

# MIDIbox User Projects

This space is for user projects and project documentations.

Projects don't have to be finished, works in progress should also be linked here!

For a complete overview of official projects see the MBHP [Projects](#) page!

**Controllers**

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**Completed**

- [Protodeck](#) - Ableton Live Controller
- [Pedal Box / Board](#)- Expression Pedal Controller / Floorboard
- [Stukontrol](#)- MIDI Controller
- [Modulbox](#)- Modular Control Surface
  
- [Scratch controller](#)
- [Questionable](#)- DJ Controller
- [Selektor](#)- DJ Controller
- [TOS](#) - DJ Controller
- [YATK Forum Thread](#)
  
- [ACSensorizer](#) - Sensorizing controller
- [Arkade](#) Joysticks, Distance sensors, Ribbons Controller
- [MIDIboxKB](#)- C64 keyboard as input
- [VOIRINOV](#)- Akai MPD24-like MIDIbox
  
- [MIDIbox UC](#) - Universal Control: Extended SysEx Handler
- [MB-LRE8x2](#)- 16 Led rings encoders
- [msq-cc-lre](#)- 8Ch x 32CC Bank- Syntheditor with Motion Automatition and Velocity Offset from Triggers - based on 2x LRE8x2 - Nord Drum Edition
- [msq-cc-bcr](#)- 8Ch x 32CC Bank- Syntheditor with Motion Automatition and Velocity Offset from Triggers - with BCR2000 instead of LRE - Nord Drum Edition

*In Progress*

- [MB-Modulbox-NG](#) Modular Controllers
- [MB\\_OLRE16](#)- 1 row of 16 encoders with oleds and 32 segments RGB led rings.
  
- [The Thing DJ-Mixer](#)
- [Fadercore](#) - Fadermodule for Audio DAW
  
- [MIDIboxFX](#) - midifying analog gear

- [Korg Wavedrum MIDification](#)
- [Velocity converter](#)

### Synthesizers

#### Completed

- [MB-6582](#)- MIDIbox SID Synthesizer V2 using 8xSID PCB and "step C" control surface PCB.
- [MB-TWINSid](#)- MIDIbox SID Synthesizer V2 using 2xSID PCB and dedicated control surface PCB .
- [SID R8TR](#)- 3U rackmount case SID
- [MIDIbox FM V2.1](#) - A complete multitimbral synth using two OPL3s and the STM32F4 core
- [OPL3 module, modified](#) - 5V option
- [MIDIbox VGM Player](#) - Plays VGM files on up to four Sega Genesises' sound chips (YM2612/YM3438, SN76489/SN76494/SN76496)
- [Apparat 20](#) - Seppoman's MBFM & vocoder phone
- [Antix MBFM](#) - A MBFM Build by Antix
- [MIDIbox SpeakJet](#) - SpeakJet speech synthesizer
- [MIDIbox SpeakJet K64 Modul](#) - C64 Keyboard Controller for SpeakJet
- [MIDIbox TIA](#) - Atari 2600 Synthesizer
- [MIDIbox AY \(YM\) V2](#) - AY-3-891x / YM2149 Synth
- [Coresound](#) - Pic based digital synthesizer

#### In Progress

- [MB-ReSynth](#) - 4U FM/TIA/SID Synths
- [MB-DigiRoland](#) - Roland Analog Drums driven by digital Pots
- [MIDIbox Quad Genesis](#) - Up to four Sega Genesises' worth of sound chips, controlled by STM32F4 core. 4x YM2612 OPN2, 4x SN76489/94/96 PSG
- [MIDIbox SNES APU](#) - Super Nintendo APU synth
- [MIDIbox POKEY](#) - Atari Pokey synth
- [MIDIbox 3396](#) - CEM3396 based synth
- [MIDIbox SD Card Sample Player](#) - SD Card Polyphonic Sample Player

## Miscellaneous



### Completed

- [MIDIbox Mixer](#) based on PGA chips
- [MIDIbox Matrix](#) - MIDI I/Os Matrix
- [MIDI Mapper](#) - MIDI Channel Mapper
- [MIDI Master Clock](#)
- [MB Clock](#) - How to handle a realtime clock (RTC) with I2C
- [SSM2044 VCF](#) - Low pass filter board
- [clock2audio2clock](#) - Record/Playback Midiclock via Audio-Recording
- [dipCoreF4](#) - An STM32F4 Compact Core.

### In Progress

- [MB Sync24](#) - Midi clock to Roland sync24 converter
- [MB Visual Metronome](#) - Midi Metronome
- [MidiboxDMX](#) - DMX light control with Midibox
- [MBlight Mind-Machine](#) - an audio/visual brain stimulator
- [mb-scope](#) - 6ins+2sync Dual TFT Scope
- [MIDIbox Audio Matrix](#) - digitally controlled analogue audio/CV patch router
- [MIDIbox Live](#) - Complete and automatic integration of MIDIbox and Ableton Live using LiveAPI.
- [SSM2164 VCA](#) - Quad channel VCA board
- [EASY CV](#) - EuroRack-sized - 8x LFO+ENV-combi with 8AOUTChannels for VCA-VCF based Setups
- [MIDIbox 2069](#) - Based on the KORG NJM2069 Music Voicing System

## Sequencers



### Completed

- [BLM16x16+X](#) Matrix Controller
- [TPD](#) - Track Position Display
- [BLM 16x4](#) - Button LED Matrix
- [MIDIbox Arp](#) - A MBHP Arpeggiator
- [DSEQ32](#) - 32 step drumseq

- **Chaos Matrix** Oberheim Matrix 1000 Programmer
- **The HAARP** - Hardware Advanced Arpeggiator.

*In Progress*

- **Triggermatrix** - 16track Trigger-Sequencer & Trigger-router - a liveact based center of a midisetup
- **16th fixed PolySequencer** - 16th fixed 2x4track-poly-Sequencer - the poly note/melody-source for **Triggermatrix**
- **AlternativeSequencer** - Alternative ideas for sequencers
- **MB808** - 808 Clone Sequencer
- **MB909** - 909 Full Clone

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