

# <mb909>

kiCAD design of the board 

Home made prototype, finishing now 14th of February 2012 (and it works!!!)



## Intro

This page is all about my TR909 looking sequencer. As soon as I have finished the sequencer based on the V4Seq with LPC board I will update this wiki page.

I have the first PCB's at home for a beta test.

For now you can check how it is going with the project on at: <http://synthage.com/>

you can contact me on: <http://www.synthage.com/contact/default.html>

Cheers Jef

# Features

The MB909 control surface is using the LPC core and altered SeqV4 firmware. currently the sequencer has 2 MIDI IN and 2 MIDI OUT, but this is expandable to 4 IN and 4 OUT. The current LPC core board does not have the extra MIDI's on board.

A three digit led display shows the BPM like on the original TR-909. The BPM is controlled with an encoder. A nice dogm graphical display is used as LCD

The patterns can be for example 32 steps long with 3 trigger layers (gate, accent, roll, ....) and 2 parameter layers(velocity, roll, roll2, ...)

In edit screen:

- pushing one of the 16 general purpose buttons sets the selected step to normal velocity and the led will be orange, pushing it again sets the selected step to accented and the led will be red.

In song screen:

- If multimachine is selected then the sequencer will play 4 tracks of one pattern at the same time (unless you have muted one or more tracks.
- If multimachine is not selected the sequencer will only play one track of one pattern.
- you can select the track with the track buttons or with the encoders.
- you select the bank of the pattern of the song position with the patterngroup buttons or with the encoders.

## Skills / Equipment Required

[Tools](#)

[Soldering](#)

## Hardware

### What modules do I need?

Adjust List as required:

[Core32 Module](#)

[DIN Module](#)

[DOUT Module](#)

[AIN Module](#)

[AOUT Module](#)

[AOUT\\_NG Module](#)

[AOUT\\_LC Module](#)

[IIC Midi Module](#)

Any custom modules (create link in ':mbhp:module:<your\_module>')

## Parts List

List of pots, buttons, faders and blah - suggestions on good parts and where to buy them + how to hook them up - links

[Where to buy Parts](#)

## Connections

Connection diagrams - links if needed (create in you projects namespace)

## Enclosure / Case

Enclosure ideas - link to case construction tips? / provide space to encourage other users to wikify their case designs

## Enclosure References

[Constructing Enclosures](#)

## Software

## Setting Up

We recommend you read [software](#) before you continue.

## Download

Links

## Setup Instructions

Up to you

## Extra

[Usage Manual](#)

Anything else

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