

iConnectMIDI Firmware Update Procedure

To update iConnectMIDI firmware you will need the following:

1. A firmware update file from iConnectivity. This file is a standard MIDI file containing a sequence of system exclusive messages to update the iConnectMIDI firmware and some dummy note on/off messages.
2. A Mac or PC with a program that can play standard MIDI files. Not all MIDI file players are equal; some do not properly handle the timing information in the MIDI file correctly or they mess with the data in some manner. The following shareware programs have been tested and work fine: Rondo (for Mac), MIDIPlay (for PC). Digital Performer does not work correctly. You cannot update the firmware using iPhone, iPod, or iPad even if you have a MIDI file player for those devices; you must use a Mac or PC.
3. A mini USB cable to connect the Mac or PC to iConnectMIDI.

The upgrade procedure is fairly simple and takes approximately one minute to complete.

1. Unplug all cables from iConnectMIDI including the power adapter.
2. Insert a straightened paper clip or similar pointy object into the small hole on the left side of iConnectMIDI (near the front face). There is a tactile switch behind the small hole and you should feel it click once the switch is engaged.
3. While the switch is engaged, apply power to iConnectMIDI by connecting the power adapter.
4. Continue to engage the switch while iConnectMIDI starts up. Watch the LEDs on the front panel and release the switch when you see the USB D1 LED (second LED from the right) flashing on and off. The flashing LED pattern indicates that iConnectMIDI has started up in firmware update mode (as opposed to application mode). After a moment, the USB D1 LED will stop flashing and remain lit.
5. Connect a mini USB cable between your Mac or PC and the USB D1 port on iConnectMIDI (second mini USB connector from the right). The computer may indicate that you've connected a device named "iConnectMIDI Loader". "iConnectMIDI Loader" is a class-compliant MIDI device and does not need special drivers.
6. Start the program for playing standard MIDI files and open the iConnectMIDI firmware update file, select "iConnectMIDI Loader" as the destination device to receive the MIDI data.
7. Start playing the MIDI file from the very beginning and let it play through to the very end without stopping. The USB D1 LED will flash as data is received by iConnectMIDI. If this LED does not flash while the MIDI file is played, then there is likely a connection problem between the computer and iConnectMIDI that you will need to work out before updating the firmware. The LEDs on either side of the USB D1 LED may turn on and off during the firmware upgrade.
8. When the MIDI file has finished playing to the very end, the USB D1 LED will flash on and off indicating that the firmware update has successfully completed. If an error

occurs at any time during the update, the USB D1 LED will go out. If an error occurs, replay the MIDI file from the very beginning to reapply the firmware update.

9. Once the firmware update has been successfully applied, remove all cables from iConnectMIDI and then re-insert the power adapter (do not press the tactile switch). iConnectMIDI will start up in application mode using the newly installed firmware.

Troubleshooting

1. The firmware update file must be played from beginning to end without stopping. If you start playing from any point other than the very beginning, or if you pause playing and restart, or pause and try to resume from another point in the file, the USB D1 LED will go out indicating an error. Whenever the USB D1 LED is not lit, the MIDI file must be replayed from the very beginning and allowed to play all the way through. You do not have to restart iConnectMIDI by unplugging all cables and pressing the switch, just replay the MIDI file from the very beginning.
2. The firmware update file contains timing information that is crucial to the update procedure. Not all MIDI file players properly handle this timing information. If errors persist, try playing the MIDI file at half the original tempo or try another program. Not all MIDI file players allow changing the tempo. Never play the file faster than 100% tempo (120 BPM).