

MIDIbox DigiRoland Project

Introduction

The Midibox EuRoland project aims to be a **4U Re-Edit of Analog Drum Parts of Roland TR Drumachines** designed to fit in the Eurorack size Format, to be driven through MIDI or CV.

It's the Merging of these projects:

- [MB-606RE](#)
- [MB-808RE](#)

Community users working on it

- [Phatline](#)
- [Psykhaze](#)
- [Antichambre](#)

Getting Involved ?

Just let a Private message on the forum to users already involved

General Design

2 Cases of use :

- **1. Midi-Interface:** Use the MB-Modulbox Standardmodules, for Digital UI and CV+Trig-Generation
- **2. Analog Interface:** Just Plug CV or Trig Jacks into the Analog Modules...without Midibox.

Workshare

606

BD+SD > [Psykhaze](#)
CY+HH > [Phatline](#)

808

BD, SD, TOM > [Psykhaze](#)

CY, HH, COWBELL > [Phatline](#)

909

BD, TOM, SAMPLER-Voices > [Psykhaze](#)

SD, RIM > [Phatline](#)

Configuration

MIDI Use

MB-Modulbox Main PCB UI

Access to System-Settings, Channel, NoteNumbers

CV+Trig Out-Jacks for Euroland Drum Modules

MB-Modulbox 8xPotentiometer Module

When using the Euroland Modules via Midi, then there are some Performance Parameters available:
All Functions have effect on all 8 Voices @ once.

- **1.Velocity Offset** (-+64 > with Center Position = normal)
- **2.Velocity Kill depending Note Kill** (-+64 > with Center Position = normal > Full Spectrum)
- **3.Random Kill** (0=full Kill, 127 no Kill, Normal Position > 127)
- **4.Velocity 2 TriggerLength** (-+64 > with Center Position = normal 10ms, turn right:time inc by velocity in%, turn left:decrease%)
- **5.Accent:** (0-127-normal 127)
- **6.—:** could be something like Roll
- **7.—:** not used, could be something like a Accent for a Group of CVs
- **8.—:** not used, could be something like a Accent for a Group of CVs

accessible via MB-Modulbox 8xPot - PCB. Just plug it in, and activate the AIN-Port in MIOS

MB-Modulbox 8x8 LED-Button-Matrix

Set CV + Trig Routing (some kind of trigger matrix), standard is 1:1 routing, so no need for this if you use a fixed setup.

Analog Use

Here are only the Analog-Drum-PCB discussed, since all other Digital UI is based on MB-Modulbox Standard Modules, the MB-Modulbox Main PCB2 is special Variant, described here.

Software Tools used

- **Inkscape Vector Drawing Software** - Front panel Concept Drawing
- **KiCAD PCB** - PCB Design | **KiCAD Libraries**
- **Code::Blocks Integrated Development environment** - MIOS programming

Eurorack Relative

- **Eurorack Design 3U Height** = $5,25''=133mm$ -rails=**128,5mm** .
- **Modules Frontpanels are 8HP-multiple wide** ($8HP=40,3mm$) see **Eurorack Specification**.
Frontpanel back spacers glued with JB-weld to avoid front screwing. **Eurorack Templates PDF** | **Eurorack Templates DXF**
- **PCB Size is 100mm height** To stay compliant to **Eurocard Specification**

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