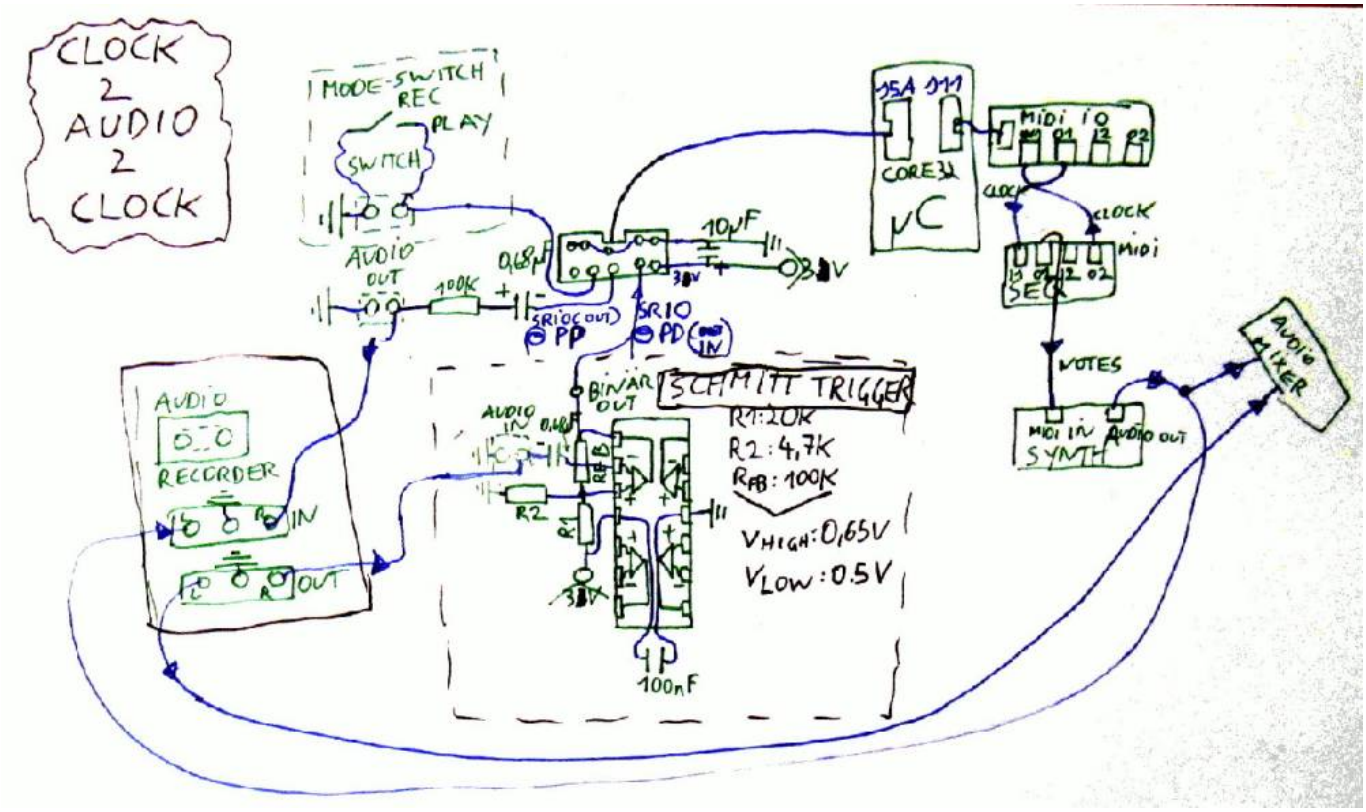
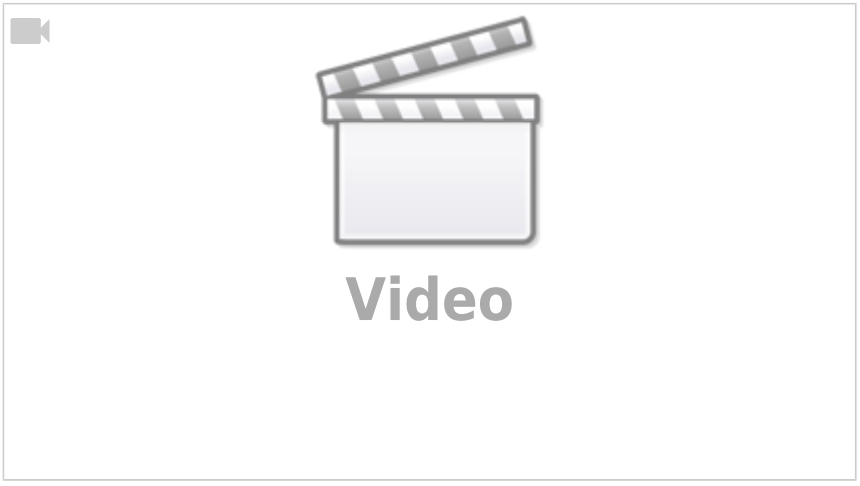
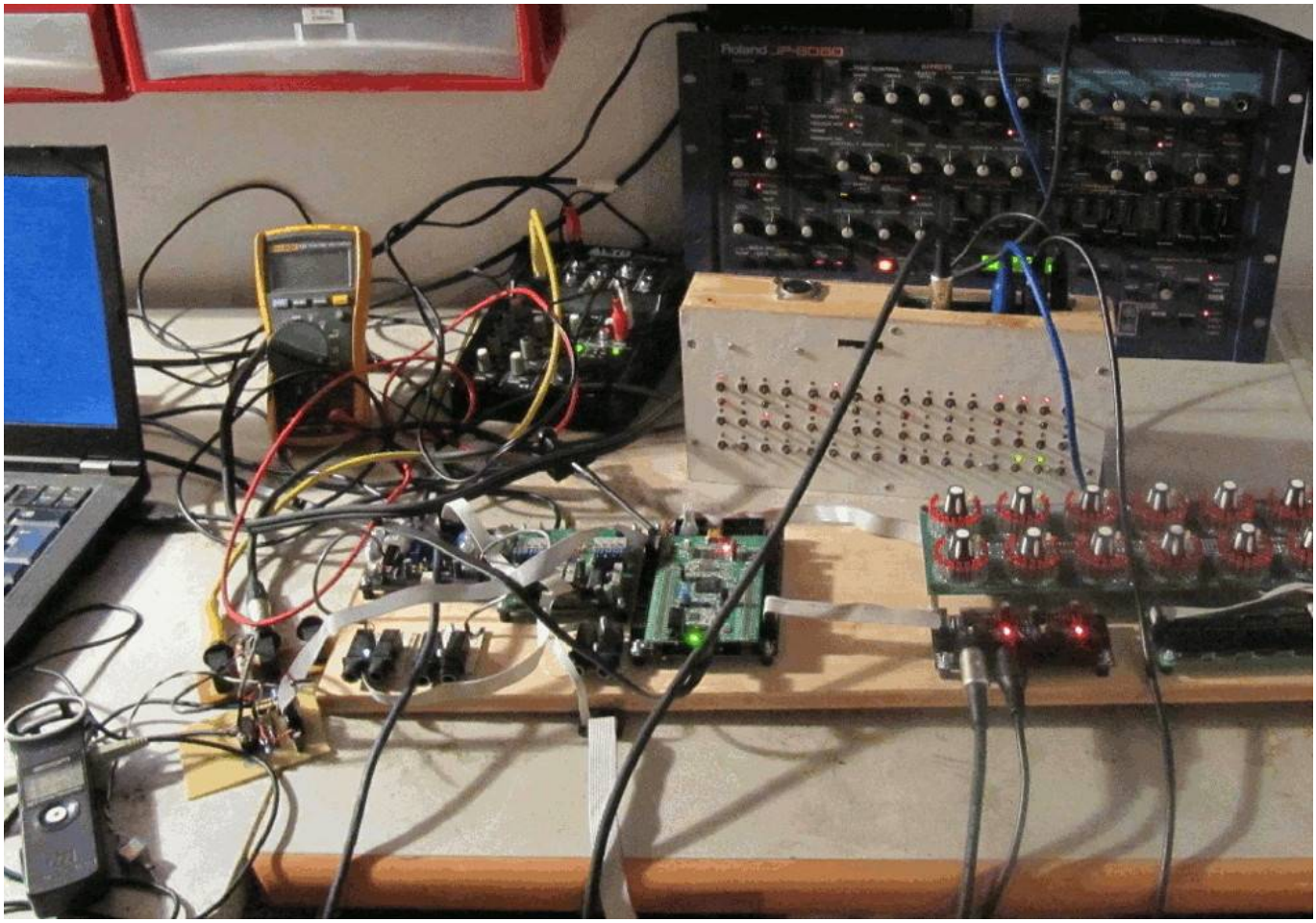
# clk2a2clk

Midiclock 2 Audio Converter, Audio 2 Midiclock Converter
4 Recording a Midiclock on a Audio-Track on your Multitrack-Recording-Device
in order to get the possibility to overdub a sequencer track on Recording Devices without Midi-Clock builtin



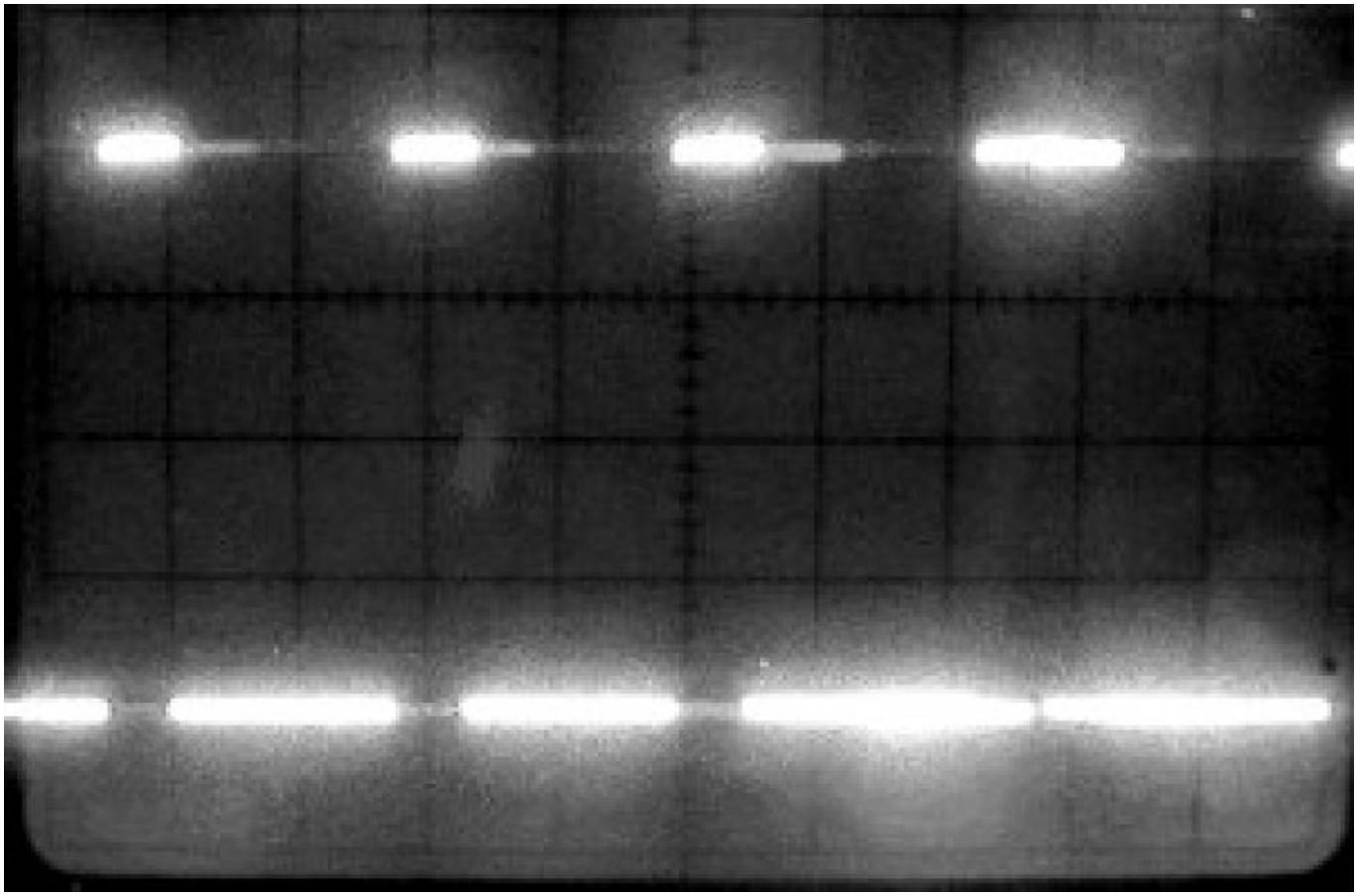





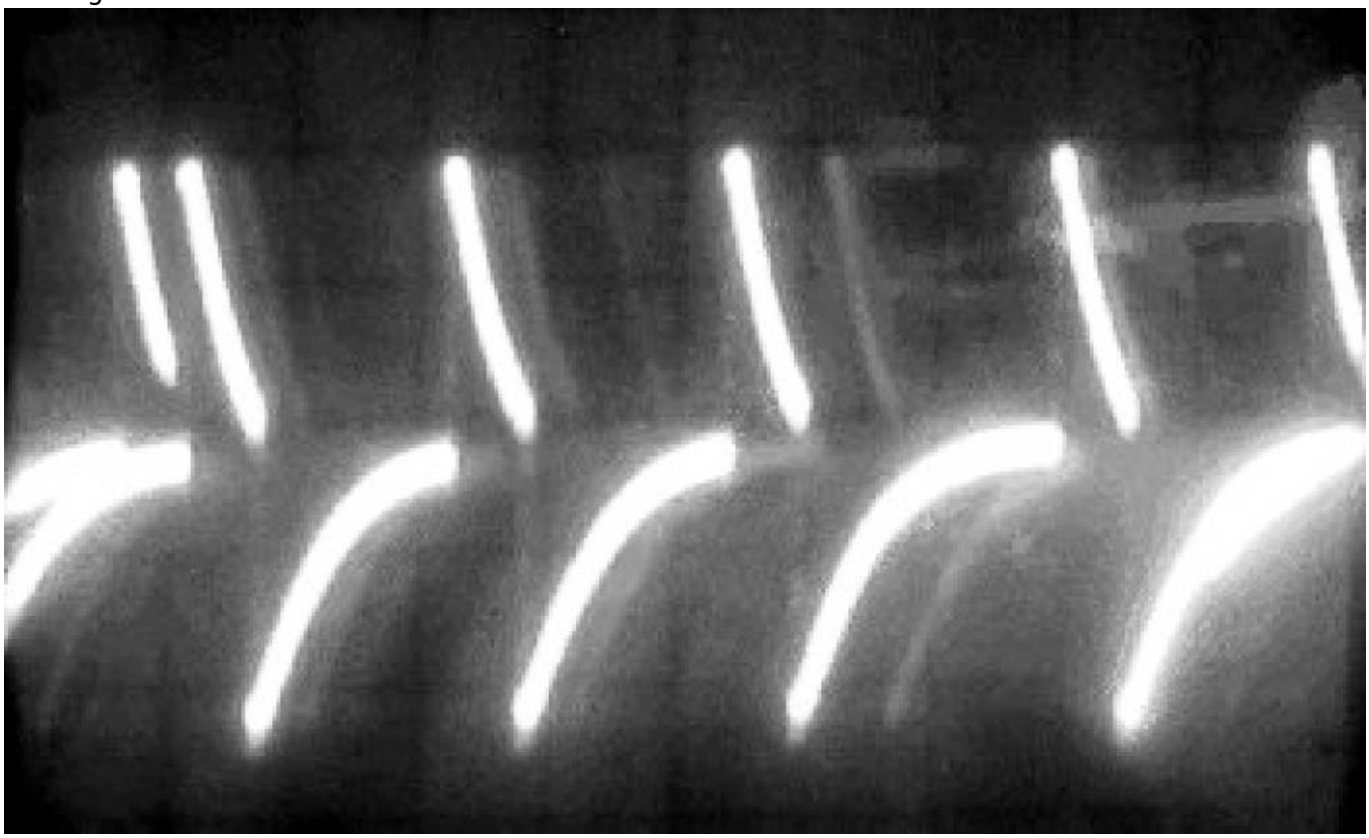
# Introduction

i fell in love with a zoom livetrack-l12, a multitrack-audio-recorder, in a compact design, severell submixes, parametric eqs, compressor, efx and a extra master-track-recording, and that for a good price…
but it doesnt have midi… in specially it does not have a midiclock.
so when i have to make a track new, or i want to overdub a track, a track that is Midiclock-Driven a sequencer track for example…

So with this device, i lose one Audio-Track, because i use this one Audio-Track, as a Click-Track, it records Audio-Rectangle-Pulses, which are a converted Midiclock-Pulses



when i then playback the Click-Track-Recording, it converts this Audio Pulses back to Midiclock-Messages.



Thats all, not much code, stripped down, running thight.

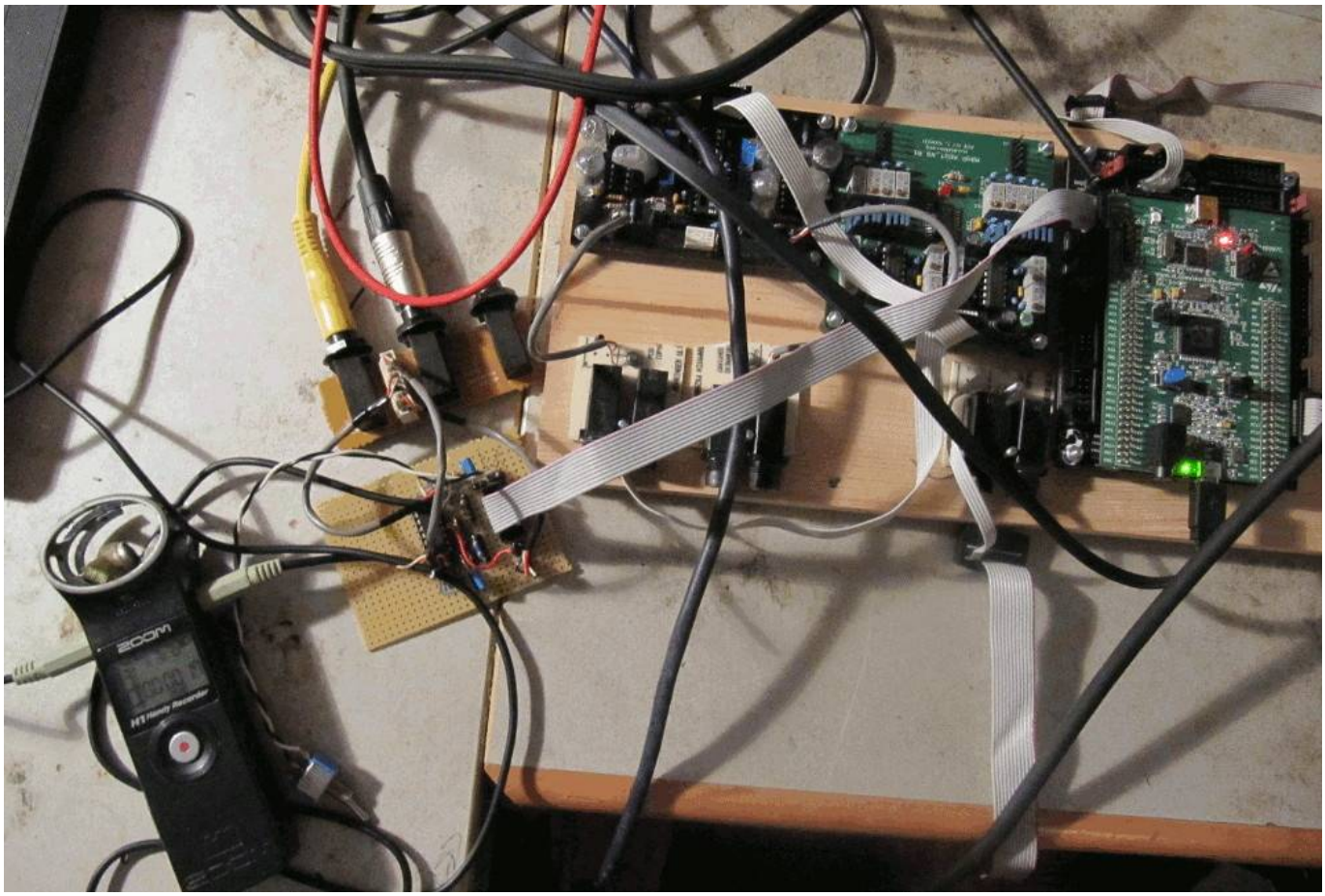
### Features

- **convert Midi-Clock-Data to Audio-Pulses**
- convert Audio-Pulses to Midi-Clock-Data

# Hardware Requirements

**External Requirement:**(for example)

- Clock Source aka Sequencer: midibox_seq_v4l
- a Synth: JP8080
- a Multitrack-Audio-Recorder: Zoom Livetrack L12
- 3x Midi-Cables




**Midibox:**

- core32
- 1xMidi IO
- Soldering Iron, Wires, PCB....
- USB Power Supply

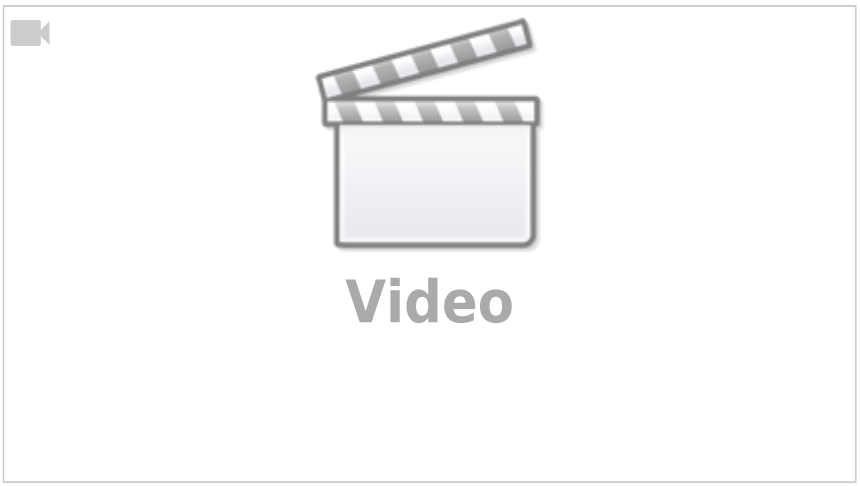
**Schmitt-Trigger:**

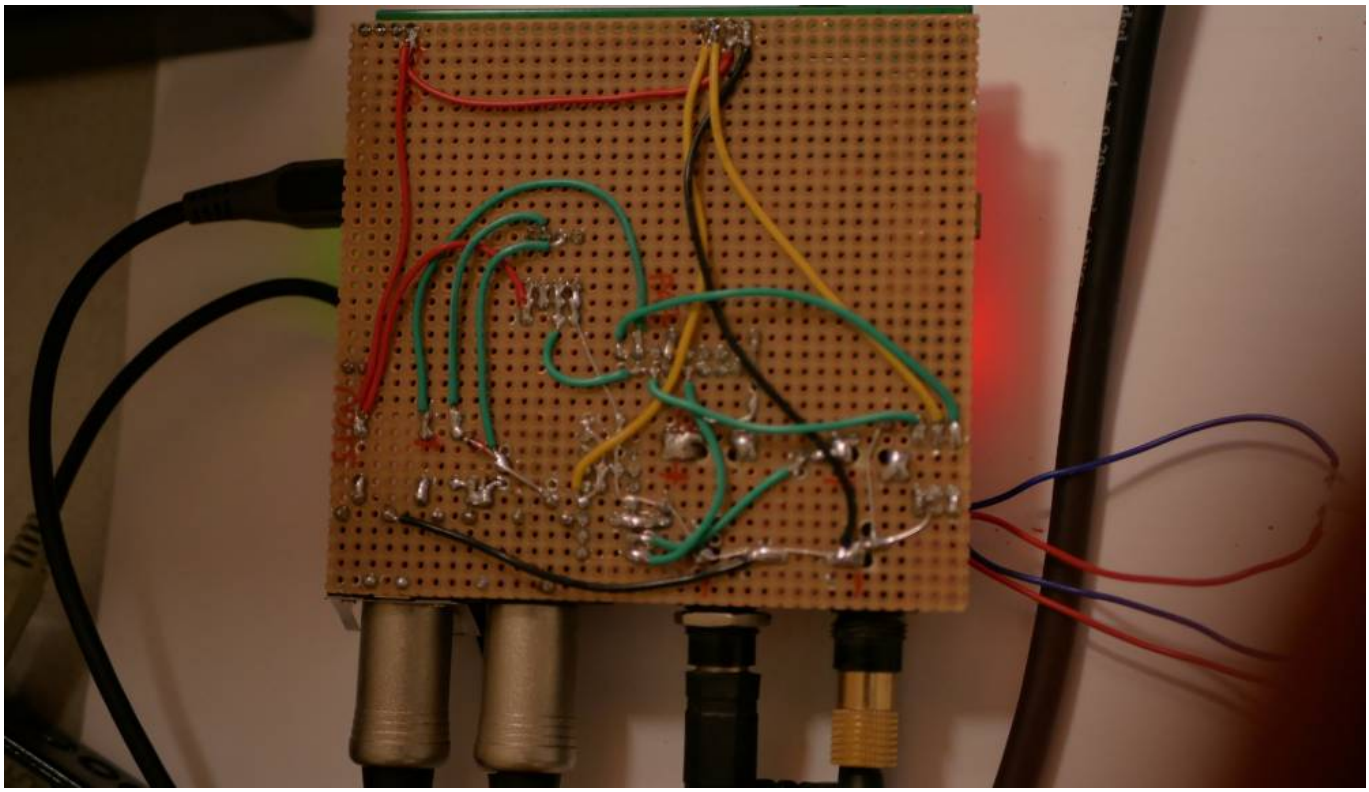
- TS-274 OP-Amp
- 14 Pin - DIP-Socket

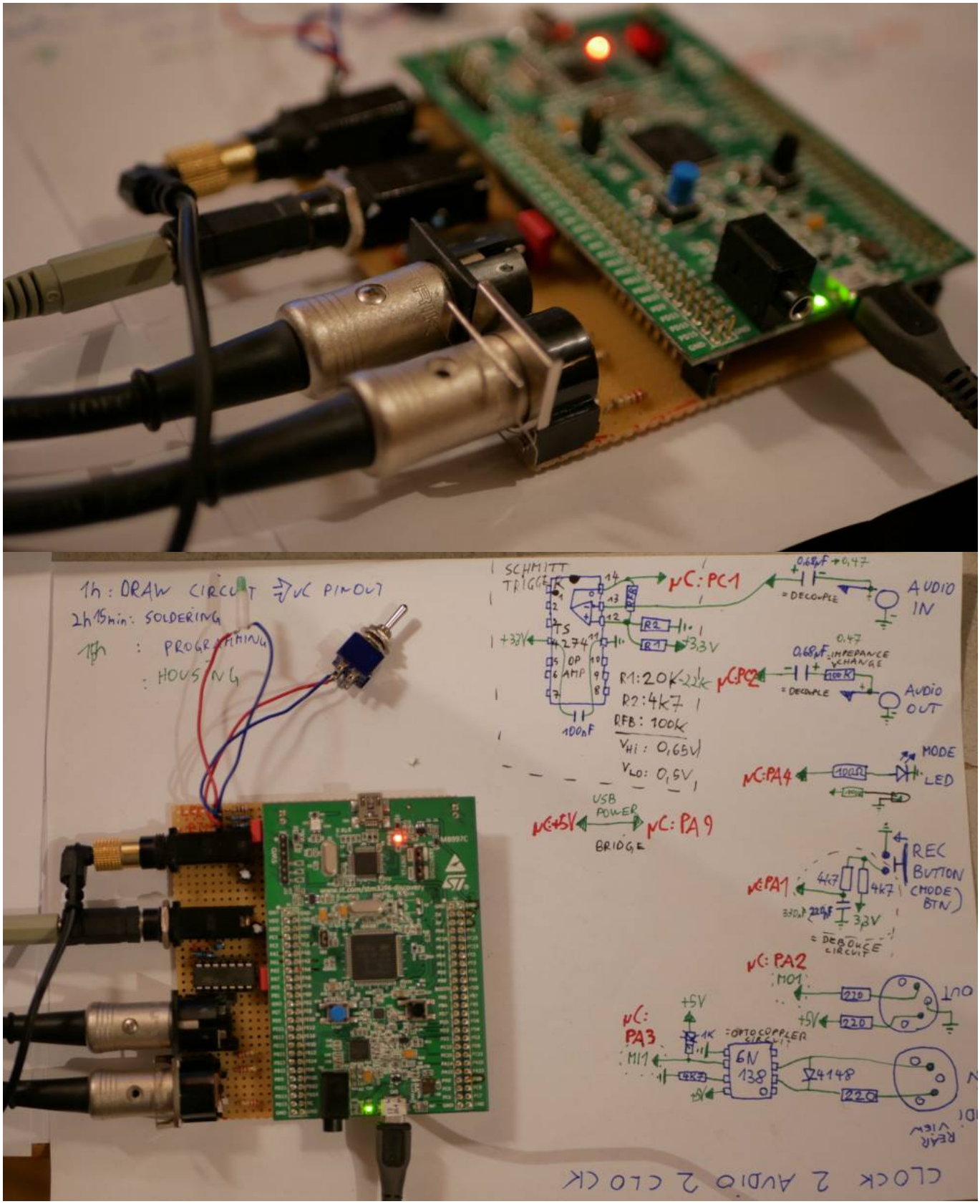
- Pin-Header 2x5Pins (to connect the PCB to Core J5A)(you will also need a cable 4 that)
- Resistor R1 20K
- Resistor R2 4K7
- Resistor RFB 100K
- Resistor for Output-Gain-Reduction 100K
- 2x Electrolyt Capacitor 0,67uF (to decouple audio in and out)
- Electrolyt Capacitor 10uF for Supply
- Capacitor 100nF to denoise the OP-Amps-Rails...
- 2 Audio Cables+Sockets for the connection to the Recorder (6,3 mono jacks)

## on Protoboard

here i have made it all on protoboard:





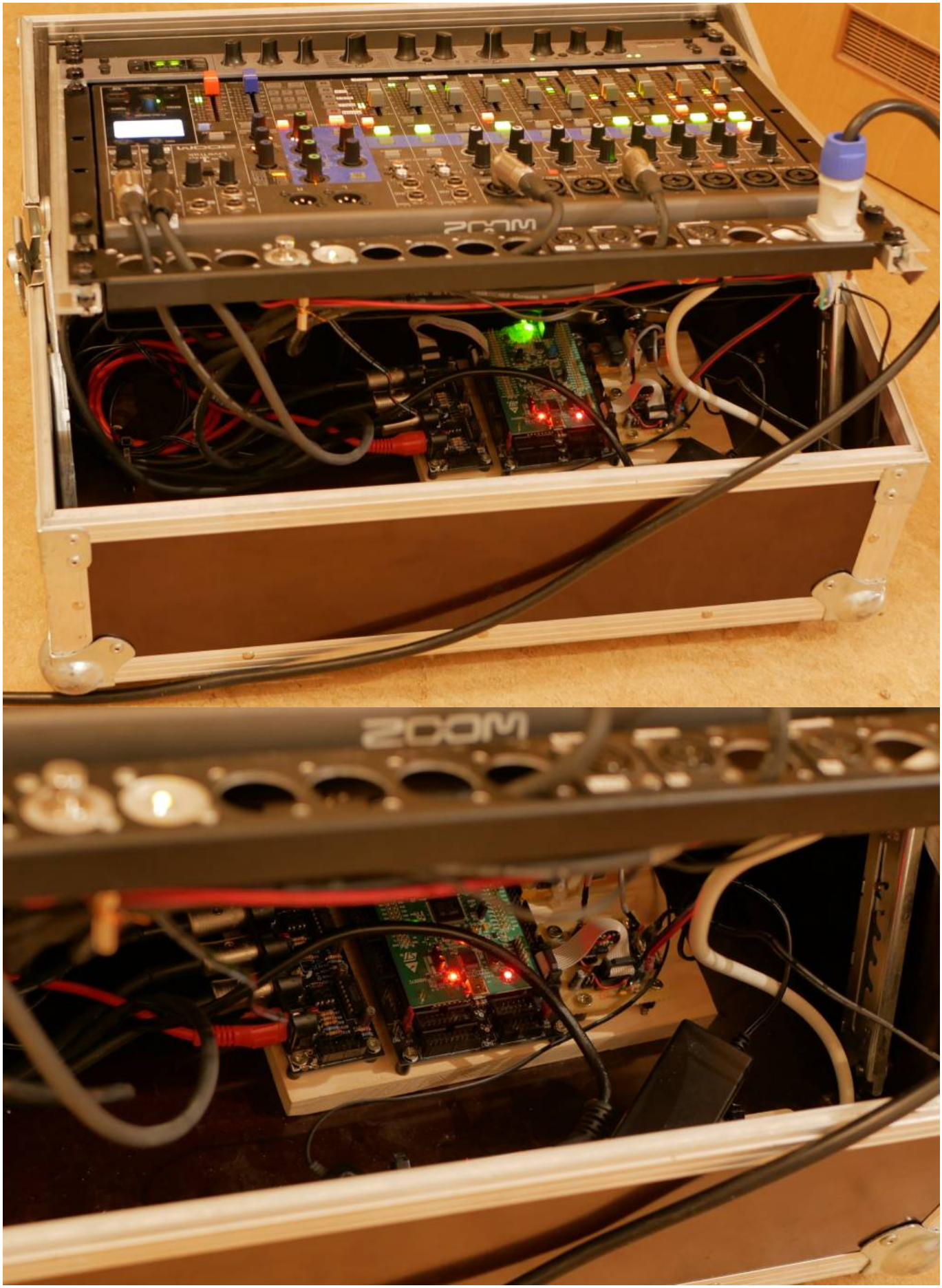

# Firmware

V1.2017clk2a2clk.zip hardcodet no menue, no nothing, stripped down to max performance

# How I Use It - built in Rack







ZOOM

## Resources

Schmitt-Trigger-Calculator

# Community users working on it

- **Phatline** = Programming, Documentation...

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

From:
https://www.midibox.org/dokuwiki/ - **MIDIbox**

Permanent link:
**https://www.midibox.org/dokuwiki/doku.php?id=clock2audio2clock&rev=1527217775**

Last update: **2018/05/25 03:09**