

# MIDI Setup Hints and Tricks

## PCM92 – PCM96 – PCM96 Surround

**MIDI in the PCM Device Series can be setup in two basic configurations.**

### Setup #1 – More Devices

This setup is designed for the user who will:

- Use the PCM System Presets (User or Default) only for either a live or studio setup
- Control more than 3 PCM Devices on the same MIDI Port

### Setup #2 – More Control

This setup is designed for the user who:

- Wants to be able to control every aspect of MIDI on the PCM Device
- Only has 1 to 3 PCM Devices

### Setup Definitions:

**Setup #1 – More Devices:** This setup would be used in situations where you want to control more than 3 PCM Devices on the same MIDI port. This setup will control up to 16 PCM Devices. In this particular setup configuration, you cannot make specific patch changes on individual machines via MIDI; you can only change the System Presets.

You would arrange the MIDI Control Menu in this way:

MIDI: **ON**

Sysex Device ID: **0**

System MIDI Ch: **0\***

Machine 1 MIDI Ch: **OFF**

Machine 2 MIDI Ch: **OFF**

Machine 3 MIDI Ch: **OFF**

Machine 4 MIDI Ch: **OFF**

\* Each subsequent PCM Device would be the next number... 0 – 15.

**Setup #2 – More Control:** This setup allows the user to control all the aspects of the PCM Device that can be controlled via MIDI. However, the user is limited to a maximum of 3 PCM Devices with this setup. The user can define the Machine Configuration on one MIDI channel, then define what preset will be loaded in each Machine using different MIDI channels. This setup also allows each Soft Row parameter on each Machine to be controlled with MIDI Continuous Controllers.

You would arrange the MIDI Control Menu in this way:

MIDI: **ON**

Sysex Device ID: **0**

System MIDI Ch: **0\***

Machine 1 MIDI Ch: **1**

Machine 2 MIDI Ch: **2**

Machine 3 MIDI Ch: **3**

Machine 4 MIDI Ch: **4**

\* Each subsequent PCM Device would then start on MIDI channel 5, with each machine as Channel +1.

**Preset Loading:**

Because of the large number of potential presets in the PCM96, Preset Change Messages are used along with the Bank Select Extension to provide MIDI preset selection. Controller 32 is used to select the current preset bank. Controller 32 is sent to the system (to select the desired bank), followed by a Preset Change message to select a preset. The bank values are “sticky,” meaning the PCM96 will remember the Bank values for each MIDI channel. It is not necessary to send a Bank change with each Preset Change unless the Bank has indeed changed.

**User Bank Preset Map:**

User Bank	Type		Presets	MIDI Bank #
Internal	Mono	1	0-127	72
		2	128-255	73
	Stereo	1	0-127	74
		2	128-255	75
	System	1	0-127	76
		2	128-255	77
Flash Card (PCM96 and PCM96 Surround Only)	Mono	1	0-127	100
		2	128-255	101
		3	256-383	102
		4	384-511	103
	Stereo	1	0-127	104
		2	128-255	105
		3	256-383	106
		4	384-511	107
	System	1	0-127	108
		2	128-255	109
		3	256-383	110
		4	384-511	111

