

# m00dawg's MidiBox Projects

Yo MidiBox Peeps!

I just started working on this page, but it will be the future home of the boards and designs I have made over the course of making my own projects. You can also visit my [website](#) for stuff regarding my MidiBox projects, other hobbies, and my random blog posts about nothing :)

- [gm5x5x5\\_-\\_allied\\_parts\\_list](#) GM5x5x5 Allied Electronics Parts List]]

## Boards

All these boards (and schematics) were created with the free version of [EagleCAD](#). Some designs have been marked up with some custom layers requires for [BatchPCB](#) (specifically the silk-screening process). I'm always open to ideas if you know how to make the designs better! Otherwise, they are here for the taking to do with as you please. I only ask that you give credit where credit is due if you plan on making your own modifications. This is just a request, however, and isn't required :)

### C64 Optimized PSU

This board is a re-creation of the power section of the [C64 Optimized PSU](#) schematic from ucapps. The nice thing is that it's quite tiny, although the regulator may tend to get hot my original design didn't account for adding a heatsink. For small setups, though, it should work.

Details about this board can be found on [this](#) forum post. I'll eventually add the schematics and board layout as a direct download from my website.

### BankStick 7-1

I built this board partly because I was having trouble building it on a prototype board. I based it off of the BankStick x8 schematic available from ucapps with minor modifications. I call it 7-1 because 7 chips can be placed on the board itself, with an optional header to make it possible to hook up an external BankStick.

The only problem I ran into with this board was that my design rules didn't exactly match those from BatchPCB and, as a result, my ground plane was split. It was easy to fix, however - I just soldered a wire from the GND of one of the chips to the GND on my DIL header. Since it's on the bottom, the aesthetics are preserved, although if I end up making another one of these you can bet I'll be fixing that ;)

Details can be found in [this](#) forum post.

### SID-PWR

This is a work-in-progress. It is an alternative to a C64 power supply and will supply +5 and +9V from

a 9 or 12VAC transformer. Stepping down the heat is done via power resistors and heatsinks. So far, the protoboard design powers my MB-6582 nicely so I will eventually make a power board for it though may add to it +12V/-12V as an option (since I want to add an additional filter to my MB-6582).

## ModMatrix

This is another situation where I figured it would be easier to have a board printed than try to wire something up on a protoboard. This board is for the Modulation Matrix part of the MidiBox-SID [control surface](#). At the time of this writing, I have not yet had this board printed as I'm waiting to take more measurements, settle on a front-panel design, etc. While it's untested, you can find the board layouts, schematic, and more info in [this](#) post.

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