

## ShuffleBox User Manual V1.1

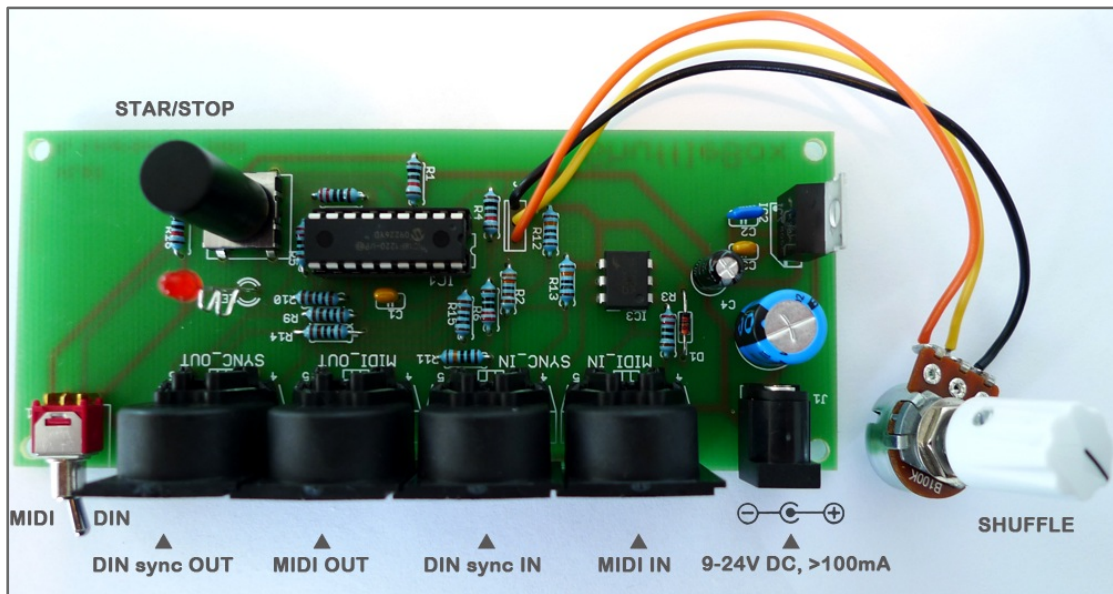


Figure 1: Overview

### Routing

ShuffleBox has 1x MIDI input, 1x MIDI output, 1x DIN sync input and 1x DIN sync output. With the input selector switch you can choose between DIN sync and MIDI as the input.

**DIN sync as input:** The incoming DIN sync data is processed and output on DIN sync OUT and on MIDI OUT.

-> The device works as DIN sync to shuffled DIN sync and DIN sync to shuffled MIDI converter.

**MIDI as input:** The incoming MIDI sync data is processed and output on MIDI OUT and DIN sync OUT. All other MIDI data is sent directly to the output without any processing.

Note: Shuffled MIDI sync may only work with older gear. New gear often performs a clock interpolation, which corrects irregular timing.

-> The device works as MIDI to shuffled MIDI converter and MIDI to shuffled DIN sync converter.

### SHUFFLE Potentiometer

As you rotate the pot clockwise, the shuffle amount will increase. With the pot in complete counter-clockwise position, the shuffle algorithm is disabled.

ShuffleBox does not support triple metre!

### Status LED

Off: power not connected, ShuffleBox off.

Flashing at 1/4<sup>th</sup>: Master sequencer running, synced devices running.

Flashing at 1/8<sup>th</sup>: Master sequencer running, synced devices paused.

### SART/STOP Button

This button enables you to send a STOP/START signal to the synced device while the main sequencer is still running.

With the main sequencer running, push this button once to stop the device attached to ShuffleBox at the end of the beat. The status LED will start flashing at a higher rate while the device is paused. Push this button again to start the synced device on the next beat.

Note: only 4/4<sup>th</sup> supported.

### Power Supply

To operate this device, you will need a power supply of 9-24V, >100mA. As soon as power is connected, the device is ready to be used.

### Firmware Update

New firmware versions can be loaded via MIDI using the ShuffleBox's bootloader. To activate this bootloader, perform the following steps:

- 1) Disconnect the power supply (power off)
- 2) Turn the shuffle potentiometer in full CW position
- 3) While turning-on the device, rotate the potentiometer in CCW direction. This step has to be done quite fast!
- 4) If done right, the LED will flash for about 1-2 seconds, showing that the bootloader has successfully been loaded. If not, repeat steps 1-3 until you are successful.

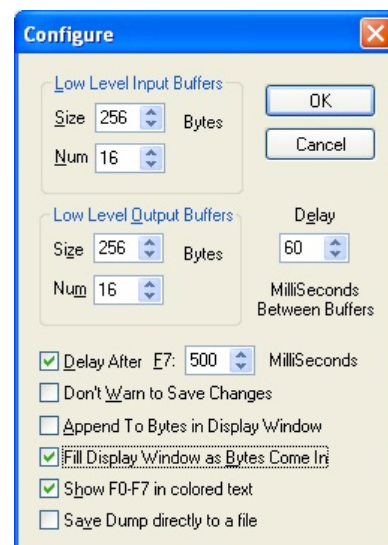
**Don't update your ShuffleBox with a MIDI interface with known transmission issues!** Your ShuffleBox might end up with a non-working firmware. This however can always be fixed with a working MIDI interface. In general, updating the firmware works with every USB2MIDI interface, even with a cheap 5\$ device.

With the MIDI input connected to your computer, you can then load the SysEx-file containing the new firmware.

### PC - MidiOX ([www.midiox.com](http://www.midiox.com))

Settings:

- start the software
- go to Options>MIDI Devices...
- select your MIDI output and click OK
- go to View>SysEx...
- in the new window go to SysEx>Configure
- enter the following parameters



To send the SysEx data, go to the SysEx window (from the main window: View>SysEx...) and then select Command Window>Load File...

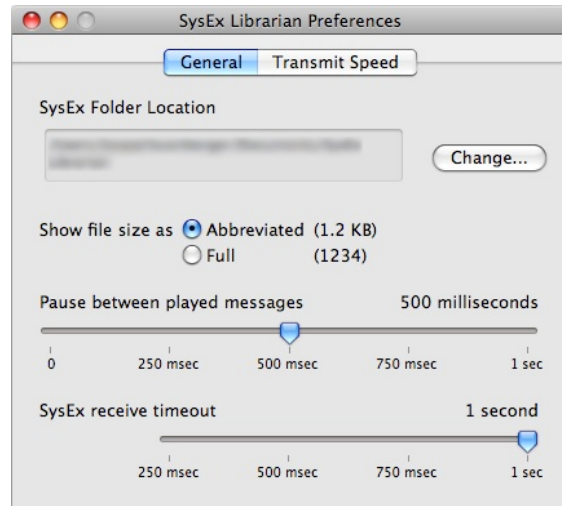
After you opened the new firmware file, select Command Window>Send SysEx

The status LED should start blinking until the upload process is finished. When done, restart (power off/on) the ShuffleBox to deactivate the bootloader.

### Mac - SysEx Librarian ([www.snoize.com](http://www.snoize.com))

#### Settings:

- start the software
- go to SysEx Librarian>Preferences...
- enter a value of about 500 milliseconds for 'Pause between played messages'
- in the main window, select your MIDI interface (Destination)



To upload the SysEx data, click Add... and then select the firmware and click Open. The firmware is now listed in the program's library. Select it and click the Play button on the top (don't forget to select the right MIDI port).

The status LED should start blinking until the upload process is finished. When done, restart (power off/on) the ShuffleBox to deactivate the bootloader.