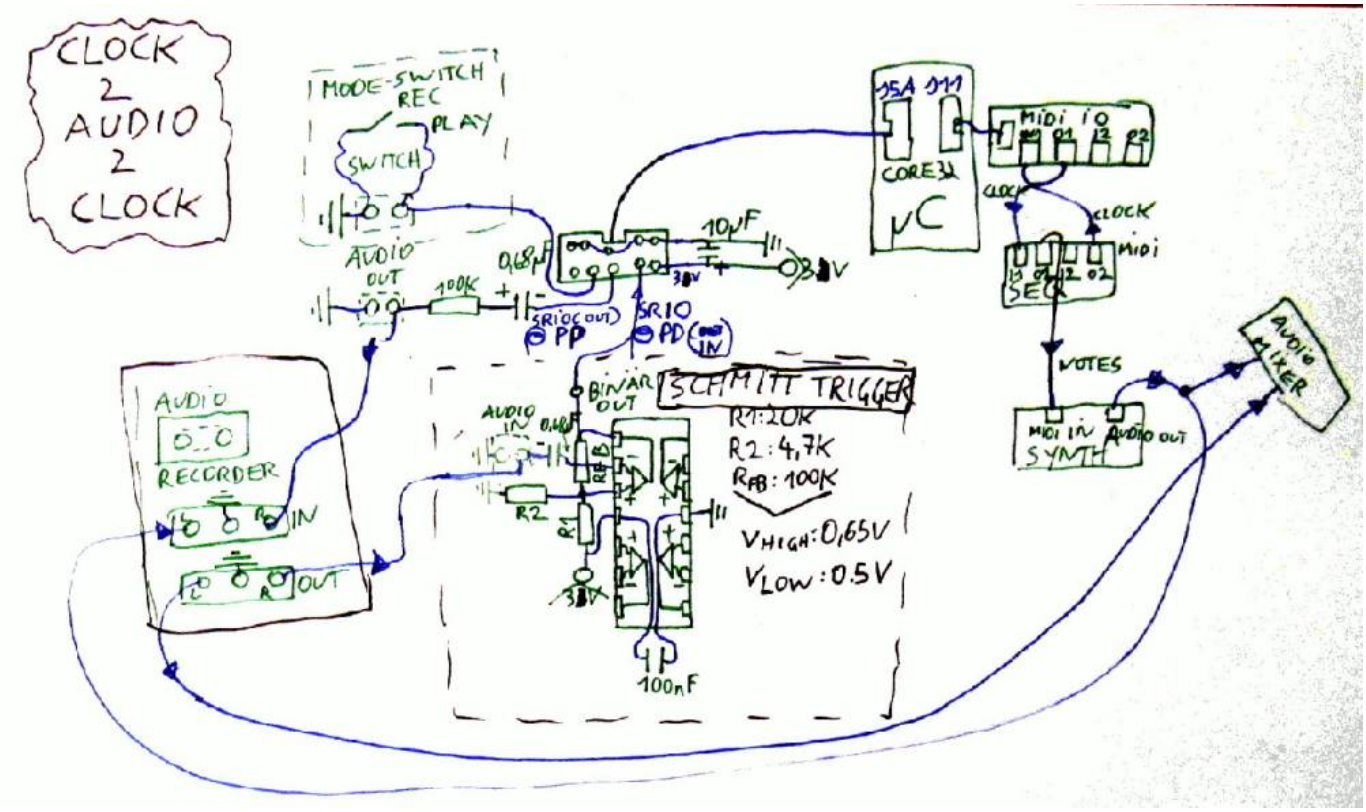
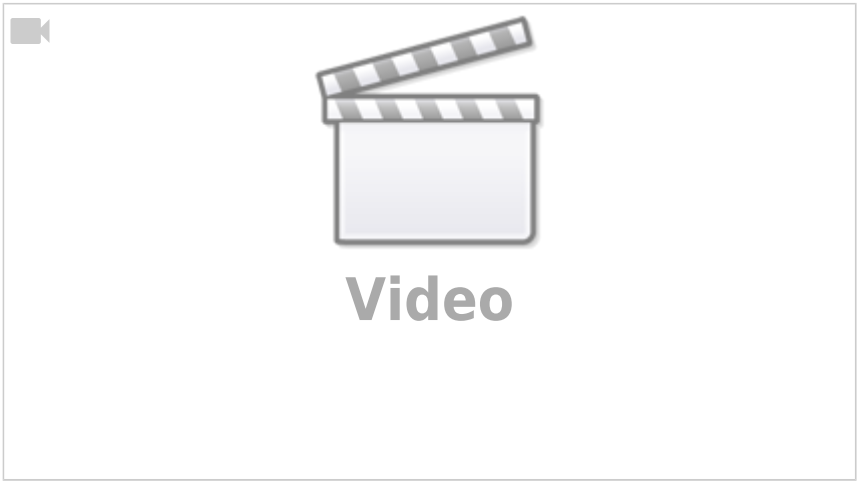
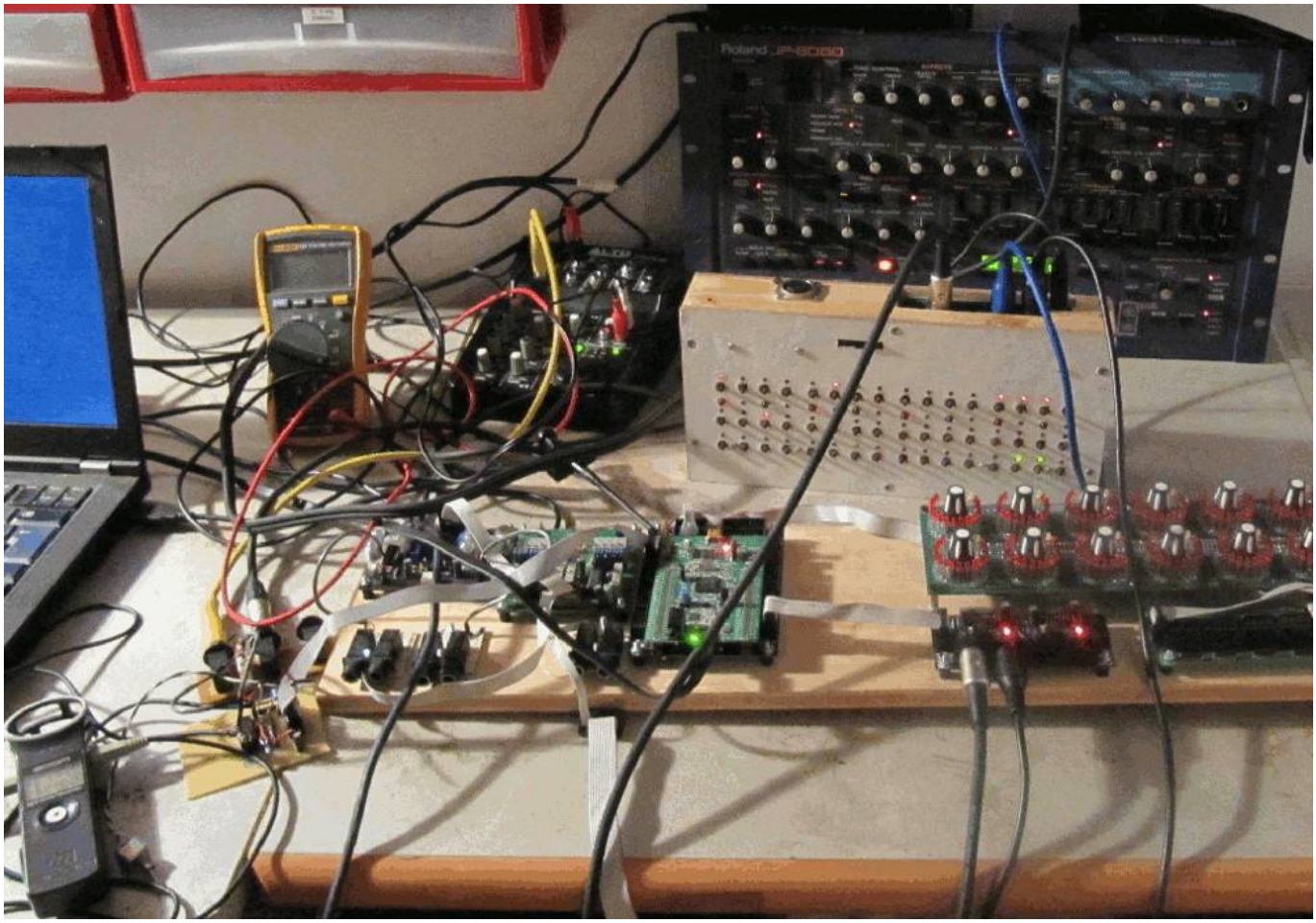
clk2a2clk

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



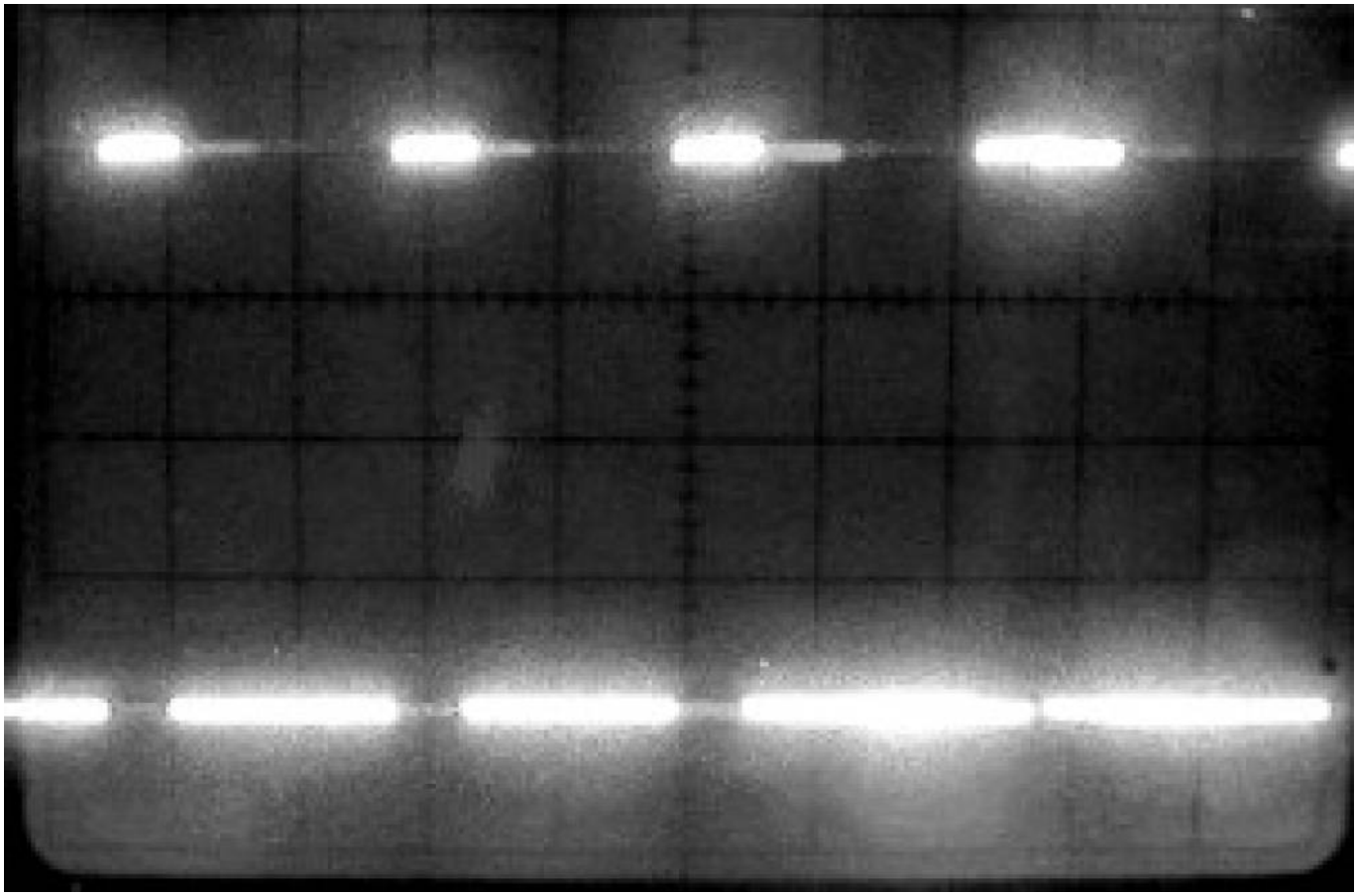




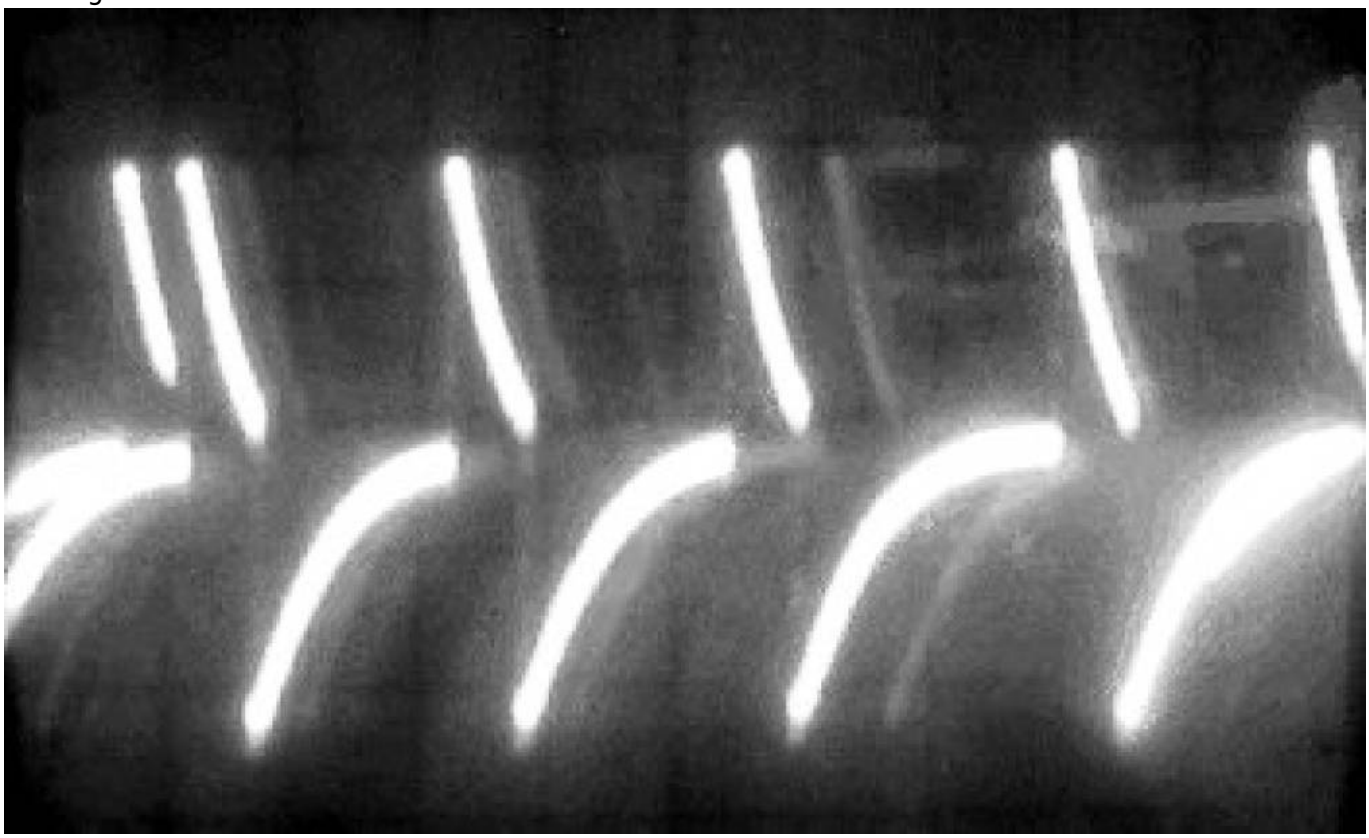
Introduction

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.

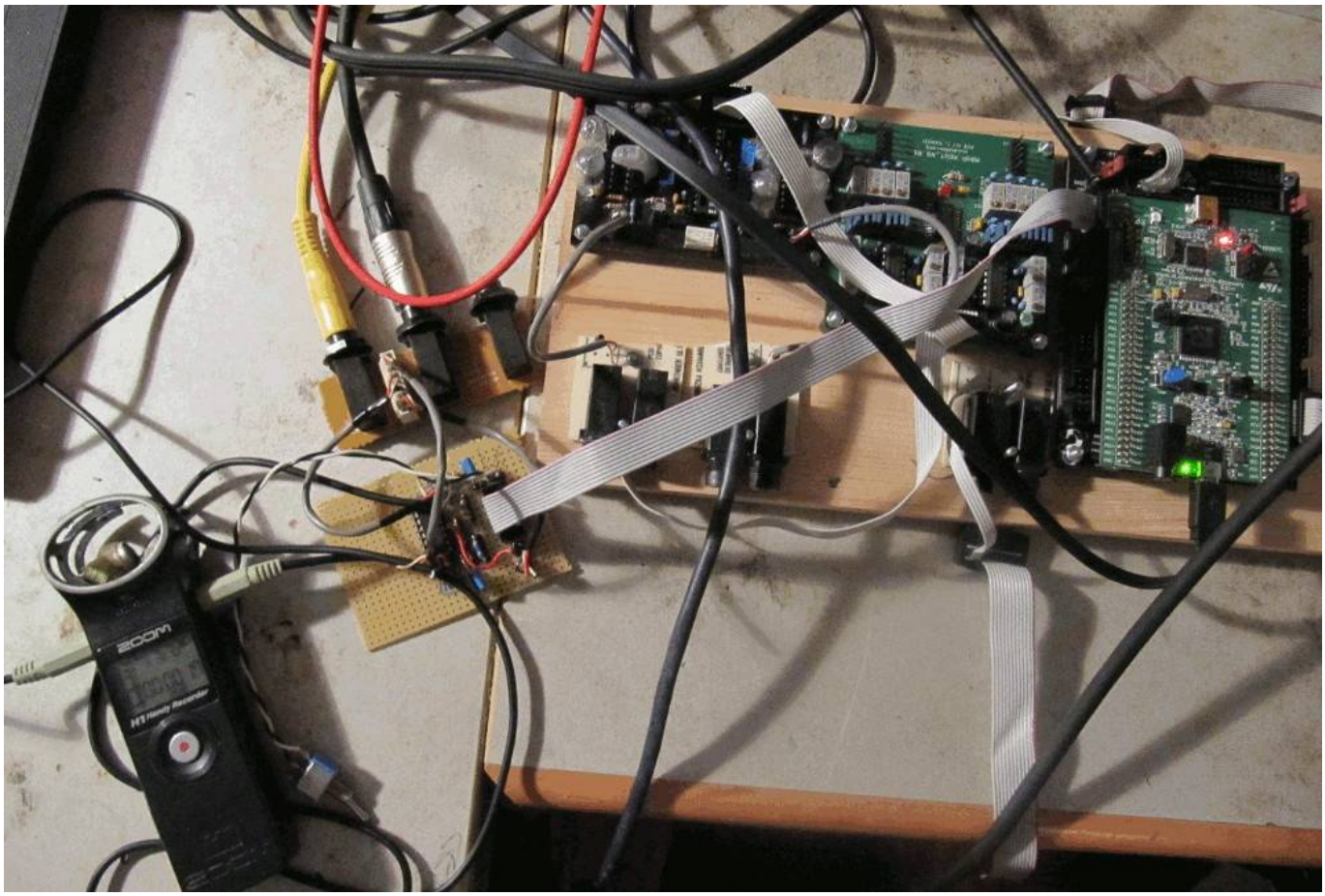
Features

- **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)

Frontpanels

MBHP

Software

Firmware

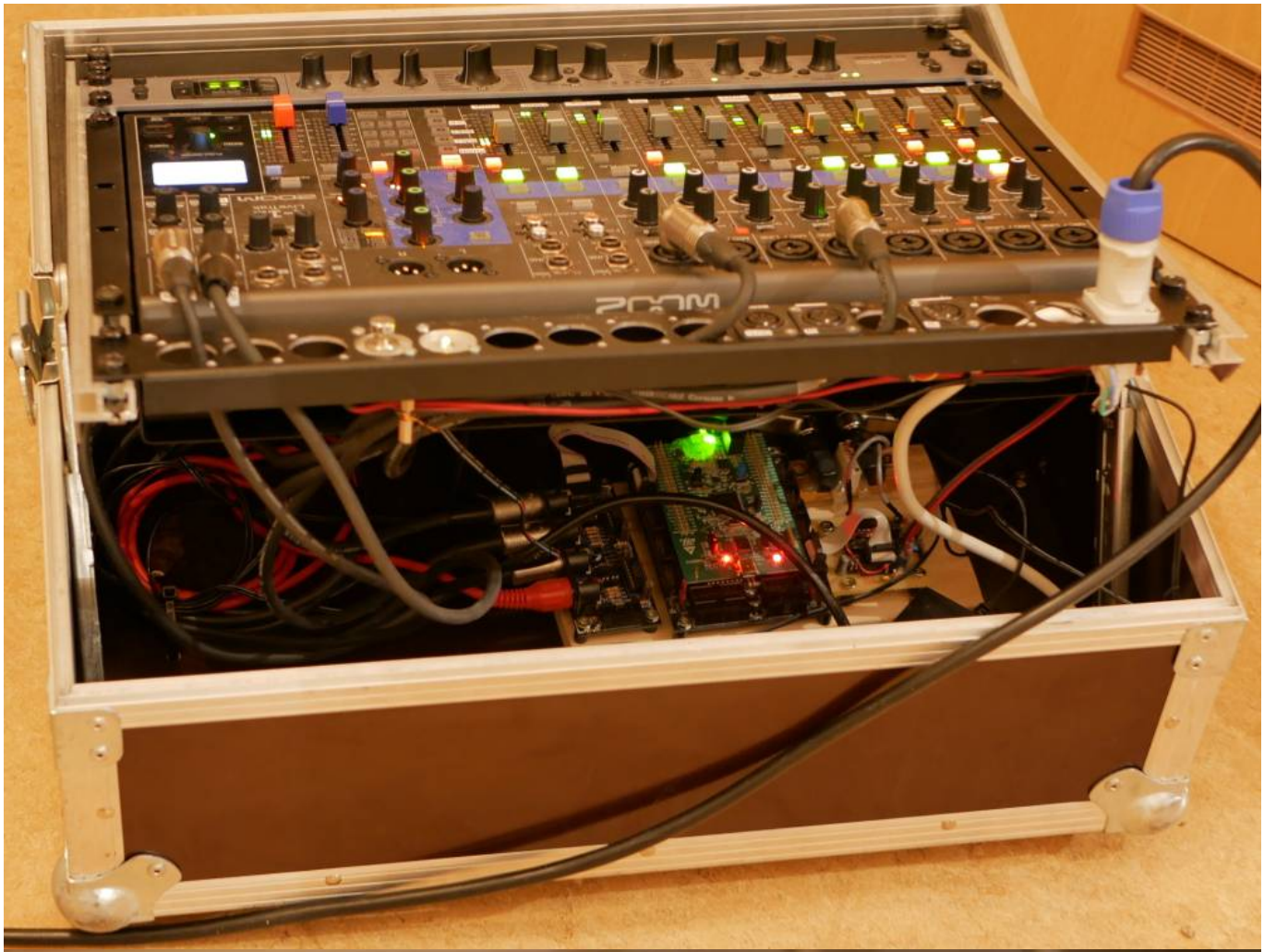
V1.2017clk2a2clk.zip hardcodet no menue, no nothing, stripped down to max performance

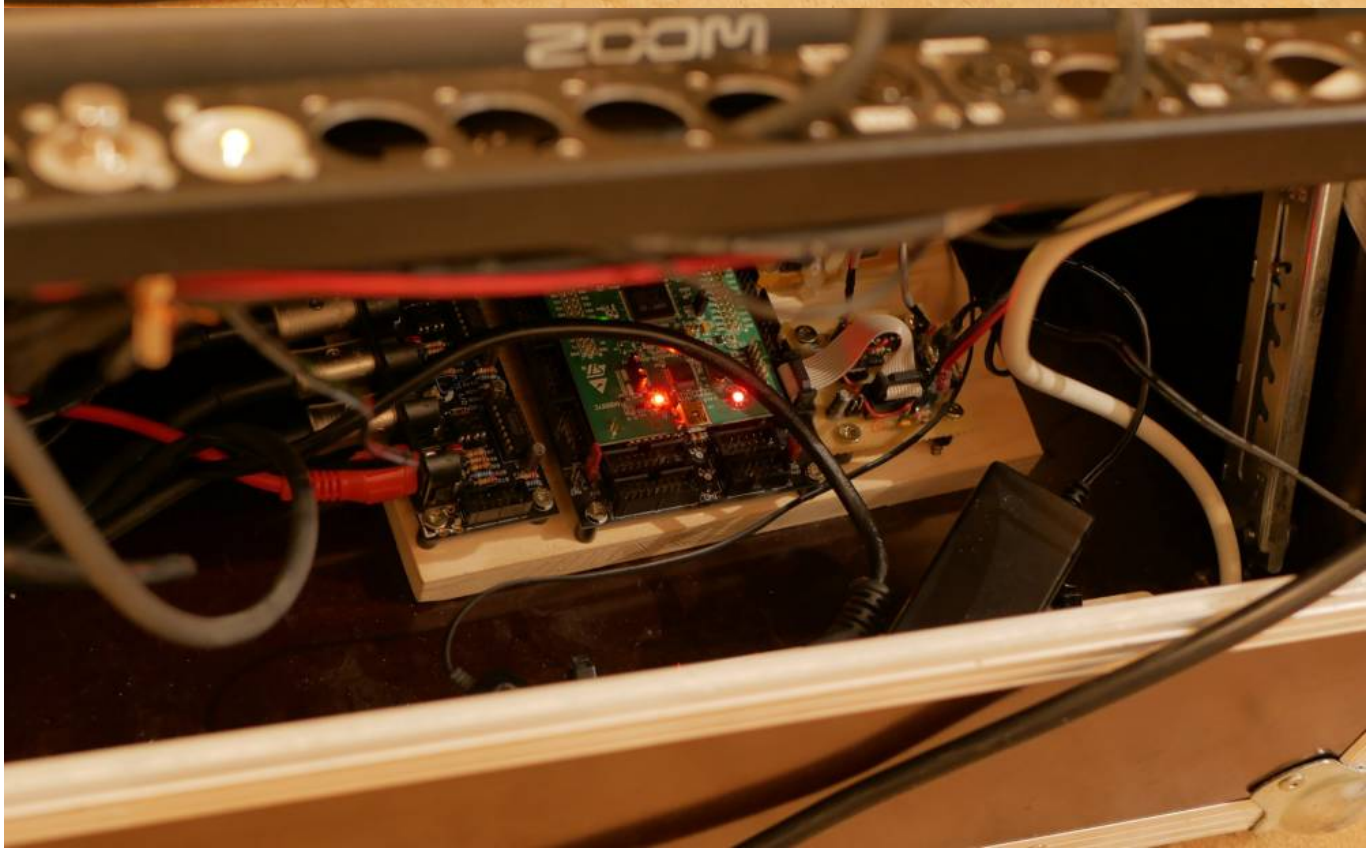
To Do

Upload Video on Youtube - with the use with a Zoom Livetrack L-12 Multichannel Recorder

How I Use It - built in Rack

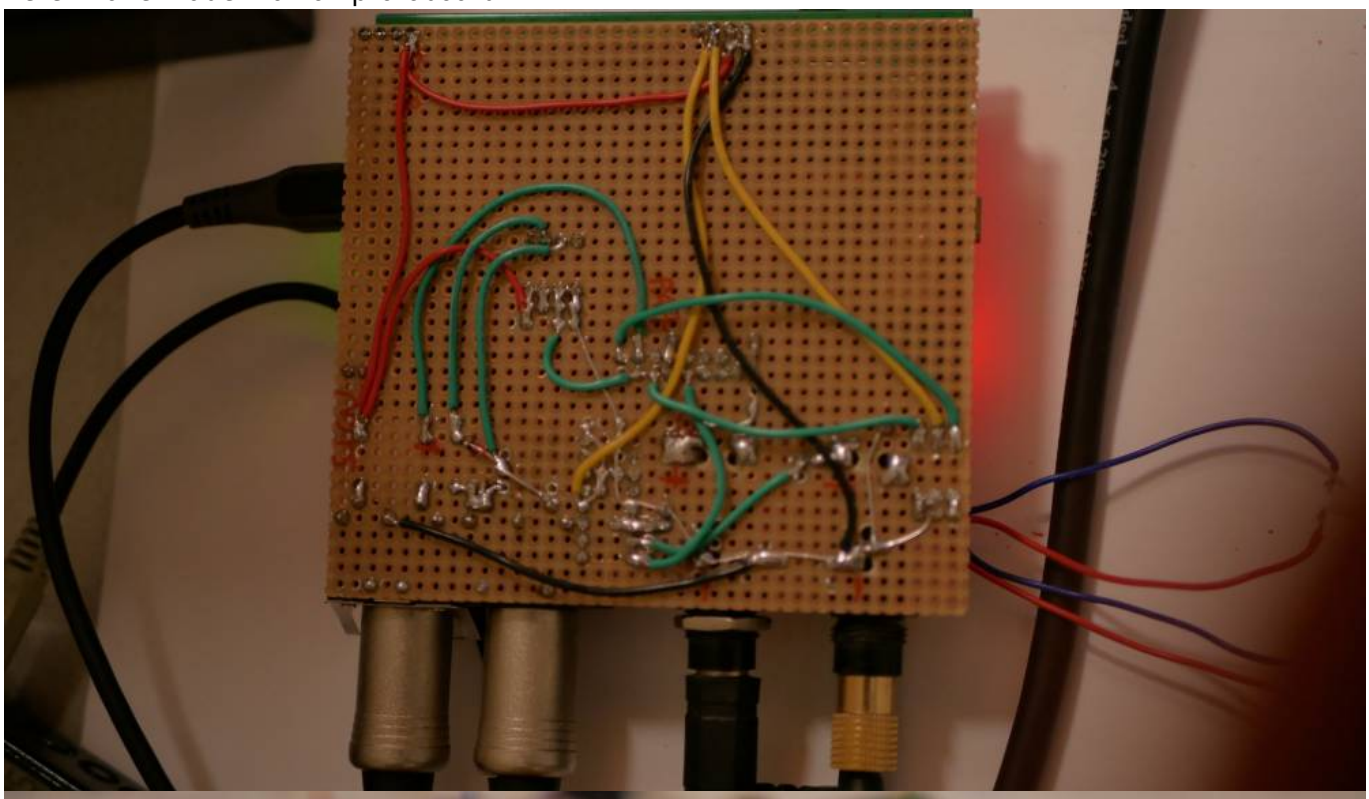

CLOCK
MIC / LINE
MASTER OUT
MONITOR OUT
CHANNEL STRIP
SEND EFX
HALL
CLOCK
L-12
LiveTrak
ZOOM

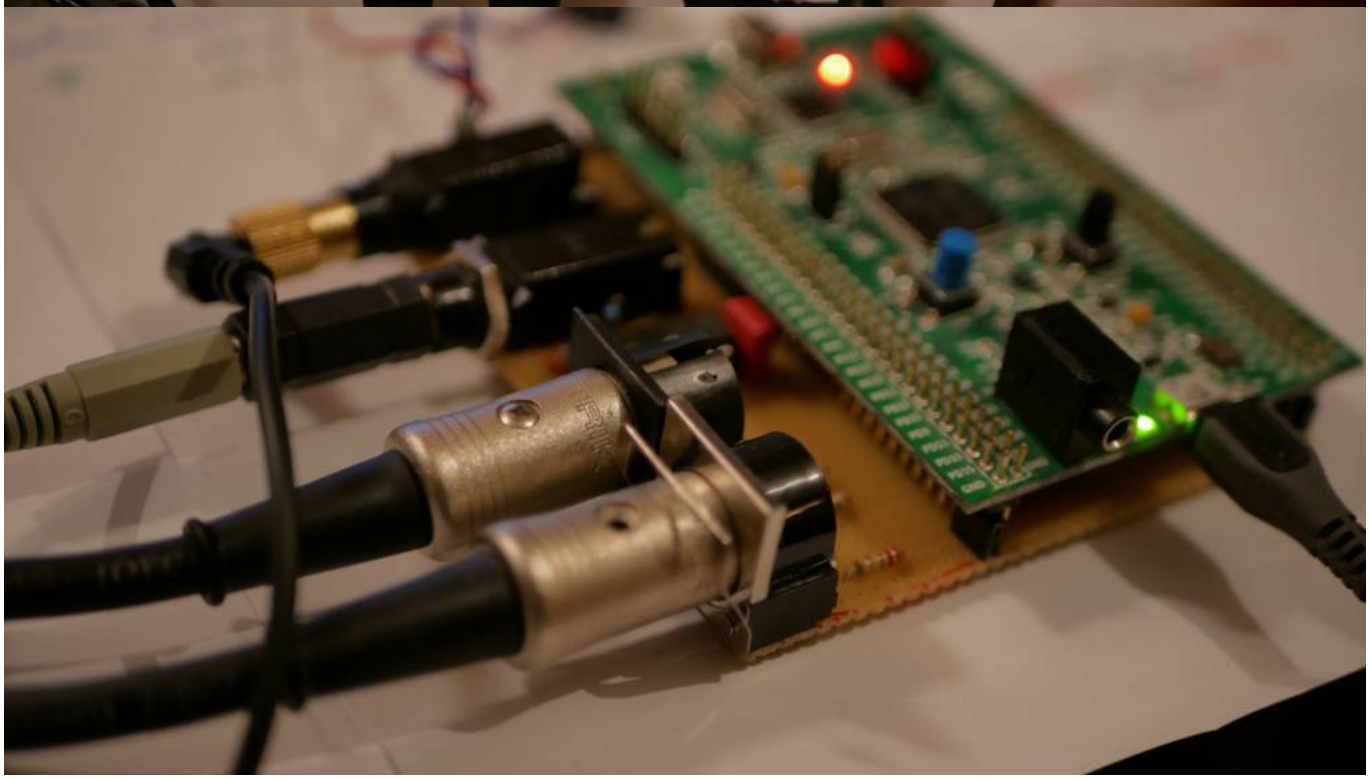

ZOOM

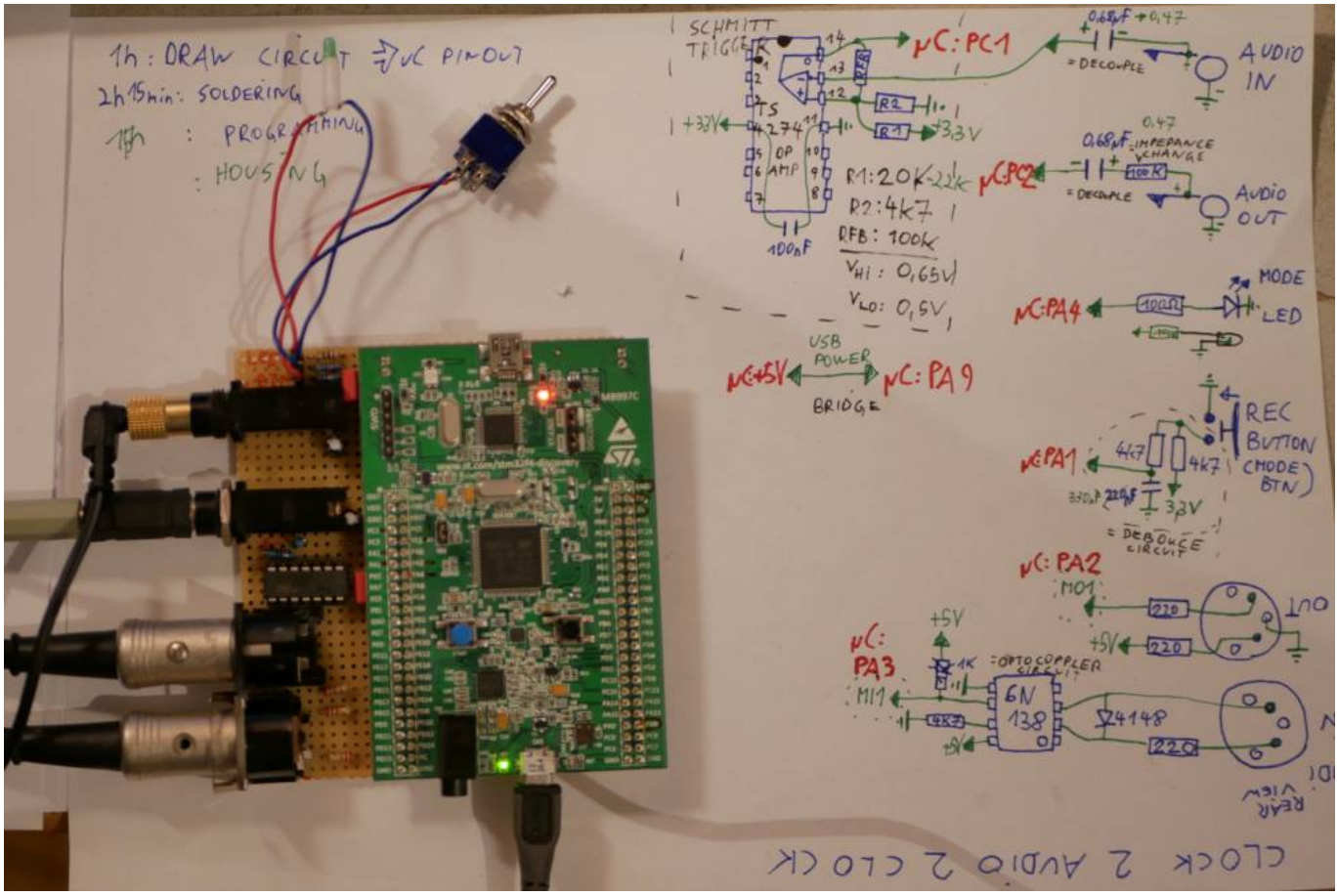

ZOOM

on Protoboard

here i have made it all on protoboard:







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=1527208122

Last update: **2018/05/25 00:28**