MB-SIDR8TR

This is a project built around making a MidiBox SID in a 3U rackmount case using the MB-6582 mainboard. This is a **huge** work in progress however feel free to contribute!

Parts

- 3U Chassis - Jameco Part # 132848

Panels

This is the current iteration of the panel. It is not final and, in fact, you can likely see a few mistakes here and there.

mb6582r.zip

Boards

Here are the collection of boards required to populate the control surface. Since a single-board solution would be quite expensive (starting with the full version of EagleCAD), the design is more similar to the standard C64-based control surface in that various parts of the control surface can be populated using smaller boards.

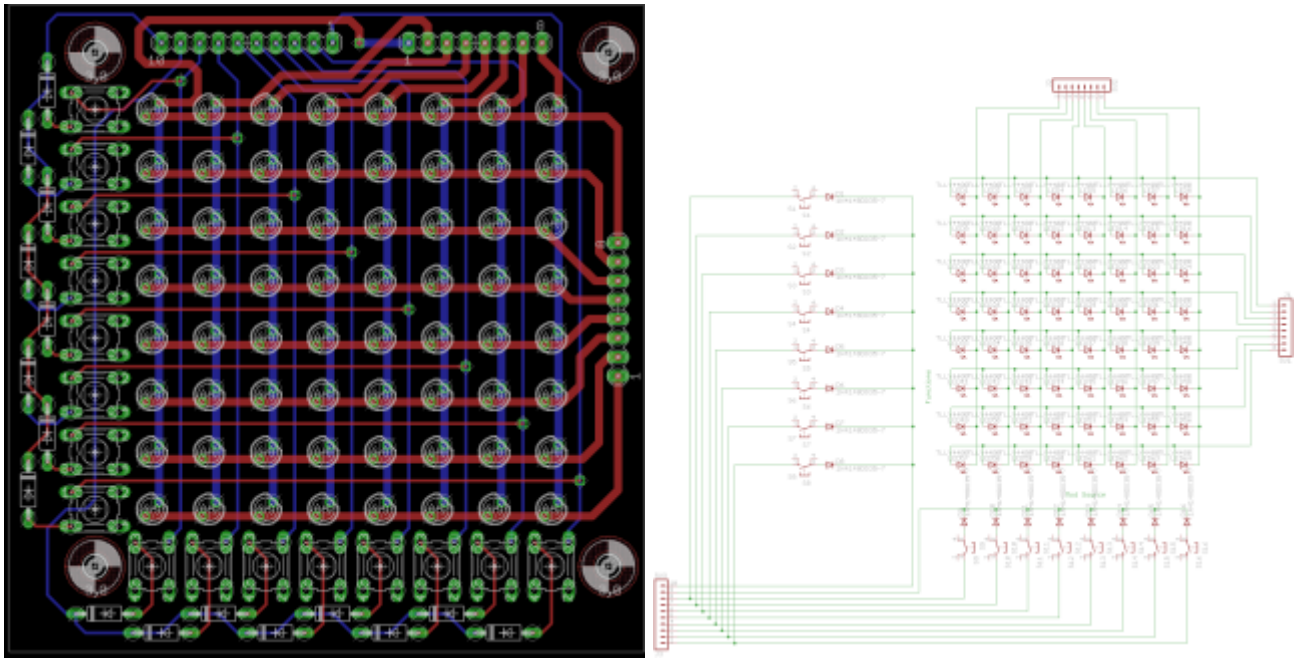
That said, since the MB-6582R uses the MB-6582 mainboard, the wiring reflects the use of LED and button arrays. The wiring can be found here at the following:

- mb-6582_cs_dout_wiring.pdf
- mb-6582_cs_din_wiring.pdf

Further details can be found on the MB-6582 wiki page.

LED Matrix

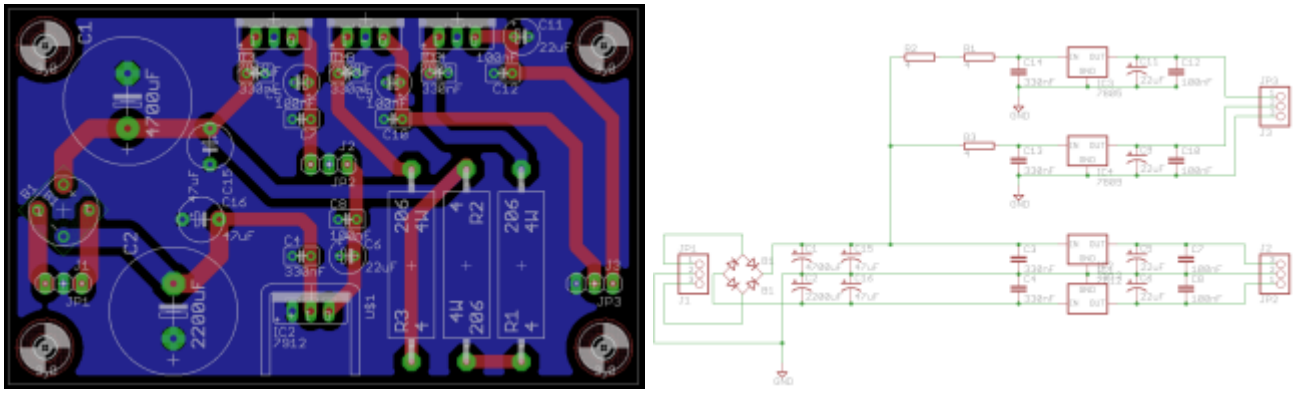
This is a proposed layout for an LED matrix board to be used coupled with the above panel design. While other boards can likely be made from home using various methods, it might be wise to have this one printed. Note that this design currently has the mounting holes up higher than the current design of the front panel. The mounting holes were moved down on the panel so the design was more uniform. Modify per your needs!



Eagle

Power

The power board supplies +/- 12V, +9V and +5V. +12V might be able to be used for a SID-6581 but the board is really optimized around suppling +9V (in other words, 8580/6852 SIDs). This board is based off northernlightx's Complete PSU with a few modifications. The +/- 12V is for adding AOUT modules (namely for SSM 2044 filters).



sidr8tr-power.zip

Props

Thanks to TK, Wilba, SmashTV, and nILS for their help, inventions, and support. Without them, this would not have been possible!

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