

LOOP SWITCHER

Cybery MIDI Function Instruction



● What Is MIDI?

MIDI (Musical Instrument Digital Interface) is a technical standard that describes a communications protocol, digital interface and electrical connectors and allows a wide variety of electronic musical instruments, computers and other related music and audio devices to connect and communicate with one another.

MIDI carries messages such as notation, pitch, velocity (or we say loudness), parameter control (e.g. volume, modulation amount) and clock signals that set and synchronize tempo between multiple devices. These messages are sent via a MIDI cable to other devices where they control sound generation and other features.

● What Kind of MIDI Message Does Cybery Support?

Since Cybery is designed as a loop switcher with MIDI function, it is more focused on MIDI controlling such as switching presets, controlling one effect on/off, setting an effect parameter, et al.

Cybery can send PC (Program Change) and CC (Control Change) messages:

PC (Program Change) messages are commonly used to change device presets. A PC message contains a MIDI channel number (1-16) and a value (0-127).

CC (Control Change) messages are commonly used to switch effect on/off, change parameter values, etc. A CC message contains a MIDI channel number (1-16), a controller number (indicates the parameter under control, 0-127) and a value (0-127). Cybery doesn't support continuous controlling, which means all CC messages will be triggered immediately.

● Before We Start

We recommend you to get these things ready:

1. Of course, a Cybery
2. The device you want to control (could be a pedal, a rack amp modeler/multi-FX and more)
3. Turn on your Cybery and get connected via Cybery app, choose a mode, tap a footswitch on Cybery app and turn on MIDI switch (let's start with Preset Mode and Preset A1)
4. A MIDI Cable
5. Find out user manual of the device under control and find the MIDI setting instruction

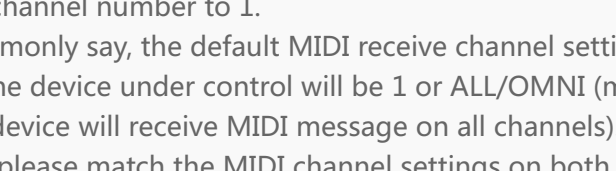
● Connection

Use a MIDI cable to connect Cybery's MIDI OUT/THRU port to MIDI IN jack on the device under control. Please note a MIDI cable carry MIDI message only in one direction, if you're using a MIDI cable with "IN" "OUT" on both sides, you need to connect the "IN" plug to MIDI OUT/THRU jack, and connect "OUT" plug to MIDI IN jack.

● Examples – Controlling a Fractal AXE FX-II

Using a CC Message

First of all, tap "Code" and set MIDI message type to Control Change:



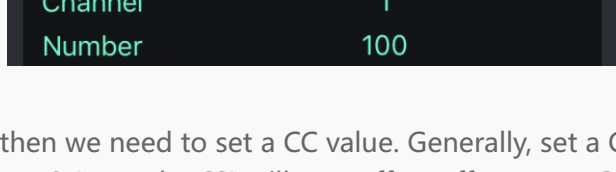
You'll easily find there is a "Channel" bar under "Code" bar which indicates the current MIDI channel number. If you have only one device to control, just set the channel number to 1.

Commonly say, the default MIDI receive channel setting on the device under control will be 1 or ALL/OMNI (means the device will receive MIDI message on all channels). If not, please match the MIDI channel settings on both Cybery and your device.

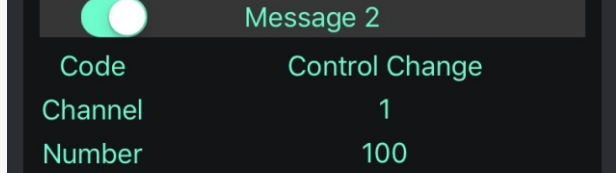
Then, find the MIDI CC list on the Axe FX-II manual:

Function	CC#	Function	CC#	Function	CC#
Input Volume	10	Compressor 1 Bypass	43	Resonator 1 Bypass	81
Out 1 Volume	11	Compressor 2 Bypass	44	Resonator 2 Bypass	82
Out 2 Volume	12	Cr	45	Reverb 1 Bypass	83
Bypass	13	Crossover 2 Bypass	46	Reverb 2 Bypass	84
Tuner	14	Delay 1 Bypass	47	Ring Modulator Bypass	85
External Control 1	15	Delay 2 Bypass	48	Rotary 1 Bypass	86
External Control 2	16	Drive 1 Bypass	49	Rotary 2 Bypass	87
External Control 3	17	Drive 2 Bypass	50	Synth 1 Bypass	88
External Control 4	18	Enhancer Bypass	51	Synth 2 Bypass	89
External Control 5	19	Filter 1 Bypass	52	Tone Matching	99
External Control 6	20	Filter 2 Bypass	53	Tremolo 1 Bypass	90
External Control 7	21	Filter 3 Bypass	54	Tremolo 2 Bypass	91
External Control 8	22	Filter 4 Bypass	55	Vocoder Bypass	92
External Control 9	23	Flanger 1 Bypass	56	Volume/Pan 1 Bypass	93
External Control 10	24	Flanger 2 Bypass	57	Volume/Pan 2 Bypass	94
External Control 11	25	Formant 1 Bypass	58	Volume/Pan 3 Bypass	95
External Control 12	26	FX Loop Bypass	59	Volume/Pan 4 Bypass	96
External Control 11	27	Gate/Expander 1 Bypass	60	Wahwah 1 Bypass	97
Looper Record	28	Gate/Expander 2 Bypass	61	Wahwah 2 Bypass	98
Looper Play	29	Graphic EQ 1 Bypass	62	Amp 1 X/Y	100
Looper Once	30	Graphic EQ 2 Bypass	63	Amp 2 X/Y	101
Looper Dub	31	Graphic EQ 3 Bypass	64	Cab 1 X/Y	102
Looper Rev	32	Graphic EQ 4 Bypass	65	Cab 2 X/Y	103
Looper Bypass	33	Megatap Delay Bypass	66	Chorus 1 X/Y	104
Looper Half	120	Multiband Comp 1 Bypass	67	Chorus 2 X/Y	105
Looper Undo	121	Multiband Comp 2 Bypass	68	Delay 1 X/Y	106
Metronome	122	Multi-Delay 2 Bypass	69	Delay 2 X/Y	107
Scene Select	34	Multi-Delay 1 Bypass	70	Drive 1 X/Y	108
Scene Increment	123	Parametric EQ 1 Bypass	71	Drive 2 X/Y	109
Scene Decrement	124	Parametric EQ 2 Bypass	72	Flanger 1 X/Y	110
Volume Increment	35	Parametric EQ 3 Bypass	73	Flanger 2 X/Y	111
Volume Decrement	36	Parametric EQ 4 Bypass	74	Phaser 1 X/Y	112
Amp 1 Bypass	37	Phaser 1 Bypass	75	Phaser 2 X/Y	113
Amp 2 Bypass	38	Phaser 2 Bypass	76	Pitch 1 X/Y	114
Cab 1 Bypass	39	Pitch Shifter 1 Bypass	77	Pitch 2 X/Y	115
Cab 2 Bypass	40	Pitch Shifter 2 Bypass	78	Reverb 1 X/Y	116
Chorus 1 Bypass	41	Quad Chorus 1 Bypass	79	Reverb 2 X/Y	117
Chorus 2 Bypass	42	Quad Chorus 2 Bypass	80	Wahwah 1 X/Y	118
				Wahwah 2 X/Y	119

For example, we need to use Cybery to control the Amp 1 X/Y setting. As listed in the CC list, the CC controller number of Amp 1 X/Y is 100, so let's fill the "Number" blank with 100:



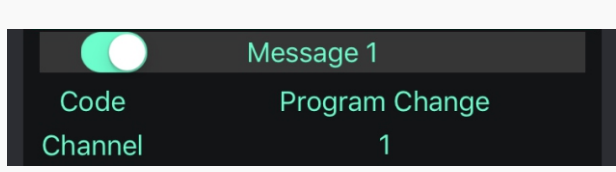
And then we need to set a CC value. Generally, set a CC value to 0 (or under 63) will turn off an effect, set a CC value to (or above 64) will turn it on. On Axe FX-II, set the value to 127 to switch Amp X to Amp Y, 0 to switch Amp Y to Amp X. In this example we can fill the blank with 127:



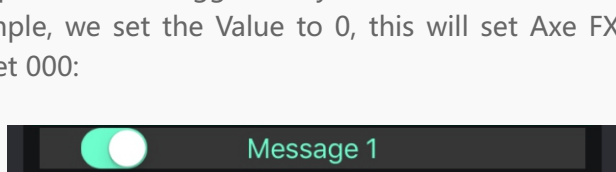
Tap the Save button on the lower right corner of the screen to save the setting to the current footswitch. Tap Footswitch 1 to see if it works.

Using a PC Message

Tap "Code", set MIDI message type to Program Change, and fill the correct MIDI channel number (same as above):



Commonly say, each preset on the devices under control has a single program number, which means, a preset 000/patch 00 is triggered by a MIDI PC 0, a preset 001/patch 01 is triggered by a MIDI PC 1, etc. In this example, we set the Value to 0, this will set Axe FX-II to Preset 000:



Tap the Save button on the lower right corner of the screen to save the setting to the current footswitch. Tap Footswitch 1 to see if it works.

In the above texts we gave an example of basic MIDI PC/CC settings. On Cybery you can send up to 3 different MIDI PC/CC message on one footswitch, which means, you can use PC/CC combinations or multiple CC/PC messages to achieve complex controls to manage your huge pedal/rack matrix.

Meanwhile, in the Cybery app we offer some Global Profiles with MIDI setting templates for your reference, and the Global Profiles will be updated in the future. Stay tuned!

CyberyGlobal Profiles List				
Strymon				
	1	2	3	4
Bank A	1	2	3	4
Bank B	1	2	3	4
Bank C	1	2	3	4
Bank D	1	2	3	4
Bank E	1	2	3	4
Bank F	1	2	3	4
Bank G	1	2	3	4
Bank H	1	2	3	4
Bank I	1	2	3	4
Bank J	1	2	3	4
Two Notes(C,A,B/Live)				
Bank A	1	2	3	4
Bank B	1	2	3	4
Bank C	1	2	3	4
Bank D	1	2	3	4
Bank E	1	2	3	4
Bank F	1	2	3	4
Bank G	1	2	3	4
Bank H	1	2	3	4
Bank I	1	2	3	4
Bank J	1	2	3	4
Axe FX-II				
Bank A	1	2	3	4
Bank B	1	2	3	4
Bank C	1	2	3	4
Bank D	1	2	3	4
Bank E	1	2	3	4
Bank F	1	2	3	4
Bank G	1	2	3	4
Bank H	1	2	3	4
Bank I	1	2	3	4
Bank J	1	2	3	4
Beatbuddy				
Bank A	1	2	3	4
Bank B	1	2	3	4
Bank C	1	2	3	4
Bank D	1	2	3	4
Bank E	1	2	3	4
Bank F	1	2	3	4
Bank G	1	2	3	4
Bank H	1	2	3	4
Bank I	1	2	3	4
Bank J	1	2	3	4