THIS PAGE IS UNDER CONSTRUCTION !

Intro

This page describes the MIDI-Channel-Mapper device, which can route input channels of a single hardware input to output channels of a single hardware output in any way you want. The device's user interface is designed to allow switching the routing of some channels while performing, leaving other routings untouched.







Features

- One MIDI hardware-input
- One MIDI hardware-output
- Four “screen” - buttons (preset / bus / input / output)
- 16 “value-buttons”
- ultra-flexible channel mapping (merging / splitting etc.)
- designed to manipulate routing while playing

Skills / Equipment Required

- Preparation
- Soldering

Harware

What modules do I need?

- Core Module
- Bankstick Module

- DIN Module
- DOUT Module

List of parts

- 1x MBHP Core Module
- 1x MBHP Bankstick Module
- 1x MBHP DIN Module (just 3 SR IC's will be used)
- 1x MBHP DOUT Module (just 3 SR IC's will be used)
- Labor board with rows for buttons board & bankstick
- Power input jack
- 2 MIDI-jacks for MIDI-in and MIDI-out
- Litz wire
- Power-switch with backlight
- 20 buttons with built-in LED's
- Housing
- 7-10V Power supply (AC or DC), > 700mA

Where to buy Parts

Connections

Connect the buttons / LED's to DIN and DOUT module like shown in the following table:

Button / LED	**button to MBHP**	**LED to MBHP**
Preset	DIN J3 (SR 1) D0	DOUT J3 (SR 1) D7
Bus	DIN J3 (SR 1) D1	DOUT J3 (SR 1) D6
Input	DIN J3 (SR 1) D2	DOUT J3 (SR 1) D5
Output	DIN J3 (SR 1) D3	DOUT J3 (SR 1) D4
Value 1	DIN J4 (SR 2) D0	DOUT J4 (SR 2) D7
Value 2	DIN J4 (SR 2) D1	DOUT J4 (SR 2) D6
Value 3	DIN J4 (SR 2) D2	DOUT J4 (SR 2) D5
Value 4	DIN J4 (SR 2) D3	DOUT J4 (SR 2) D4
Value 5	DIN J4 (SR 2) D4	DOUT J4 (SR 2) D3
Value 6	DIN J4 (SR 2) D5	DOUT J4 (SR 2) D2
Value 7	DIN J4 (SR 2) D6	DOUT J4 (SR 2) D1
Value 8	DIN J4 (SR 2) D7	DOUT J4 (SR 2) D0
Value 9	DIN J5 (SR 3) D0	DOUT J5 (SR 3) D7
Value 10	DIN J5 (SR 3) D1	DOUT J5 (SR 3) D6
Value 11	DIN J5 (SR 3) D2	DOUT J5 (SR 3) D5
Value 12	DIN J5 (SR 3) D3	DOUT J5 (SR 3) D4
Value 13	DIN J5 (SR 3) D4	DOUT J5 (SR 3) D3
Value 14	DIN J5 (SR 3) D5	DOUT J5 (SR 3) D2
Value 15	DIN J5 (SR 3) D6	DOUT J5 (SR 3) D1
Value 16	DIN J5 (SR 3) D7	DOUT J5 (SR 3) D0

Other connections

power supply jack	power switch
power switch	core module J1 (not polarized)
power switch backlight	Core Module J2 (polarized!)
DIN / DOUT J1	Core Module J8 / J9
Bankstick	Core Module J4

See the MBHP documentation to learn how to exactly connect DIN/DOUT/Bankstick to the core module.




Enclosure / Case

The Case used is a standard case from a local case manufacturer (http://www.jaegerag.ch). The bottom plate is metal, the top metal plate is just a thin cover, which is layed over the plastic top.






Enclosure References

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Software

Setting Up

PIC's must be setup with MIOS bootstrap Loader and MIOS before an application can be uploaded. If you purchased you PIC from SmashTV or Mike's PCB Shop these will already installed.

We recommend you read the following before you continue:

- Setting up PIC's and your PC
  - Burning Bootloader
  - Core Tools
  - Additional tools

Download

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links
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Setup Instructions

```
up to you
```

Extra

usage manual

```
+ anything else
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