M7 MIDI App Notes

System Menu MIDI Settings

There are 2 midi related pages in the system menu. These need to be set correctly for the M7 communicate with another midi device:

Midi Channel:
This selects the midi channel the M7 will communicate on, 1-15 or Omni.
This is only needed for Program Change Messages. Sysex messages do not use MIDI channel information.

Midi Bank:
This selects the default bank that MIDI Program Changes will be mapped to. At the factory this is set to Registers.

This is the default bank used every time the M7 is powered up. The M7 does respond to MIDI Bank change messages (see below). When a MIDI Bank Change message is received it will change the current Bank, (but not the default bank specified in the System Page.)

Midi Program Changes

Midi Program Changes can be mapped to the Preset Programs by bank, User Registers, and Favorites. On the Midi Bank page, select between Preset Banks, User Registers or Favorites.

Mapping to the User Registers

1. In the system page Midi Bank select, set the M7 to Regs. This will map the program change to the user registers.
2. The program changes are mapped one to one with the user registers, so you will need to store the presets you want to use in the correct corresponding user registers. For example Midi program change 0 = M7 Register Bank 0 program 0 in the M7 and so on.
3. Start the sequencer or application that generates the changes and the M7 will follow and load the programs from the user registers.

Mapping to the Preset Programs and Banks

1. In the system page Midi Bank select, set the M7 to one of the listed preset banks, for example Halls 1. This will map the bank and following program change to the selected M7 Bank, in this case Halls 1. These program changes are mapped one to one with the programs in the selected M7 bank.

Mapping to the Four Favorites

1. In the system page Midi Bank select, set the M7 to Favs. This will map the bank and following program changes to the 4 front panel favorites.

Midi Bank and Program Changes

Press and hold momentarily ENTER and the current Bank and Program will be sent to your receiving device. When this is sent back to the M7, the saved Bank and Program will be selected. ***If an attempt is made to select an unused Register or Favorite, the Bank and Program Change is ignored.***

The M7 uses the following values for bank selects:
0 Halls
1 Plates
2 Rooms
3 Chambers
4 Ambience
5 Spaces
6 Halls 2 120 Registers
7 Plates 2
8 Rooms 2
9 Spaces 2
10 NonLin
118 Edit
119 Favorites
120 Registers

Sending Midi Sysex data from the M7 to another device.

You can select and send out different aspects of the M7 to be saved with your session for later recall, here is how to do it.
Sysex dumps from the M7 do not include MIDI channel information. If more than one M7 is in use, a MIDI patch bay is recommended.

Program Dump:
This will send out the current running program, any edited parameters and the state of the user interface. The running program can be a loaded preset, register or favorite, along with any edits. If a register or favorite is the basis of the running program, an unedited version of it will be saved as well.
This can be used as a comprehensive session recall when all aspects of the M7 program must be saved. More generally, this can be used to save User Registers and Favorites.
Press and hold momentarily PROG and the current running program will be sent to your receiving device. The TAP light LED will flash when the data is transmitted.

System Parameters Dump:
This will send out the complete system set up of the M7, and is useful for resetting the M7 to a desired I/O configuration for your session.
Press and momentarily hold SYSTEM and the system data will be sent to your receiving device. The TAP light LED will flash when the data is transmitted.

Edit Buffer Dump:
This will send out the current state of all the edit parameters of the M7, and will allow for snapshot automation of any parameter changes in the M7.
Press and momentarily hold EDIT and the system data will be sent to your receiving device. The TAP light LED will flash when the data is transmitted.

Receiving Midi Data from an external device
When the M7 receives the specific data packet, regardless of the state the M7 is in, it will set itself to that saved state. This will allow you to recall session data or automate the M7 using stored Program or Edit Data files from your midi sequencing device.

Receiving Program Data:
When the Program Data file is sent back to the M7, it will load the program, edited parameters and the state of the user interface. If a User Register or Favorite was the basis of the stored program, the User Register or Favorite will be restored as well. ***If an attempt is made to restore a User Register that is in a write protected User Register Bank, theentire Program Data file is ignored.***
The Tap LED will flash when a valid data pack is received. When the Tap LED lights, you can be assured that the data has been restored as requested.

Receiving System Data:
When the System Data file is sent back to the M7, it will set the system parameter settings in the M7 to the saved data. ***The MIDI address is not overwritten.***
The Tap LED will flash when a valid data pack is received. When the Tap LED lights, you can be assured that the data has been restored as requested.

Receiving Edit Buffer Data:
When the Edit Data file is sent back to the M7, it will create a new preset bank called Edit. This bank consists of a single preset that contains all the saved parameter settings.
This preset bank can be used just like any factory preset bank. ***It can be overwritten by a subsequent Edit Data file, and it is erased when the M7 is powered off.***
The Tap LED will flash when a valid data pack is received. When the Tap LED lights, you can be assured that the data has been restored as requested.

Copying and Transferring Settings and User Registers from one M7 to Another:
With two M7s connected with Midi send and receive cables, you can transfer System settings, User Registers, Favorites, and Edit buffer data from one M7 to another. This works just like the above examples only now the receiving M7 will immediately get the new settings and set itself accordingly.
This can be used to quickly copy User Registers between two M7s. Use Program Data to move User Registers to the same location in the second M7. Use Edit Data to first move a User Register into the Edit preset of the second M7, then store the Edit preset to any location in the second M7 if registers are to be moved to different locations.