

Boutique MIDI Converter

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Installation

Boutique MIDI Converter works for 32- and 64-bit versions of Windows 7 and newer. The program has been tested working in FL Studio 12, Sonar X3, Ableton Live 9 and Cubase but should work for any DAW.

IMPORTANT: The Boutique synths need to be connected to their hardware MIDI ports, connecting the Boutiques over USB will not work since sysex messages are not sent nor received over MIDI USB of the Boutique synths.

Also, the Boutique synths only send sysex messages when chain mode is enabled (MANUAL+9 then 1:Off or 2:On), so you need to enable that if you want to send the values of the sliders and buttons. When chain mode is enabled though, the first 4 notes triggered will not be sent over MIDI so you need to use another keyboard for jamming.

Note that if you just want to automate the sliders and buttons you don't need to have chain mode enabled since sysex is always received.

.NET Framework 4.5

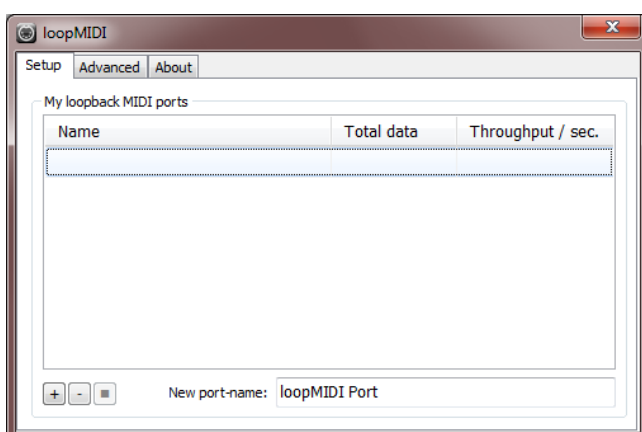
The program needs .NET Framework 4.5. This should already be installed on most machines, if not, you can download it here:

<http://www.microsoft.com/en-us/download/details.aspx?id=42643>

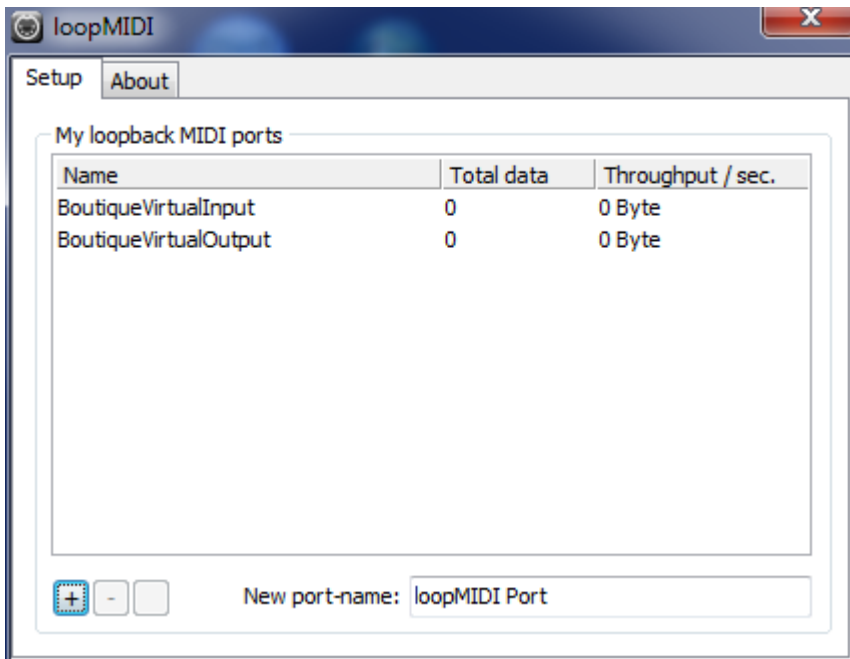
Setting up virtual MIDI ports

In order to use the MIDI Filter tool you need to set up at least one virtual MIDI port on your computer, this can easily be achieved with the great free tool loopMIDI. If you are going to use the MIDI converter in one direction only then you only need one virtual MIDI port, if you need conversion both in and out you will need two virtual MIDI ports.

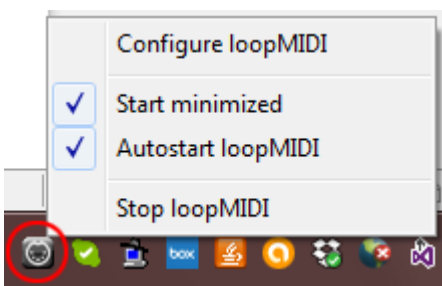
First download and install loopMidi (or another virtual midi port tool). You can find loopMIDI here: <http://www.tobias-erichsen.de/software/loopmidi.html>.



Start loopMidi and create a new virtual midi port by first changing the port name from "loopMIDI Port" to something more describing, like "BoutiqueVirtualInput" and "BoutiqueVirtualOutput". Then click the + button positioned down to the left. Repeat the process for the second port, if you will use the converter in both directions.



You can now close loopMIDI, it will run in the background, there should be a tray icon showing this. By right-clicking this tray icon you can have loopMidi start minimized automatically with Windows (see the image below).



Installing Boutique MIDI Converter

There is currently no installer for Boutique MIDI Converter. You just need to extract the zip-file and copy all the files to a new folder in your "Program files" folder (name the new folder "BoutiqueMIDIConverter" or something similar).

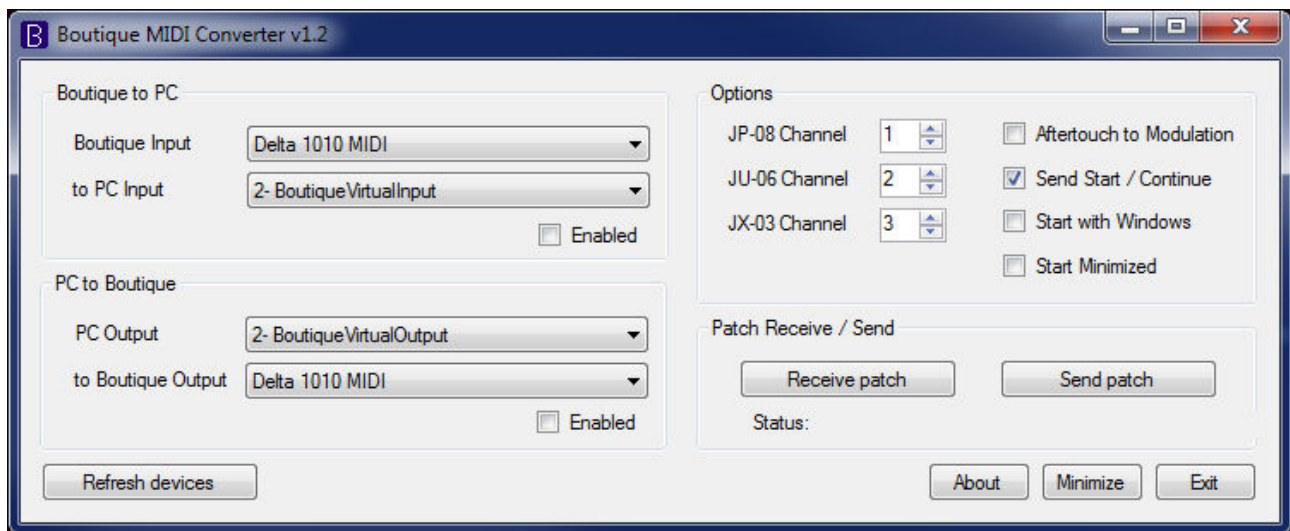
For convenience, you can create a shortcut for the program on the desktop.

For the full version you also need to copy the file named *BoutiqueMIDIConverter.lic* to the installation folder. This file will be sent to you when you opt for the full version.

Using Boutique MIDI Converter

MIDI Ports

Boutique MIDI Converter can be used in both directions or you can just enable the input or output conversion if you want. Set up the MIDI ports as in the picture below. The Delta 1010 port is the hardware port I'm using for the Boutique synths, you need to choose the correct hardware ports for your setup.



MIDI channels

You also need to set the MIDI channels for the Boutique synths. These channels need to match the channels set up on the actual Boutique synths. Also, the different models need to be set to unique MIDI channels, otherwise the conversion will not work. This option can be changed even with the MIDI conversion activated.

Other options

Aftertouch to Modulation

When this option is enabled, channel aftertouch messages will be converted to modulation CC messages. This is a useful option since the Boutique synths will not react to channel aftertouch. This option can be changed even with the MIDI conversion activated.

Send Start / Continue

When this is enabled, start and continue transport messages will be sent as normal, when disabled, these messages will be filtered out so the internal sequencer of the Boutique synths will not start. This option can be changed even with the MIDI conversion activated.

Start with Windows

When enabled, the program will start automatically when you start Windows. (This is done by writing a value to the registry if you want to remove it manually:

HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Run)

Start Minimized

When enabled, the program will be started automatically minimized to the system tray, use in combination with the option above.

Enabling the MIDI Ports and conversion

When you have chosen the MIDI ports and MIDI channels, you can enable the conversion by checking the "Enable" checkboxes for the direction(s) you wish.

When doing this, and there is no problem, the "Enable" checkbox should stay checked and the system tray icon should change from red to partial or full green. The icon will look like this:

Both sides **red**

Left side **green** and right side **red**

Left side **red** and right side **green**

Both sides **green**

input and output *disabled*

input *enabled*, output *disabled*

input *disabled*, output *enabled*

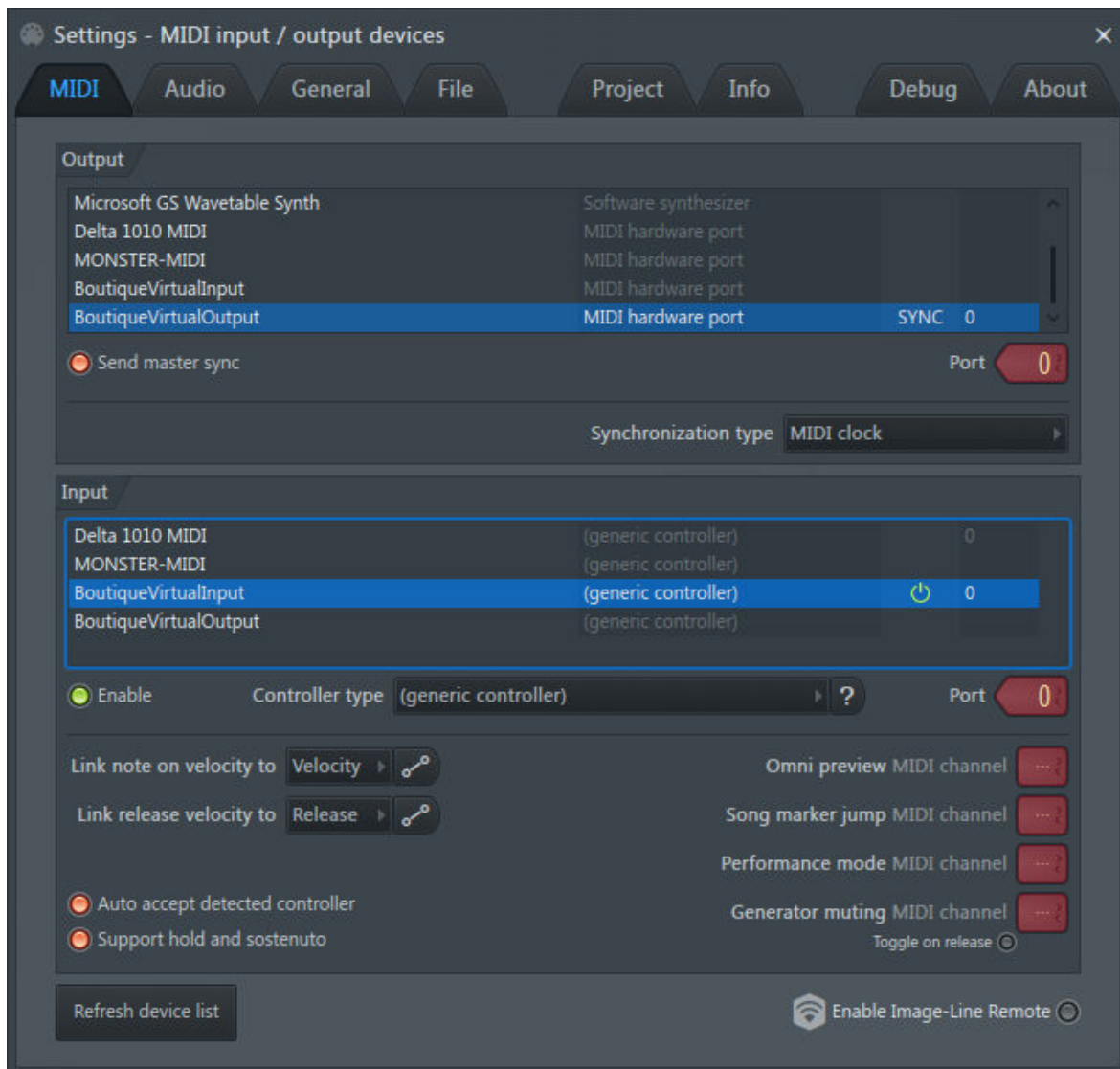
input and output *enabled*

Setting up your DAW

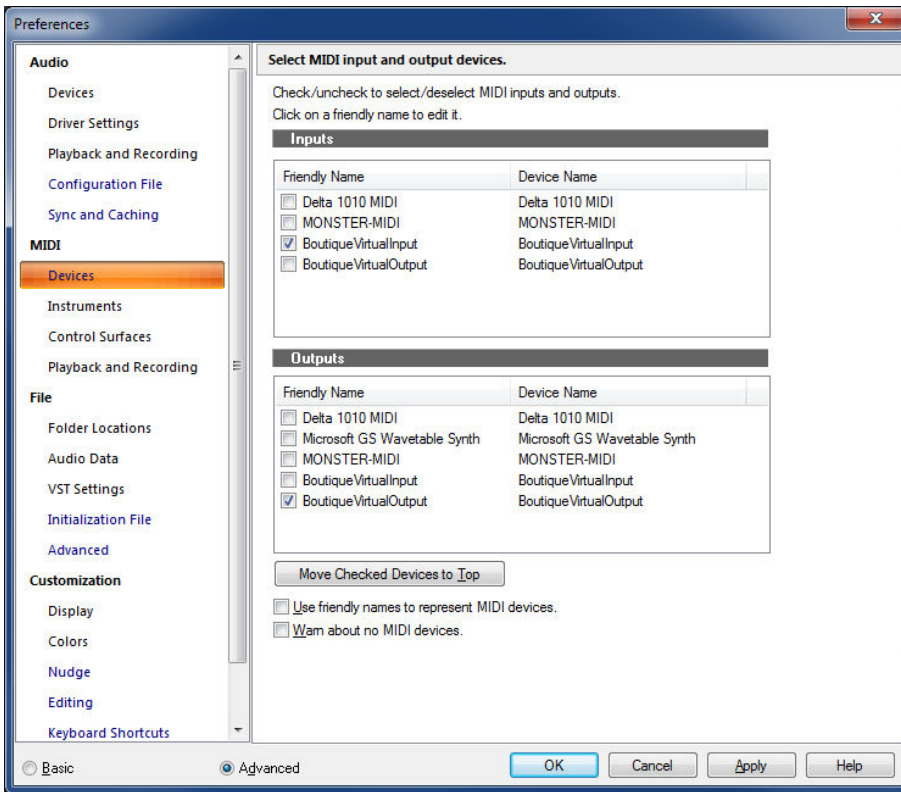
Finally you need to set up your DAW to use the virtual MIDI ports instead of the hardware ports. All MIDI data for the Boutique synths will then go through Boutique MIDI Converter. You can still have other MIDI gear connected to the same hardware MIDI ports (chained to the Boutique synths), since only MIDI data on the MIDI channels selected will be converted, MIDI data on other MIDI channels will be untouched and sent through as is (start and continue transport messages are not connected to a MIDI channel so no MIDI gear connected to the hardware ports selected will receive these messages).

The pictures below show how you would setup MIDI ports in FL Studio 12, Sonar X3 and Ableton Live 9, but basically for the input you choose the virtual input port created in loopMIDI, in this case *BoutiqueVirtualInput*, the output port will be *BoutiqueVirtualOutput*. Note that in case you are using the converter only in one direction you would select the virtual port only for that direction.

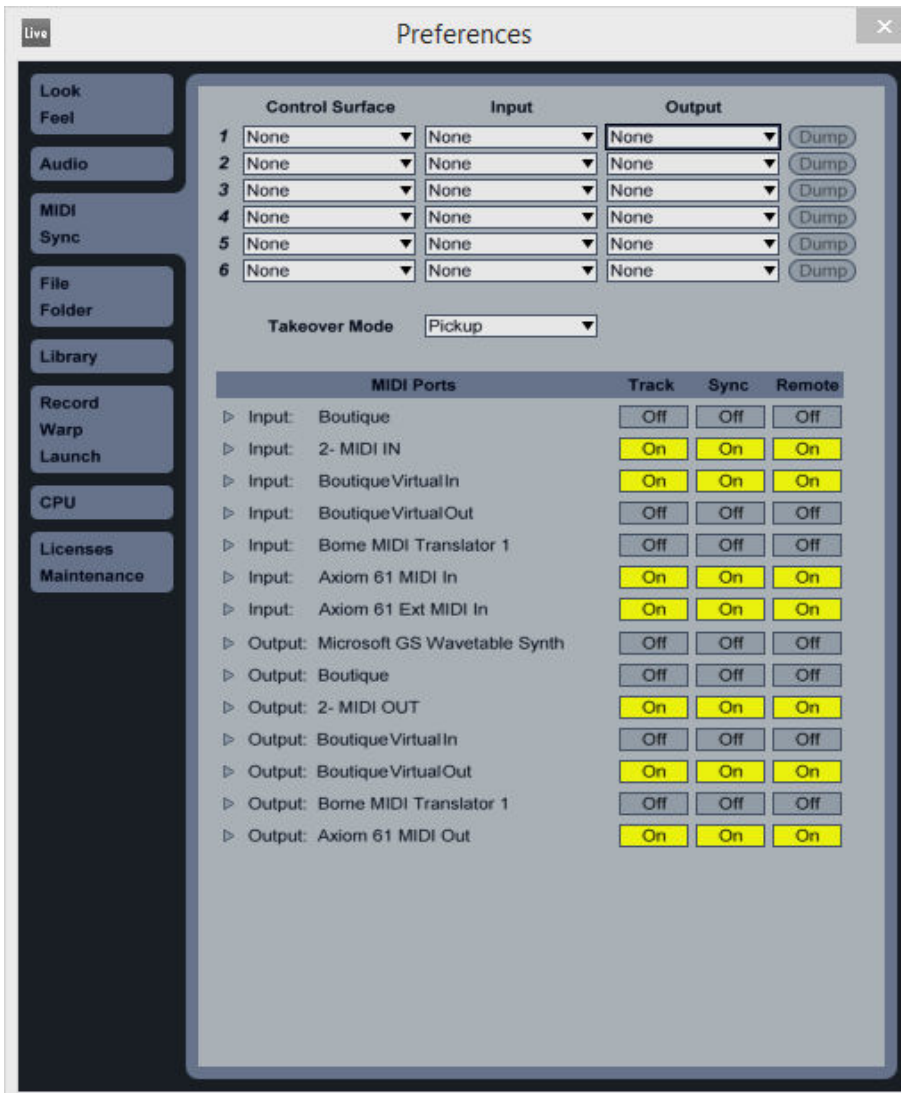
FL Studio 12 MIDI Settings



Sonar X3 MIDI Settings



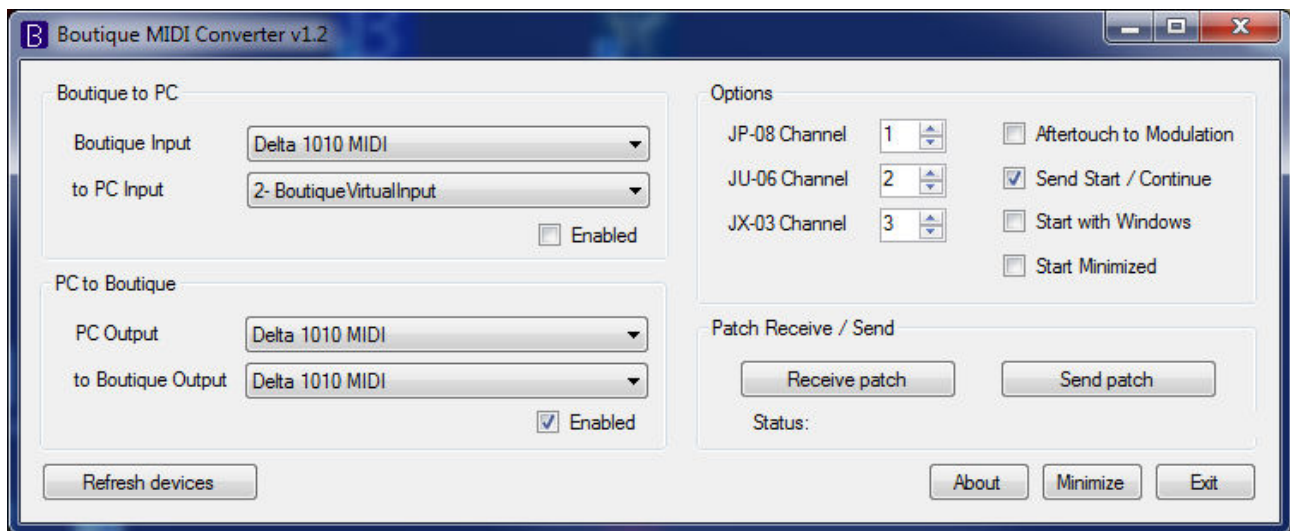
Ableton Live 9 MIDI Settings



Using Boutique MIDI Converter without a DAW

You can use Boutique MIDI Converter without a DAW if you just want to control the Boutique synths with another MIDI controller. No virtual MIDI ports are needed in this case.

In the picture below I have set up the *PC to Boutique* part to be able to control the Boutique synths with a hardware MIDI controller. *PC Output* needs to be set to the MIDI port where the output of the hardware MIDI controller is connected and *to Boutique Output* needs to be set to the MIDI port where input of the Boutique synth(s) is connected.



Receiving and sending patches

Receiving patches

To receive a patch you need to have the *Boutique to PC* part enabled, then just click the *Receive patch* button, the program is now waiting to receive a patch.

Then select a patch on the Boutique synth to receive a stored patch OR press the *Manual* button to receive the current patch being edited in manual mode.

The program should now show a file save dialog, so you just need to choose a folder and give a name to the file where the patch will be stored (sysex format).

Sending patches

To send a patch you just click the *Send patch* button and then choose a previously saved patch file from the open file dialog.

Controller Numbers

Knobs / Sliders

CC	JX-03	JU-06	JP-08
9			VCO Crossmod
12	Fine Tune		VCO2 Tune
13	Tune		VCO2 Range
14	DCO Envelope Mod		VCO Envelope Mod
15	DCO LFO Mod	DCO LFO	VCO LFO Mod
16	Source Mix	DCO Sub	VCO1&2 Source Mix
17	High Pass Filter	High Pass Filter	High Pass Filter
18	Resonance	Resonance	Resonance
19	Cutoff Frequency	Cutoff Frequency	Cutoff Frequency
20	VCF Envelope Mod	VCF Envelope Mod	VCF Envelope Mod
21	VCF LFO Mod	VCF LFO Mod	VCF LFO Mod
22	Pitch Follow	VCF Kybd	VCF Keyfollow
23	VCA Level	VCA Level	VCA Level
24	LFO Rate	LFO Rate	LFO Rate
25	LFO Delay	LFO Delay	LFO Delay
26	ENV Attack	ENV Attack	ENV1 Attack
27	ENV Decay	ENV Decay	ENV1 Decay
28	Sustain	ENV Sustain	ENV1 Sustain
29	Release	ENV Release	ENV1 Release
30		DCO PWM	VCO PWM
31		DCO Noise	
48			ENV2 Attack
49			ENV2 Decay
50			ENV2 Sustain
51			ENV2 Release

Switches

CC	JX-03	JU-06	JP-08
70			VCO2 Sync (0:Off, 64:On)
71			PW Mod (0:Env1, 32:M, 64:LFO)
72	DCO1 Range (0:64", 16:32", 32:16", 48:8", 64:4", 80:2")	DCO Range (0:8", 32:16", 64:32")	VCO1 Range (0:64", 16:32", 32:16", 48:8", 64:4", 80:2")
73	DCO1 Wave (0:Sine, 16:Tri, 32:Saw, 48:Pulse, 64: Sqr, 80:Noise)	DCO Pulse (0:Off, 64:On)	VCO1 Wave (0:Sine, 16:Tri, 32:Saw, 48:Pulse, 64:Sqr, 80:Noise)
74	DCO2 Range (0:64", 16:32", 32:16", 48:8", 64:4", 80:2")		
75	DCO2 Wave (0:Sine, 16:Tri, 32:Saw, 48:Pulse, 64: Sqr, 80:Noise)	DCO Saw (0:Off, 64:On)	VCO2 Wave (0:Sine, 16:Saw, 32:Pulse, 48:LFSine, 64:LFSaw, 80:LFPulse)
76	DCO2 Cross Mod (0:Off, 16:Syn1, 32:Syn2, 48:Met1, 64:Met2, 80:Ring)		Freq Mod (0:VCO2, 32:VCO1+2, 64:VCO1)
77	VCF Envelope Polarity (0:Inverted, 64:Normal)	VCF Envelope Polarity (0:Inverted, 64:Normal)	VCF Envelope Polarity (0:Inverted, 64:Normal)
78	VCA Mode (0:Gate, 64:Envelope)	VCA Mode (0:Gate, 64:Envelope)	
79	DCO2 Envelope Mod (0:Off, 64:On)		
80	DCO2 LFO Mod (0:Off, 64:On)		
81	DCO1 Envelope Mod (0:Off, 64:On)		
82	DCO1 LFO Mod (0:Off, 64:On)	DCO PW LFO Mod (0:Manual, 64:LFO)	
83	LFO Wave (0:Sine, 16:Saw, 32:Ramp, 48:Sqr, 64:Rnd, 80:Noise)		LFO Wave (0:Sine, 16:Tri, 32:Saw, 48:Sqr, 64:Rnd, 80:Noise)
84	DCO Envelope Polarity (0:Inverted, 64:Normal)		
85	Chorus (0:Off, 64:On)	Chorus (0:Off, 32:Chorus1, 64:Chorus2, 80:Chorus1&2)	Dual mode (0:Off, 64:On)
86	Poly Mode (0:Poly, 64:Solo, 96:Unison)	Poly Mode (0:Poly, 64:Solo, 96:Unison)	Poly Mode (0:Poly, 64:Solo, 96:Unison)
87			ENV2 Keyfollow (0:Off, 32:Env1, 64:Env2, 80:Env1+2)
88			VCA LFO Mod (0:0, 32:1, 64:2, 96:3)
89			Filter Slope (0:24DB, 64:12DB)
90			Filter Envelope (0:Env2, 64:Env1)
102	Delay level (16 steps, 0: Off)	Delay level (16 steps, 0: Off)	Delay level (16 steps, 0: Off)
103	Delay time (16 steps)	Delay time (16 steps)	Delay time (16 steps)
104	Delay feedback (16 steps, 0:Off)	Delay feedback (16 steps, 0:Off)	Delay feedback (16 steps, 0:Off)