd	1	Delay+Reverb Delay Mod Depth	(0 - 100) 0 - 100
00 6F	0000 0ddd	1	Delay+Reverb Reverb Type	(0 - 6) AMBIENC, ROOM, HALL1, HALL2, PLATE, SPRING, MOD
00 70	0ddd dddd	1	Delay+Reverb Reverb Time	(0 - 99) 0.1s - 10.0s
00 71	0000 000a	3	Delay+Reverb Reverb Pre Delay	(0 - 500) 0ms - 500ms
	0000 bbbb			
	0000 cccc			
00 74	0ddd dddd	1	Delay+Reverb Reverb Effect Level	(0 - 100) 0 - 100

00 75	000d dddd	1	Delay+Reverb Reverb Low Cut	(0 - 17) FLAT, 20.0Hz, 25.0Hz, 31.5Hz, 40.0Hz, 50.0Hz, 63.0Hz, 80.0Hz, 100Hz, 125Hz,
00 76	0000 dddd	1	Delay+Reverb Reverb High Cut	(0 - 14) 630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz, 2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz,
00 77	0000 dddd	1	Delay+Reverb Reverb Density	(0 - 10) 0 - 10
00 78	0ddd dddd	1	Delay+Reverb Reverb Direct Level	(0 - 100) 0 - 100
00 79	0ddd dddd	1	Delay+Reverb Reverb Spring Sens	(0 - 100) 0 - 100
00 7A	00dd dddd	1	EQ Low Gain 100Hz	(0 - 40) -20dB - +20dB
00 7B	00dd dddd	1	EQ High Gain 10kHz	(0 - 40) -20dB - +20dB
00 7C	00dd dddd	1	EQ Level	(0 - 40) -20dB - +20dB
00 7D	000d dddd	1	EQ Low-Mid Freq	(0 - 27) 20.0Hz, 25.0Hz, 31.5Hz, 40.0Hz, 50.0Hz, 63.0Hz, 80.0Hz, 100Hz, 125Hz, 160Hz, 200Hz,
00 7E	0000 0ddd	1	EQ Low-Mid Q	(0 - 5) 0.5, 1, 2, 4, 8, 16
00 7F	00dd dddd	1	EQ Low-Mid Gain	(0 - 40) -20dB - +20dB
01 00	000d dddd	1	EQ High-Mid Freq	(0 - 27) 20.0Hz, 25.0Hz, 31.5Hz, 40.0Hz, 50.0Hz, 63.0Hz, 80.0Hz, 100Hz, 125Hz, 160Hz, 200Hz,
01 01	0000 0ddd	1	EQ High-Mid Q	(0 - 5) 0.5, 1, 2, 4, 8, 16
01 02	00dd dddd	1	EQ High-Mid Gain	(0 - 40) -20dB - +20dB
01 03	000d dddd	1	EQ Low Cut	(0 - 17) FLAT, 20.0Hz, 25.0Hz, 31.5Hz, 40.0Hz, 50.0Hz, 63.0Hz, 80.0Hz, 100Hz, 125Hz,
01 04	0000 dddd	1	EQ High Cut	(0 - 14) 630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz, 2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz,
01 05	0ddd dddd	1	Flanger Rate	(0 - 116) 0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH,
01 06	0ddd dddd	1	Flanger Depth	(0 - 100) 0 - 100
01 07	0ddd dddd	1	Flanger Resonance	(0 - 100) 0 - 100
01 08	0ddd dddd	1	Flanger Manual	(0 - 100) 0 - 100
01 09	0ddd dddd	1	Flanger Separation	(0 - 100) 0 - 100
01 0A	0000 dddd	1	Flanger Low Cut	(0 - 10) FLAT, 55Hz, 110Hz, 165Hz, 200Hz, 280Hz, 340Hz, 400Hz, 500Hz, 630Hz, 800Hz
01 0B	0ddd dddd	1	Flanger Effect Level	(0 - 100) 0 - 100
01 0C	0ddd dddd	1	Flanger Direct Level	(0 - 100) 0 - 100
01 0D	0000 00dd	1	Isolator Band	(0 - 2) LOW, MID, HIGH
01 0E	0ddd dddd	1	Isolator Rate	(0 - 116) 0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH,
01 0F	0ddd dddd	1	Isolator Depth	(0 - 100) 0 - 100
01 10	0ddd dddd	1	Isolator Band Level	(0 - 100) 0 - 100
01 11	0000 00dd	1	Limiter Type	(0 - 2) BOSS LIMITER, RACK 160D, VTG RACK U
01 12	0ddd dddd	1	Limiter Threshold	(0 - 100) 0 - 100
01 13	000d dddd	1	Limiter Ratio	(0 - 17) 1:1, 1.2:1, 1.4:1, 1.6:1, 1.8:1, 2:1, 2.3:1, 2.6:1, 3:1, 3.5:1, 4:1, 5:1, 6:1, 8:1, 10:1, 12:1, 20:1, INF:1
01 14	0ddd dddd	1	Limiter Effect Level	(0 - 100) 0 - 100
01 15	0ddd dddd	1	Limiter Attack	(0 - 100) 0 - 100
01 16	0ddd dddd	1	Limiter Release	(0 - 100) 0 - 100
01 17	0000 dddd	1	LO-FI Bit Depth	(0 - 15) OFF, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5,

					4, 3, 2, 1
01 18	000d dddd	1	LO-FI Sampling Rate	(0 - 31)	OFF, 1/2, 1/3, 1/4, 1/5, 1/6, 1/7, 1/8, 1/9, 1/10, 1/11, 1/12, 1/13, 1/14, 1/15, 1/16, 1/17, 1/18, 1/19, 1/20, 1/21, 1/22, 1/23, 1/24, 1/25, 1/26, 1/27, 1/28, 1/29, 1/30, 1/31, 1/32
01 19	0ddd dddd	1	LO-FI Balance	(0 - 100)	D100:0E - D100:100E - D0:100E
01 1A	000d dddd	1	OD/DS Type	(0 - 20)	MID BOOST, CLEAN BOOST, TREBLE BOOST, CRUNCH, NATU-RAL OD, WARM OD, FAT DS, LEAD DS, METAL DS, OCT FUZZ, BLUES OD, OD-1, T-SCREAM, TURBO OD, DIST, RAT, GUV DS, DST+, METAL ZONE, 60S FUZZ, MUFF FUZZ
01 1B	0ddd dddd	1	OD/DS Drive	(0 - 120)	0 - 120
01 1C	0ddd dddd	1	OD/DS Tone	(0 - 100)	-50 - +50
01 1D	0ddd dddd	1	OD/DS Level	(0 - 100)	0 - 100
01 1E	0ddd dddd	1	OD/DS Bottom	(0 - 100)	-50 - +50
01 1F	0ddd dddd	1	OD/DS Direct Level	(0 - 100)	0 - 100
01 20	0000 000d	1	OD/DS Solo Switch	(0 - 1)	OFF, ON
01 21	0ddd dddd	1	OD/DS Solo Level	(0 - 100)	0 - 100
01 22	0000 000d	1	OD/DS Amp SW	(0 - 1)	OFF, ON
01 23	0000 000d	1	OD/DS NS SW	(0 - 1)	OFF, ON
01 24	0ddd dddd	1	OD/DS NS THRESHOLD	(0 - 100)	0 - 100
01 25	0ddd dddd	1	OD/DS NS RELEASE	(0 - 100)	0 - 100
01 26	0000 000d	1	Pan Type	(0 - 1)	AUTO, MANUAL
01 27	0ddd dddd	1	Pan Wave Shape	(0 - 100)	0 - 100
01 28	0ddd dddd	1	Pan Rate	(0 - 116)	0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH,
01 29	0ddd dddd	1	Pan Depth	(0 - 100)	0 - 100
01 2A	0ddd dddd	1	Pan Effect Level	(0 - 100)	0 - 100
01 2B	0ddd dddd	1	Pan Position	(0 - 100)	L50 - CENTER - R50
01 2C	0000 00dd	1	Phaser Type	(0 - 3)	4STAGE, 8STAGE, 12STAGE, BiPHASE
01 2D	0ddd dddd	1	Phaser Rate	(0 - 116)	0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH,
01 2E	0ddd dddd	1	Phaser Depth	(0 - 100)	0 - 100
01 2F	0ddd dddd	1	Phaser Resonance	(0 - 100)	0 - 100
01 30	0ddd dddd	1	Phaser Manual	(0 - 100)	0 - 100
01 31	0ddd dddd	1	Phaser Step Rate	(0 - 117)	OFF, 0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH, 32THd, 16TH3, 32TH
01 32	0ddd dddd	1	Phaser Effect Level	(0 - 100)	0 - 100
01 33	0ddd dddd	1	Phaser Direct Level	(0 - 100)	0 - 100
01 34	0000 0ddd	1	Reverb Type	(0 - 6)	AMBIENC, ROOM, HALL1, HALL2, PLATE, SPRING, MOD
01 35	0ddd dddd	1	Reverb Time	(0 - 99)	0.1s - 10.0s
01 36	0000 000a	3	Reverb Pre Delay	(0 - 500)	0ms - 500ms
	0000 bbbb				
	0000 cccc				
01 39	0ddd dddd	1	Reverb Effect Level	(0 - 100)	0 - 100
01 3A	000d dddd	1	Reverb Low Cut	(0 - 17)	FLAT, 20.0Hz, 25.0Hz, 31.5Hz, 40.0Hz, 50.0Hz, 63.0Hz, 80.0Hz, 100Hz, 125Hz,
01 3B	0000 dddd	1	Reverb High Cut	(0 - 14)	630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz,

				2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz,
01 3C	0000 dddd	1	Reverb Density	(0 - 10) 0 - 10
01 3D	0ddd dddd	1	Reverb Direct Level	(0 - 100) 0 - 100
01 3E	0ddd dddd	1	Reverb Spring Sens	(0 - 100) 0 - 100
01 3F	0000 000d	1	Rotary Speed Select	(0 - 1) SLOW, FAST
01 40	0ddd dddd	1	Rotary Rate Slow	(0 - 116) 0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH,
01 41	0ddd dddd	1	Rotary Rate Fast	(0 - 116) 0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH,
01 42	0ddd dddd	1	Rotary Depth	(0 - 100) 0 - 100
01 43	0ddd dddd	1	Rotary Rise Time	(0 - 100) 0 - 100
01 44	0ddd dddd	1	Rotary Fall Time	(0 - 100) 0 - 100
01 45	0ddd dddd	1	Rotary Effect Level	(0 - 100) 0 - 100
01 46	000d dddd	1	Slicer Pattern	(0 - 19) P01 - P20
01 47	0ddd dddd	1	Slicer Rate	(0 - 116) 0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH,
01 48	0ddd dddd	1	Slicer Depth	(0 - 120) 0 - 120
01 49	0ddd dddd	1	Slow Gear Sens	(0 - 100) 0 - 100
01 4A	0ddd dddd	1	Slow Gear Rise Time	(0 - 100) 0 - 100
01 4B	0ddd dddd	1	Slow Gear Effect Level	(0 - 100) 0 - 100
01 4C	0000 000d	1	T.Wah Mode	(0 - 1) LPF, BPF
01 4D	0000 000d	1	T.Wah Polar	(0 - 1) DOWN, UP
01 4E	0ddd dddd	1	T.Wah Sens	(0 - 100) 0 - 100
01 4F	0ddd dddd	1	T.Wah Freq	(0 - 100) 0 - 100
01 50	0ddd dddd	1	T.Wah Peak	(0 - 100) 0 - 100
01 51	0ddd dddd	1	T.Wah Effect Level	(0 - 100) 0 - 100
01 52	0ddd dddd	1	T.Wah Direct Level	(0 - 100) 0 - 100
01 53	0ddd dddd	1	Tremolo Wave Shape	(0 - 100) 0 - 100
01 54	0ddd dddd	1	Tremolo Rate	(0 - 116) 0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH,
01 55	0ddd dddd	1	Tremolo Depth	(0 - 100) 0 - 100
01 56	0ddd dddd	1	Tremolo Effect Level	(0 - 100) 0 - 100
01 57	0ddd dddd	1	UNI-V Rate	(0 - 116) 0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH,
01 58	0ddd dddd	1	UNI-V Depth	(0 - 100) 0 - 100
01 59	0ddd dddd	1	UNI-V Effect Level	(0 - 100) 0 - 100
01 5A	0000 0000	8	Reserved	(0 - 0) 0 - 0

* SYSTEMP Common Parameters Offset Address

Offset Address	Description	ByteSize		
00 00	0000 000d	1	SY-300 OFF/ON	(0 - 1) OFF, ON
00 01	0000 00dd	1	Usb Audio Routing	(0 - 3) STANDARD, MIX, RE-SYNTH, DIRECT OFF

* SYSTEMP BLENDER Parameters Offset Address

Offset Address	Description	ByteSize		
00 00	0000 000a	3	Blender OSC 1	(0 - 506)
				0 - 506
	0000 bbbb			
	0000 cccc			
00 03	0000 000a	3	Blender OSC 2	(0 - 506)
				0 - 506
	0000 bbbb			
	0000 cccc			
00 06	0000 000a	3	Blender OSC 3	(0 - 506)
				0 - 506
	0000 bbbb			
	0000 cccc			
00 09	0000 aaaa	2	Blender Chain	(0 - 168)
				0 - 168
	0000 bbbb			
00 0B	0000 00dd	1	Blender Auto Speed	(0 - 2)
				SLOW, MID, FAST
00 0C	0ddd dddd	1	Blender History	(0 - 99)
				CUR, -1 - -99
00 0D	0000 000d	1	Blender Auto Change	(0 - 1)
				AUTO, STOP

* SYSTEMP ASSIGNPRESET Parameters Offset Address

Offset Address	Description	ByteSize		
00 00	0000 dddd	1	Patch CTL1 Assign Preset Number 1	(0 - 11)
				OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW,
				FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
				OSC2 HOLD, OSC3 HOLD, OSC ALL HOLD,
				BPM TAP
00 01	0000 dddd	1	Patch CTL1 Assign Preset Number 2	(0 - 11)
				OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW,
				FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 02	0000 dddd	1	Patch CTL1 Assign Preset Number 3	(0 - 11)
				OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW,
				FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 03	0000 dddd	1	Patch CTL1 Assign Preset Number 4	(0 - 11)
				OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW,
				FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 04	0000 dddd	1	Patch CTL1 Assign Preset Number 5	(0 - 11)
				OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW,
				FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 05	0000 dddd	1	Patch CTL1 Assign Preset Number 6	(0 - 11)
				OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW,
				FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 06	0000 dddd	1	Patch CTL2 Assign Preset Number 1	(0 - 11)
				OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW,
				FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 07	0000 dddd	1	Patch CTL2 Assign Preset Number 2	(0 - 11)
				OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW,
				FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 08	0000 dddd	1	Patch CTL2 Assign Preset Number 3	(0 - 11)
				OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW,
				FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 09	0000 dddd	1	Patch CTL2 Assign Preset Number 4	(0 - 11)
				OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW,
				FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 0A	0000 dddd	1	Patch CTL2 Assign Preset Number 5	(0 - 11)
				OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW,
				FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 0B	0000 dddd	1	Patch CTL2 Assign Preset Number 6	(0 - 11)
				OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW,
				FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 0C	0000 dddd	1	Patch CTL3 Assign Preset Number 1	(0 - 11)
				OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW,
				FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 0D	0000 dddd	1	Patch CTL3 Assign Preset Number 2	(0 - 11)
				OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW,
				FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 0E	0000 dddd	1	Patch CTL3 Assign Preset Number 3	(0 - 11)

				OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 0F	0000 dddd	1	Patch CTL3 Assign Preset Number 4	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 10	0000 dddd	1	Patch CTL3 Assign Preset Number 5	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 11	0000 dddd	1	Patch CTL3 Assign Preset Number 6	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 12	0000 dddd	1	Patch CTL4 Assign Preset Number 1	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 13	0000 dddd	1	Patch CTL4 Assign Preset Number 2	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 14	0000 dddd	1	Patch CTL4 Assign Preset Number 3	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 15	0000 dddd	1	Patch CTL4 Assign Preset Number 4	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 16	0000 dddd	1	Patch CTL4 Assign Preset Number 5	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 17	0000 dddd	1	Patch CTL4 Assign Preset Number 6	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 18	0000 dddd	1	Patch CTL5 Assign Preset Number 1	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 19	0000 dddd	1	Patch CTL5 Assign Preset Number 2	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 1A	0000 dddd	1	Patch CTL5 Assign Preset Number 3	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 1B	0000 dddd	1	Patch CTL5 Assign Preset Number 4	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 1C	0000 dddd	1	Patch CTL5 Assign Preset Number 5	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 1D	0000 dddd	1	Patch CTL5 Assign Preset Number 6	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 1E	0000 dddd	1	System CTL1 Assign Preset Number 1	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 1F	0000 dddd	1	System CTL1 Assign Preset Number 2	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 20	0000 dddd	1	System CTL1 Assign Preset Number 3	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 21	0000 dddd	1	System CTL1 Assign Preset Number 4	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 22	0000 dddd	1	System CTL1 Assign Preset Number 5	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 23	0000 dddd	1	System CTL1 Assign Preset Number 6	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 24	0000 dddd	1	System CTL2 Assign Preset Number 1	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW,

				FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 25	0000 dddd	1	System CTL2 Assign Preset Number 2	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 26	0000 dddd	1	System CTL2 Assign Preset Number 3	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 27	0000 dddd	1	System CTL2 Assign Preset Number 4	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 28	0000 dddd	1	System CTL2 Assign Preset Number 5	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 29	0000 dddd	1	System CTL2 Assign Preset Number 6	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 2A	0000 dddd	1	System CTL3 Assign Preset Number 1	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 2B	0000 dddd	1	System CTL3 Assign Preset Number 2	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 2C	0000 dddd	1	System CTL3 Assign Preset Number 3	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 2D	0000 dddd	1	System CTL3 Assign Preset Number 4	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 2E	0000 dddd	1	System CTL3 Assign Preset Number 5	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 2F	0000 dddd	1	System CTL3 Assign Preset Number 6	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 30	0000 dddd	1	System CTL4 Assign Preset Number 1	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 31	0000 dddd	1	System CTL4 Assign Preset Number 2	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 32	0000 dddd	1	System CTL4 Assign Preset Number 3	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 33	0000 dddd	1	System CTL4 Assign Preset Number 4	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 34	0000 dddd	1	System CTL4 Assign Preset Number 5	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 35	0000 dddd	1	System CTL4 Assign Preset Number 6	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 36	0000 dddd	1	System CTL5 Assign Preset Number 1	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 37	0000 dddd	1	System CTL5 Assign Preset Number 2	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 38	0000 dddd	1	System CTL5 Assign Preset Number 3	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 39	0000 dddd	1	System CTL5 Assign Preset Number 4	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,
00 3A	0000 dddd	1	System CTL5 Assign Preset Number 5	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,

00 3B	0000 dddd	1	System CTL5 Assign Preset Number 6	(0 - 11) OSC1 SW, OSC2 SW, OSC3 SW, FX1 SW, FX2 SW, FX3 SW, FX4 SW, OSC1 HOLD,

Assign Target List

CATEGORY	VALUE	PARAMETER NAME
OSC1 WAVE		
	0	OSC OFF/ON
	1	WAVEFORM
	2	PULSE WIDTH
	3	PWM ENV ATTACK
	4	PWM ENV DEPTH
	5	DETUNE
	6	SHARPNESS
OSC1 PITCH		
	7	PITCH
	8	FINE
	9	PITCH ENV ATTACK
	10	PITCH ENV DEPTH
	11	PITCH BEND DEPTH
	12	PITCH BEND CTL
OSC1 FILTER		
	13	FILTER TYPE
	14	FILTER SLOPE
	15	FILTER CUTOFF
	16	FILTER RESO
	17	FILTER ENV ATTACK
	18	FILTER ENV DEPTH
OSC1 AMP		
	19	AMP ENV ATTACK
	20	LEVEL
	21	PAN
OSC1 LFO LFO1		
	22	LFO1 OFF/ON
	23	LFO1 WAVEFORM
	24	LFO1 RATE
	25	LFO1 PITCH DEPTH
	26	LFO1 FILTER DEPTH
	27	LFO1 AMP DEPTH
	28	LFO1 PWM DEPTH
	29	LFO1 DYNAMIC DEPTH
	30	LFO1 FADE TIME
OSC1 LFO LFO2		
	31	LFO2 OFF/ON
	32	LFO2 WAVEFORM
	33	LFO2 RATE
	34	LFO2 PITCH DEPTH
	35	LFO2 FILTER DEPTH
	36	LFO2 AMP DEPTH
	37	LFO2 PWM DEPTH
	38	LFO2 DYNAMIC DEPTH
	39	LFO2 FADE TIME
OSC1 SEQ		
	40	OFF/ON
	41	RATE
	42	DEPTH
	43	LOOP LENGTH
	44	STEP1
	45	STEP2
	46	STEP3
	47	STEP4
	48	STEP5
	49	STEP6
	50	STEP7
	51	STEP8
	52	STEP9
	53	STEP10
	54	STEP11
	55	STEP12
	56	STEP13
	57	STEP14
	58	STEP15
	59	STEP16
OSC1 LAYER		
	60	L.FADE
	61	LOWER
	62	UPPER
	63	U.FADE
OSC2 WAVE		
	64	OSC OFF/ON
	65	WAVEFORM
	68	PULSE WIDTH
	69	PWM ENV ATTACK
	70	PWM ENV DEPTH
	71	DETUNE

72 : SHARPNESS
66 : SYNC
67 : RING

OSC2 PITCH

73 : PITCH
74 : FINE
75 : PITCH ENV ATTACK
76 : PITCH ENV DEPTH
77 : PITCH BEND DEPTH
78 : PITCH BEND CTL

OSC2 FILTER

79 : FILTER TYPE
80 : FILTER SLOPE
81 : FILTER CUTOFF
82 : FILTER RESO
83 : FILTER ENV ATTACK
84 : FILTER ENV DEPTH

OSC2 AMP

85 : AMP ENV ATTACK
86 : LEVEL
87 : PAN

OSC2 LFO LFO1

88 : LFO1 OFF/ON
89 : LFO1 WAVEFORM
90 : LFO1 RATE
91 : LFO1 PITCH DEPTH
92 : LFO1 FILTER DEPTH
93 : LFO1 AMP DEPTH
94 : LFO1 PWM DEPTH
95 : LFO1 DYNAMIC DEPTH
96 : LFO1 FADE TIME

OSC2 LFO LFO2

97 : LFO2 OFF/ON
98 : LFO2 WAVEFORM
99 : LFO2 RATE
100 : LFO2 PITCH DEPTH
101 : LFO2 FILTER DEPTH
102 : LFO2 AMP DEPTH
103 : LFO2 PWM DEPTH
104 : LFO2 DYNAMIC DEPTH
105 : LFO2 FADE TIME

OSC2 SEQ

106 : OFF/ON
107 : RATE
108 : DEPTH
109 : LOOP LENGTH
110 : STEP1
111 : STEP2
112 : STEP3
113 : STEP4
114 : STEP5
115 : STEP6
116 : STEP7
117 : STEP8
118 : STEP9
119 : STEP10
120 : STEP11
121 : STEP12
122 : STEP13
123 : STEP14
124 : STEP15
125 : STEP16
126 : LINK SW

OSC2 LAYER

127 : L.FADE
128 : LOWER
129 : UPPER
130 : U.FADE

OSC3 WAVE

131 : OSC OFF/ON
132 : WAVEFORM
135 : PULSE WIDTH
136 : PWM ENV ATTACK
137 : PWM ENV DEPTH
138 : DETUNE
139 : SHARPNESS
133 : SYNC
134 : RING

OSC3 PITCH

140 : PITCH
141 : FINE
142 : PITCH ENV ATTACK
143 : PITCH ENV DEPTH
144 : PITCH BEND DEPTH
145 : PITCH BEND CTL

OSC3 FILTER

146 : FILTER TYPE
147 : FILTER SLOPE
148 : FILTER CUTOFF

149 : FILTER RESO
150 : FILTER ENV ATTACK
151 : FILTER ENV DEPTH

OSC3 AMP

152 : AMP ENV ATTACK
153 : LEVEL
154 : PAN

OSC3 LFO LFO1

155 : LFO1 OFF/ON
156 : LFO1 WAVEFORM
157 : LFO1 RATE
158 : LFO1 PITCH DEPTH
159 : LFO1 FILTER DEPTH
160 : LFO1 AMP DEPTH
161 : LFO1 PWM DEPTH
162 : LFO1 DYNAMIC DEPTH
163 : LFO1 FADE TIME

OSC3 LFO LFO2

164 : LFO2 OFF/ON
165 : LFO2 WAVEFORM
166 : LFO2 RATE
167 : LFO2 PITCH DEPTH
168 : LFO2 FILTER DEPTH
169 : LFO2 AMP DEPTH
170 : LFO2 PWM DEPTH
171 : LFO2 DYNAMIC DEPTH
172 : LFO2 FADE TIME

OSC3 SEQ

173 : OFF/ON
174 : RATE
175 : DEPTH
176 : LOOP LENGTH
177 : STEP1
178 : STEP2
179 : STEP3
180 : STEP4
181 : STEP5
182 : STEP6
183 : STEP7
184 : STEP8
185 : STEP9
186 : STEP10
187 : STEP11
188 : STEP12
189 : STEP13
190 : STEP14
191 : STEP15
192 : STEP16
193 : LINK SW

OSC3 LAYER

194 : L.FADE
195 : LOWER
196 : UPPER
197 : U.FADE

FX1

198 : FX OFF/ON
199 : FX TYPE

FX1 CHORUS

200 : MODE
201 : RATE
202 : DEPTH
203 : EFFECT LEVEL
204 : PRE DELAY
205 : LOW CUT
206 : HIGH CUT
207 : DIRECT LEVEL

FX1 CHO+DLY CHORUS

208 : CHORUS MODE
209 : CHORUS RATE
210 : CHORUS DEPTH
211 : CHORUS EFFECT LEVEL
212 : CHORUS PRE DELAY
213 : CHORUS LOW CUT
214 : CHORUS HIGH CUT
215 : CHORUS DIRECT LEVEL

FX1 CHO+DLY DELAY

216 : DELAY TYPE
217 : DELAY TIME
218 : DELAY F.BACK
219 : DELAY EFFECT LEVEL
220 : DELAY HIGH CUT
221 : DELAY DIRECT LEVEL
222 : DELAY TAP TIME
223 : DELAY D1: TIME
224 : DELAY D1: F.BACK
225 : DELAY D1: HI CUT
226 : DELAY D1: LEVEL
227 : DELAY D2: TIME
228 : DELAY D2: F.BACK

229 : DELAY D2: HI CUT
230 : DELAY D2: LEVEL
231 : DELAY MOD RATE
232 : DELAY MOD DEPTH

FX1 CHO+REV CHORUS

233 : CHORUS MODE
234 : CHORUS RATE
235 : CHORUS DEPTH
236 : CHORUS PRE DELAY
237 : CHORUS LOW CUT
238 : CHORUS HIGH CUT
239 : CHORUS EFFECT LEVEL
240 : CHORUS DIRECT LEVEL

FX1 CHO+REV REVERB

241 : REVERB TYPE
242 : REVERB TIME
243 : REVERB PRE DELAY
244 : REVERB EFFECT LEVEL
245 : REVERB LOW CUT
246 : REVERB HIGH CUT
247 : REVERB DENSITY
248 : REVERB DIRECT LEVEL
249 : REVERB SPRING SENS

FX1 COMP

250 : TYPE
251 : SUSTAIN
252 : ATTACK
253 : EFFECT LEVEL
254 : TONE

FX1 DELAY

255 : TYPE
256 : TIME
257 : F.BACK
258 : EFFECT LEVEL
259 : HIGH CUT
260 : DIRECT LEVEL
261 : TAP TIME
262 : D1: TIME
263 : D1: F.BACK
264 : D1: HI CUT
265 : D1: LEVEL
266 : D2: TIME
267 : D2: F.BACK
268 : D2: HI CUT
269 : D2: LEVEL
270 : MOD RATE
271 : MOD DEPTH

FX1 DLY+REV DELAY

272 : DELAY TYPE
273 : DELAY TIME
274 : DELAY F.BACK
275 : DELAY EFFECT LEVEL
276 : DELAY HIGH CUT
277 : DELAY DIRECT LEVEL
278 : DELAY TAP TIME
279 : DELAY D1: TIME
280 : DELAY D1: F.BACK
281 : DELAY D1: HI CUT
282 : DELAY D1: LEVEL
283 : DELAY D2: TIME
284 : DELAY D2: F.BACK
285 : DELAY D2: HI CUT
286 : DELAY D2: LEVEL
287 : DELAY MOD RATE
288 : DELAY MOD DEPTH

FX1 DLY+REV REVERB

289 : REVERB TYPE
290 : REVERB TIME
291 : REVERB PRE DELAY
292 : REVERB EFFECT LEVEL
293 : REVERB LOW CUT
294 : REVERB HIGH CUT
295 : REVERB DENSITY
296 : REVERB DIRECT LEVEL
297 : REVERB SPRING SENS

FX1 EQ

298 : L.GAIN 100Hz
299 : H.GAIN 10kHz
300 : LEVEL
301 : LO-MID FREQ
302 : LO-MID Q
303 : LO-MID GAIN
304 : HI-MID FREQ
305 : HI-MID Q
306 : HI-MID GAIN
307 : LOW CUT
308 : HIGH CUT

FX1 FLANGR

309 : RATE

310 : DEPTH
311 : RESO
312 : MANUAL
313 : SEPARATION
314 : LOW CUT
315 : EFFECT LEVEL
316 : DIRECT LEVEL

FX1 ISOLATOR

317 : BAND
318 : RATE
319 : DEPTH
320 : BAND LEVEL

FX1 LIMITER

321 : TYPE
322 : THRESH
323 : RATIO
324 : EFFECT LEVEL
325 : ATTACK
326 : RELEASE

FX1 LO-FI

327 : BIT DEPTH
328 : SAMPLE RATE
329 : BALANCE

FX1 OD/DS

330 : TYPE
331 : DRIVE
332 : TONE
333 : LEVEL
334 : BOTTOM
335 : DIRECT LEVEL
336 : SOLO OFF/ON
337 : SOLO LEVEL
338 : AMP OFF/ON
339 : NS OFF/ON
340 : NS THRESH
341 : NS RELEASE

FX1 PAN

342 : TYPE
343 : WAVE SHAPE
344 : RATE
345 : DEPTH
346 : EFFECT LEVEL
347 : POS

FX1 PHASER

348 : TYPE
349 : RATE
350 : DEPTH
351 : RESO
352 : MANUAL
353 : STEP RATE
354 : EFFECT LEVEL
355 : DIRECT LEVEL

FX1 REVERB

356 : TYPE
357 : TIME
358 : PRE DELAY
359 : EFFECT LEVEL
360 : LOW CUT
361 : HIGH CUT
362 : DENSITY
363 : DIRECT LEVEL
364 : SPRING SENS

FX1 ROTARY

365 : SPEED SELECT
366 : RATE SLOW
367 : RATE FAST
368 : DEPTH
369 : RISE TIME
370 : FALL TIME
371 : EFFECT LEVEL

FX1 SLICER

372 : PATTERN
373 : RATE
374 : DEPTH

FX1 SLOWGEAR

375 : SENS
376 : RISE TIME
377 : EFFECT LEVEL

FX1 T.WAH

378 : MODE
379 : POLAR
380 : SENS
381 : FREQ
382 : PEAK
383 : EFFECT LEVEL
384 : DIRECT LEVEL

FX1 TREMOLO

385 : WAVE SHAPE
386 : RATE

387 : DEPTH
388 : EFFECT LEVEL

FX1 UNI-V

389 : RATE
390 : DEPTH
391 : EFFECT LEVEL

FX2

392 : FX OFF/ON
393 : FX TYPE

FX2 CHORUS

394 : MODE
395 : RATE
396 : DEPTH
397 : EFFECT LEVEL
398 : PRE DELAY
399 : LOW CUT
400 : HIGH CUT
401 : DIRECT LEVEL

FX2 CHO+DLY CHORUS

402 : CHORUS MODE
403 : CHORUS RATE
404 : CHORUS DEPTH
405 : CHORUS EFFECT LEVEL
406 : CHORUS PRE DELAY
407 : CHORUS LOW CUT
408 : CHORUS HIGH CUT
409 : CHORUS DIRECT LEVEL

FX2 CHO+DLY DELAY

410 : DELAY TYPE
411 : DELAY TIME
412 : DELAY F.BACK
413 : DELAY EFFECT LEVEL
414 : DELAY HIGH CUT
415 : DELAY DIRECT LEVEL
416 : DELAY TAP TIME
417 : DELAY D1: TIME
418 : DELAY D1: F.BACK
419 : DELAY D1: HI CUT
420 : DELAY D1: LEVEL
421 : DELAY D2: TIME
422 : DELAY D2: F.BACK
423 : DELAY D2: HI CUT
424 : DELAY D2: LEVEL
425 : DELAY MOD RATE
426 : DELAY MOD DEPTH

FX2 CHO+REV CHORUS

427 : CHORUS MODE
428 : CHORUS RATE
429 : CHORUS DEPTH
430 : CHORUS PRE DELAY
431 : CHORUS LOW CUT
432 : CHORUS HIGH CUT
433 : CHORUS EFFECT LEVEL
434 : CHORUS DIRECT LEVEL

FX2 CHO+REV REVERB

435 : REVERB TYPE
436 : REVERB TIME
437 : REVERB PRE DELAY
438 : REVERB EFFECT LEVEL
439 : REVERB LOW CUT
440 : REVERB HIGH CUT
441 : REVERB DENSITY
442 : REVERB DIRECT LEVEL
443 : REVERB SPRING SENS

FX2 COMP

444 : TYPE
445 : SUSTAIN
446 : ATTACK
447 : EFFECT LEVEL
448 : TONE

FX2 DELAY

449 : TYPE
450 : TIME
451 : F.BACK
452 : EFFECT LEVEL
453 : HIGH CUT
454 : DIRECT LEVEL
455 : TAP TIME
456 : D1: TIME
457 : D1: F.BACK
458 : D1: HI CUT
459 : D1: LEVEL
460 : D2: TIME
461 : D2: F.BACK
462 : D2: HI CUT
463 : D2: LEVEL
464 : MOD RATE
465 : MOD DEPTH

FX2 DLY+REV DELAY

466 : DELAY TYPE
467 : DELAY TIME
468 : DELAY F.BACK
469 : DELAY EFFECT LEVEL
470 : DELAY HIGH CUT
471 : DELAY DIRECT LEVEL
472 : DELAY TAP TIME
473 : DELAY D1: TIME
474 : DELAY D1: F.BACK
475 : DELAY D1: HI CUT
476 : DELAY D1: LEVEL
477 : DELAY D2: TIME
478 : DELAY D2: F.BACK
479 : DELAY D2: HI CUT
480 : DELAY D2: LEVEL
481 : DELAY MOD RATE
482 : DELAY MOD DEPTH

FX2 DLY+REV REVERB

483 : REVERB TYPE
484 : REVERB TIME
485 : REVERB PRE DELAY
486 : REVERB EFFECT LEVEL
487 : REVERB LOW CUT
488 : REVERB HIGH CUT
489 : REVERB DENSITY
490 : REVERB DIRECT LEVEL
491 : REVERB SPRING SENS

FX2 EQ

492 : L.GAIN 100Hz
493 : H.GAIN 10kHz
494 : LEVEL
495 : LO-MID FREQ
496 : LO-MID Q
497 : LO-MID GAIN
498 : HI-MID FREQ
499 : HI-MID Q
500 : HI-MID GAIN
501 : LOW CUT
502 : HIGH CUT

FX2 FLANGR

503 : RATE
504 : DEPTH
505 : RESO
506 : MANUAL
507 : SEPARATION
508 : LOW CUT
509 : EFFECT LEVEL
510 : DIRECT LEVEL

FX2 ISOLATOR

511 : BAND
512 : RATE
513 : DEPTH
514 : BAND LEVEL

FX2 LIMITER

515 : TYPE
516 : THRESH
517 : RATIO
518 : EFFECT LEVEL
519 : ATTACK
520 : RELEASE

FX2 LO-FI

521 : BIT DEPTH
522 : SAMPLE RATE
523 : BALANCE

FX2 OD/DS

524 : TYPE
525 : DRIVE
526 : TONE
527 : LEVEL
528 : BOTTOM
529 : DIRECT LEVEL
530 : SOLO OFF/ON
531 : SOLO LEVEL
532 : AMP OFF/ON
533 : NS OFF/ON
534 : NS THRESH
535 : NS RELEASE

FX2 PAN

536 : TYPE
537 : WAVE SHAPE
538 : RATE
539 : DEPTH
540 : EFFECT LEVEL
541 : POS

FX2 PHASER

542 : TYPE
543 : RATE
544 : DEPTH
545 : RESO

546 : MANUAL
547 : STEP RATE
548 : EFFECT LEVEL
549 : DIRECT LEVEL

FX2 REVERB

550 : TYPE
551 : TIME
552 : PRE DELAY
553 : EFFECT LEVEL
554 : LOW CUT
555 : HIGH CUT
556 : DENSITY
557 : DIRECT LEVEL
558 : SPRING SENS

FX2 ROTARY

559 : SPEED SELECT
560 : RATE SLOW
561 : RATE FAST
562 : DEPTH
563 : RISE TIME
564 : FALL TIME
565 : EFFECT LEVEL

FX2 SLICER

566 : PATTERN
567 : RATE
568 : DEPTH

FX2 SLOWGEAR

569 : SENS
570 : RISE TIME
571 : EFFECT LEVEL

FX2 T.WAH

572 : MODE
573 : POLAR
574 : SENS
575 : FREQ
576 : PEAK
577 : EFFECT LEVEL
578 : DIRECT LEVEL

FX2 TREMOLO

579 : WAVE SHAPE
580 : RATE
581 : DEPTH
582 : EFFECT LEVEL

FX2 UNI-V

583 : RATE
584 : DEPTH
585 : EFFECT LEVEL

FX3

586 : FX OFF/ON
587 : FX TYPE

FX3 CHORUS

588 : MODE
589 : RATE
590 : DEPTH
591 : EFFECT LEVEL
592 : PRE DELAY
593 : LOW CUT
594 : HIGH CUT
595 : DIRECT LEVEL

FX3 CHO+DLY CHORUS

596 : CHORUS MODE
597 : CHORUS RATE
598 : CHORUS DEPTH
599 : CHORUS EFFECT LEVEL
600 : CHORUS PRE DELAY
601 : CHORUS LOW CUT
602 : CHORUS HIGH CUT
603 : CHORUS DIRECT LEVEL

FX3 CHO+DLY DELAY

604 : DELAY TYPE
605 : DELAY TIME
606 : DELAY F.BACK
607 : DELAY EFFECT LEVEL
608 : DELAY HIGH CUT
609 : DELAY DIRECT LEVEL
610 : DELAY TAP TIME
611 : DELAY D1: TIME
612 : DELAY D1: F.BACK
613 : DELAY D1: HI CUT
614 : DELAY D1: LEVEL
615 : DELAY D2: TIME
616 : DELAY D2: F.BACK
617 : DELAY D2: HI CUT
618 : DELAY D2: LEVEL
619 : DELAY MOD RATE
620 : DELAY MOD DEPTH

FX3 CHO+REV CHORUS

621 : CHORUS MODE
622 : CHORUS RATE

623 : CHORUS DEPTH
624 : CHORUS PRE DELAY
625 : CHORUS LOW CUT
626 : CHORUS HIGH CUT
627 : CHORUS EFFECT LEVEL
628 : CHORUS DIRECT LEVEL

FX3 CHO+REV REVERB

629 : REVERB TYPE
630 : REVERB TIME
631 : REVERB PRE DELAY
632 : REVERB EFFECT LEVEL
633 : REVERB LOW CUT
634 : REVERB HIGH CUT
635 : REVERB DENSITY
636 : REVERB DIRECT LEVEL
637 : REVERB SPRING SENS

FX3 COMP

638 : TYPE
639 : SUSTAIN
640 : ATTACK
641 : EFFECT LEVEL
642 : TONE

FX3 DELAY

643 : TYPE
644 : TIME
645 : F.BACK
646 : EFFECT LEVEL
647 : HIGH CUT
648 : DIRECT LEVEL
649 : TAP TIME
650 : D1: TIME
651 : D1: F.BACK
652 : D1: HI CUT
653 : D1: LEVEL
654 : D2: TIME
655 : D2: F.BACK
656 : D2: HI CUT
657 : D2: LEVEL
658 : MOD RATE
659 : MOD DEPTH

FX3 DLY+REV DELAY

660 : DELAY TYPE
661 : DELAY TIME
662 : DELAY F.BACK
663 : DELAY EFFECT LEVEL
664 : DELAY HIGH CUT
665 : DELAY DIRECT LEVEL
666 : DELAY TAP TIME
667 : DELAY D1: TIME
668 : DELAY D1: F.BACK
669 : DELAY D1: HI CUT
670 : DELAY D1: LEVEL
671 : DELAY D2: TIME
672 : DELAY D2: F.BACK
673 : DELAY D2: HI CUT
674 : DELAY D2: LEVEL
675 : DELAY MOD RATE
676 : DELAY MOD DEPTH

FX3 DLY+REV REVERB

677 : REVERB TYPE
678 : REVERB TIME
679 : REVERB PRE DELAY
680 : REVERB EFFECT LEVEL
681 : REVERB LOW CUT
682 : REVERB HIGH CUT
683 : REVERB DENSITY
684 : REVERB DIRECT LEVEL
685 : REVERB SPRING SENS

FX3 EQ

686 : L.GAIN 100Hz
687 : H.GAIN 10kHz
688 : LEVEL
689 : LO-MID FREQ
690 : LO-MID Q
691 : LO-MID GAIN
692 : HI-MID FREQ
693 : HI-MID Q
694 : HI-MID GAIN
695 : LOW CUT
696 : HIGH CUT

FX3 FLANGR

697 : RATE
698 : DEPTH
699 : RESO
700 : MANUAL
701 : SEPARATION
702 : LOW CUT
703 : EFFECT LEVEL
704 : DIRECT LEVEL

FX3 ISOLATOR
705 : BAND
706 : RATE
707 : DEPTH
708 : BAND LEVEL
FX3 LIMITER
709 : TYPE
710 : THRESH
711 : RATIO
712 : EFFECT LEVEL
713 : ATTACK
714 : RELEASE
FX3 LO-FI
715 : BIT DEPTH
716 : SAMPLE RATE
717 : BALANCE
FX3 OD/DS
718 : TYPE
719 : DRIVE
720 : TONE
721 : LEVEL
722 : BOTTOM
723 : DIRECT LEVEL
724 : SOLO OFF/ON
725 : SOLO LEVEL
726 : AMP OFF/ON
727 : NS OFF/ON
728 : NS THRESH
729 : NS RELEASE
FX3 PAN
730 : TYPE
731 : WAVE SHAPE
732 : RATE
733 : DEPTH
734 : EFFECT LEVEL
735 : POS
FX3 PHASER
736 : TYPE
737 : RATE
738 : DEPTH
739 : RESO
740 : MANUAL
741 : STEP RATE
742 : EFFECT LEVEL
743 : DIRECT LEVEL
FX3 REVERB
744 : TYPE
745 : TIME
746 : PRE DELAY
747 : EFFECT LEVEL
748 : LOW CUT
749 : HIGH CUT
750 : DENSITY
751 : DIRECT LEVEL
752 : SPRING SENS
FX3 ROTARY
753 : SPEED SELECT
754 : RATE SLOW
755 : RATE FAST
756 : DEPTH
757 : RISE TIME
758 : FALL TIME
759 : EFFECT LEVEL
FX3 SLICER
760 : PATTERN
761 : RATE
762 : DEPTH
FX3 SLOWGEAR
763 : SENS
764 : RISE TIME
765 : EFFECT LEVEL
FX3 T.WAH
766 : MODE
767 : POLAR
768 : SENS
769 : FREQ
770 : PEAK
771 : EFFECT LEVEL
772 : DIRECT LEVEL
FX3 TREMOLO
773 : WAVE SHAPE
774 : RATE
775 : DEPTH
776 : EFFECT LEVEL
FX3 UNI-V
777 : RATE
778 : DEPTH
779 : EFFECT LEVEL
FX4

780 : FX OFF/ON
781 : FX TYPE

FX4 CHORUS

782 : MODE
783 : RATE
784 : DEPTH
785 : EFFECT LEVEL
786 : PRE DELAY
787 : LOW CUT
788 : HIGH CUT
789 : DIRECT LEVEL

FX4 CHO+DLY CHORUS

790 : CHORUS MODE
791 : CHORUS RATE
792 : CHORUS DEPTH
793 : CHORUS EFFECT LEVEL
794 : CHORUS PRE DELAY
795 : CHORUS LOW CUT
796 : CHORUS HIGH CUT
797 : CHORUS DIRECT LEVEL

FX4 CHO+DLY DELAY

798 : DELAY TYPE
799 : DELAY TIME
800 : DELAY F.BACK
801 : DELAY EFFECT LEVEL
802 : DELAY HIGH CUT
803 : DELAY DIRECT LEVEL
804 : DELAY TAP TIME
805 : DELAY D1: TIME
806 : DELAY D1: F.BACK
807 : DELAY D1: HI CUT
808 : DELAY D1: LEVEL
809 : DELAY D2: TIME
810 : DELAY D2: F.BACK
811 : DELAY D2: HI CUT
812 : DELAY D2: LEVEL
813 : DELAY MOD RATE
814 : DELAY MOD DEPTH

FX4 CHO+REV CHORUS

815 : CHORUS MODE
816 : CHORUS RATE
817 : CHORUS DEPTH
818 : CHORUS PRE DELAY
819 : CHORUS LOW CUT
820 : CHORUS HIGH CUT
821 : CHORUS EFFECT LEVEL
822 : CHORUS DIRECT LEVEL

FX4 CHO+REV REVERB

823 : REVERB TYPE
824 : REVERB TIME
825 : REVERB PRE DELAY
826 : REVERB EFFECT LEVEL
827 : REVERB LOW CUT
828 : REVERB HIGH CUT
829 : REVERB DENSITY
830 : REVERB DIRECT LEVEL
831 : REVERB SPRING SENS

FX4 COMP

832 : TYPE
833 : SUSTAIN
834 : ATTACK
835 : EFFECT LEVEL
836 : TONE

FX4 DELAY

837 : TYPE
838 : TIME
839 : F.BACK
840 : EFFECT LEVEL
841 : HIGH CUT
842 : DIRECT LEVEL
843 : TAP TIME
844 : D1: TIME
845 : D1: F.BACK
846 : D1: HI CUT
847 : D1: LEVEL
848 : D2: TIME
849 : D2: F.BACK
850 : D2: HI CUT
851 : D2: LEVEL
852 : MOD RATE
853 : MOD DEPTH

FX4 DLY+REV DELAY

854 : DELAY TYPE
855 : DELAY TIME
856 : DELAY F.BACK
857 : DELAY EFFECT LEVEL
858 : DELAY HIGH CUT
859 : DELAY DIRECT LEVEL
860 : DELAY TAP TIME

861 : DELAY D1: TIME
862 : DELAY D1: F.BACK
863 : DELAY D1: HI CUT
864 : DELAY D1: LEVEL
865 : DELAY D2: TIME
866 : DELAY D2: F.BACK
867 : DELAY D2: HI CUT
868 : DELAY D2: LEVEL
869 : DELAY MOD RATE
870 : DELAY MOD DEPTH

FX4 DLY+REV REVERB

871 : REVERB TYPE
872 : REVERB TIME
873 : REVERB PRE DELAY
874 : REVERB EFFECT LEVEL
875 : REVERB LOW CUT
876 : REVERB HIGH CUT
877 : REVERB DENSITY
878 : REVERB DIRECT LEVEL
879 : REVERB SPRING SENS

FX4 EQ

880 : L.GAIN 100Hz
881 : H.GAIN 10kHz
882 : LEVEL
883 : LO-MID FREQ
884 : LO-MID Q
885 : LO-MID GAIN
886 : HI-MID FREQ
887 : HI-MID Q
888 : HI-MID GAIN
889 : LOW CUT
890 : HIGH CUT

FX4 FLANGR

891 : RATE
892 : DEPTH
893 : RESO
894 : MANUAL
895 : SEPARATION
896 : LOW CUT
897 : EFFECT LEVEL
898 : DIRECT LEVEL

FX4 ISOLATOR

899 : BAND
900 : RATE
901 : DEPTH
902 : BAND LEVEL

FX4 LIMITER

903 : TYPE
904 : THRESH
905 : RATIO
906 : EFFECT LEVEL
907 : ATTACK
908 : RELEASE

FX4 LO-FI

909 : BIT DEPTH
910 : SAMPLE RATE
911 : BALANCE

FX4 OD/DS

912 : TYPE
913 : DRIVE
914 : TONE
915 : LEVEL
916 : BOTTOM
917 : DIRECT LEVEL
918 : SOLO OFF/ON
919 : SOLO LEVEL
920 : AMP OFF/ON
921 : NS OFF/ON
922 : NS THRESH
923 : NS RELEASE

FX4 PAN

924 : TYPE
925 : WAVE SHAPE
926 : RATE
927 : DEPTH
928 : EFFECT LEVEL
929 : POS

FX4 PHASER

930 : TYPE
931 : RATE
932 : DEPTH
933 : RESO
934 : MANUAL
935 : STEP RATE
936 : EFFECT LEVEL
937 : DIRECT LEVEL

FX4 REVERB

938 : TYPE
939 : TIME

940 : PRE DELAY
941 : EFFECT LEVEL
942 : LOW CUT
943 : HIGH CUT
944 : DENSITY
945 : DIRECT LEVEL
946 : SPRING SENS

FX4 ROTARY

947 : SPEED SELECT
948 : RATE SLOW
949 : RATE FAST
950 : DEPTH
951 : RISE TIME
952 : FALL TIME
953 : EFFECT LEVEL

FX4 SLICER

954 : PATTERN
955 : RATE
956 : DEPTH

FX4 SLOWGEAR

957 : SENS
958 : RISE TIME
959 : EFFECT LEVEL

FX4 T.WAH

960 : MODE
961 : POLAR
962 : SENS
963 : FREQ
964 : PEAK
965 : EFFECT LEVEL
966 : DIRECT LEVEL

FX4 TREMOLO

967 : WAVE SHAPE
968 : RATE
969 : DEPTH
970 : EFFECT LEVEL

FX4 UNI-V

971 : RATE
972 : DEPTH
973 : EFFECT LEVEL

PATCH COM

974 : LEVEL
975 : TEMPO
986 : RETURN LEVEL
987 : DIRECT LEVEL
988 : RETURN PHASE
989 : SUBOUT LEVEL
990 : OSC ASSIGN

OSC MIXER

976 : BALANCE
977 : CH A LEVEL
978 : CH A PAN
979 : CH B LEVEL
980 : CH B PAN

OUTPUT MIXER

981 : BALANCE
982 : SYNTH LEVEL
983 : SYNTH PAN
984 : RETURN LEVEL
985 : RETURN PAN

The following cannot be used when the assign source is "WAVE" nor can they be selected for "QUICK KNOB."

CONTROL

991 : OSC1 HOLD
992 : OSC2 HOLD
993 : OSC3 HOLD
994 : OSC ALL HOLD
995 : SEQ ALL OFF/ON
1029 : SYNC START
996 : TUNER OFF/ON
1028 : SY-300 ON/OFF
1002 : BLENDR EXEC

TAP

997 : BPM TAP
998 : FX1 DELAY TAP
999 : FX2 DELAY TAP
1000 : FX3 DELAY TAP
1001 : FX4 DELAY TAP

PATCH

1003 : SELECT
1004 : NUMBER +1
1005 : NUMBER +2
1006 : NUMBER +3
1007 : NUMBER +4
1008 : NUMBER +5
1009 : NUMBER +6
1010 : NUMBER +7
1011 : NUMBER +8

```
1012 : NUMBER +9
1013 : NUMBER +10
1014 : NUMBER -1
1015 : NUMBER -2
1016 : NUMBER -3
1017 : NUMBER -4
1018 : NUMBER -5
1019 : NUMBER -6
1020 : NUMBER -7
1021 : NUMBER -8
1022 : NUMBER -9
1023 : NUMBER -10
1024 : LEVEL +10
1025 : LEVEL +20
1026 : LEVEL -10
1027 : LEVEL -20
```

GUITAR SYNTHESIZER
Model: SY-300

MIDI Implementation Chart

Date: May 28th, 2015
Version: 1.00

Function...		**Transmitted**	**Recognized**	**Remarks**
Basic	Default	1—16	1—16	Memorized *1
Channel	Changed	1—16	1—16	*1
	Default	x	OMNI ON/OFF	Memorized *2
Mode	Messages	x	x	
	Altered	**********	x	
Note		*1	*1	
Number :	: True Voice	**********	**********	
Velocity	Note On	o 9nH	o	
	Note Off	o 9nH v=00	o	
After	Key's	x	x	
Touch	Channel's	x	x	
Pitch Bend		x	x	
	0	o (0 - 1)	o (0 - 1)	Bank Select (MSB)
	1 - 31	o *1	o *2	
Control	32	o (only 0)	o (only 0)	Bank Select (LSB)
Change	33 - 63	x	x	
	64 - 95	o *1	o *2	
Program		o	o	
Change	: True Number	0-98	0-127	Program Number 1-128
System		o	o	
Exclusive				
	: Song Position	x	x	
System	: Song Select	x	x	
Common	: Tune Request	x	x	
	: Clock	o	o	
System	: Start	x	o	
Real Time	: Continue	x	o	
	: Stop	x	o	
	: All Sound Off	x	x	
	: Reset All Controllers	x	x	
Aux	: Local On/Off	x	x	
Messages	: All Notes Off	x	x	
	: Active Sensing	o	o	
	: System Reset	x	x	
Notes	*1 "CTL1 OUT"-"EXP OUT" parameter of "SYSTEM:MIDI SETTING".			
	*2 "SOURCE NUMBER" parameter of "CTL/EXP:MIDI".			

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

O : Yes
X : No

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