

# 16th fixed PolySequencer



[beta in action - youtube](#)

## Specs ?

### 4 Midi-Channels: 1 2 3 4

- 2 Tracks a Channel
- 8 Notes-Chord a Track
- each track has a dedicated and changeable loop-length from 16 to 512 Steps (example for 4-4)
- each Track can played single and booth tracks can be played simultan/in-dual
- each Track record/playback PitchBend, the right one of a Track-Couple is the Pitchbend we hear
- when the right one is muted & the left track is unmuted = the left tracks PitchBend is what we hear...
- so you could play a chord @left-track, and while you record or play new notes left or right, both notes getting PitchBended by the right tracks Pitchbend

### Fixed Velocity @ 127

- no Keyboard-Velocity-sense [Triggermatrix](#) does the job of sensing drum trigger in order to re-trigger the moldy buffer

### 16th fixed note-trigger-rate

- puts out note-data in 16rate (in order to provide a steady note stream for [Triggermatrix](#))
- a connected [Triggermatrix](#) (allows not only 4-4, all other things like 5-4 are possible!)
- [Triggermatrix](#) does the job of melody-rythm-re-triggering}

### 128 Songs saved on SD-Card

- Load-able while playing - when the beat-structure is the same
- each song provide 4clips on each of 8tracks = 8x 4clips x128Songs = 8x512clips a track = 4096clips saved on SD-Card
- so 4x

## the Midi-System-Setup

-fixed/hardcoded (Midi-Ports, Midi-Channels))

### **MidiPort 32-in:**

-Midi-Clock-Source, Start-Stop, ProgramChange @ MidiChannel 1

### **MidiPort 33-in:**

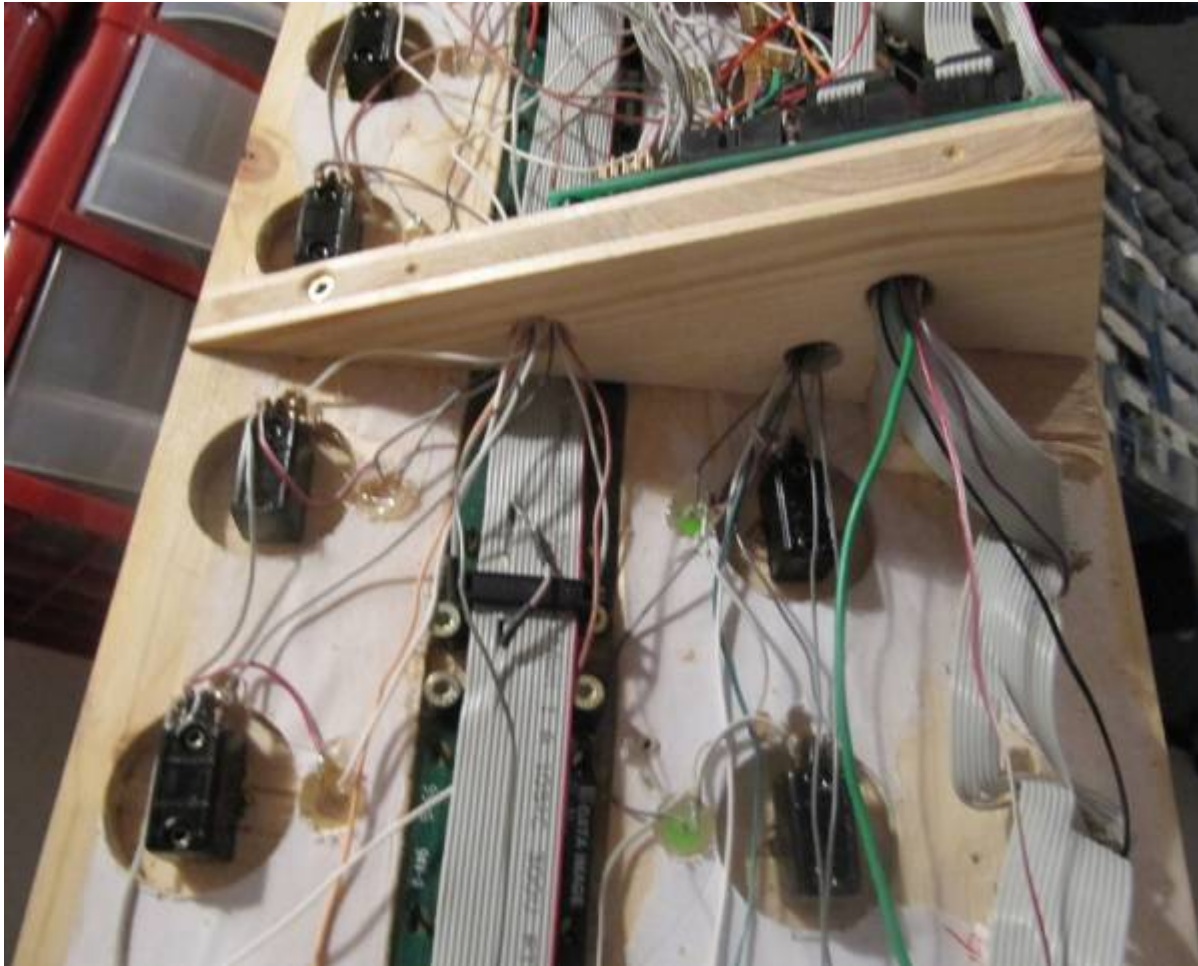
-connected to a Midikeyboard @ MidiChannel 1

### **MidiPort 33-out:**

-connected to [Triggermatrix](#) -Melody-In-Port, or a poly-synth)

## **Footboard-Interface**

- Footboard/old Pulp-Radio-like wiring!
- 2x8 Foot-Tactical-Buttons + 2xBank-Tactical-Buttons
- 2x8 LEDs to Display Foot-Buttons-Status
- 2x4 Bank indication Leds
- 2x Foot-Tactical-Button-Banks
- [CORE32 STM32F4](#)
- [3x LCD with 2x40-Signs, to display Chord-Notes, for sequenced notes and keyboard-inut-notes](#)
- [2x Midi IO](#)
- 8x 15Led-LedRings
- 2x DoutX4 Modules
- 1x DinX4 Modules
- cables, isolaton material, solder
- wood, Screws, Drills, Drilling-Machine, a saw for the Display-Cut-Outsl, a Fill
- M3 Distance-Stamps to mount the pcps
- SD-Card



## Code - C and HEX

so when you have those things, upload [the Code](#)

## fabricated PCB-Version

not planed!

## Community users working on it

- [Phatline](#) = Programming, Documentation, Hardware-Prototype

## Getting Involved ?

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

From:  
<https://midibox.org/dokuwiki/> - **MIDIbox**

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