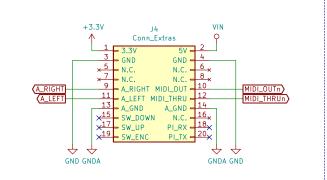


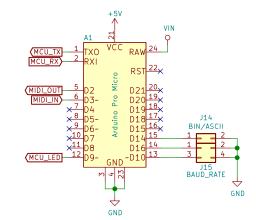
Extras connector When the extras board is used along with the BulkyMIDI-32, this connector takes care of all signals to and from the main module. The board is powered from this connector as well, for that reason the barrel connection should not be installed unless you intend to use it this way.

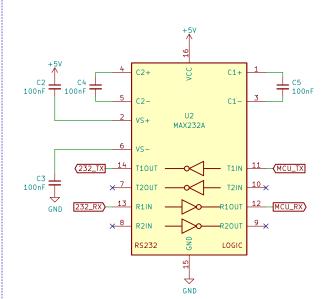


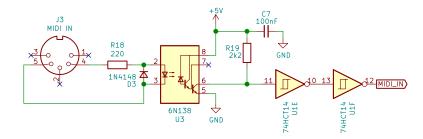
RS232_DCE

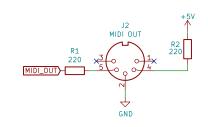
RS-232 Baud rate converter

A regular PC serial port can use different baud rates, but the closest to what a MIDI-device would expect is 38400 baud — something that is too far away from the specification to function. While the MT32—PI itself is able to handle these non-standard baud rates via a configuration option, this is more of an option for real MIDI devices.





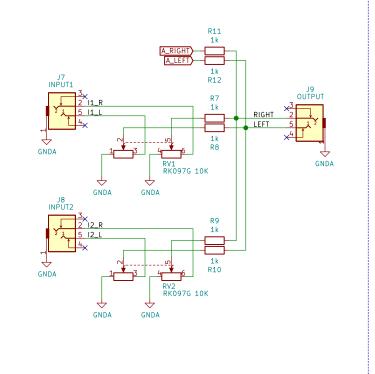


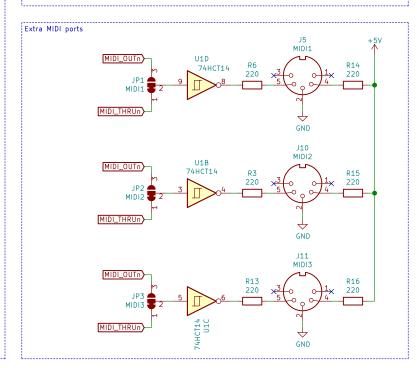


Passive audio mixer

The audio inputs can be routed via the extras connector from the main module, alternatively you can manually route it externally to INPUT1/INPUT2. The two inputs will passively be mixed into the output sound, note that the level will be slightly lower on the output as compared to directly from the DAC.

0000



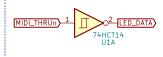


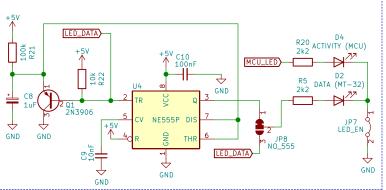
Status LEDs

Board status, shows that the boards are powered as well as separate LED for the MCU functionality.

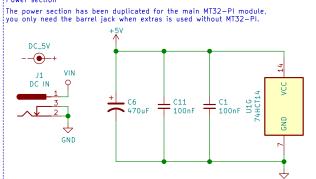
DATA received on MIDI input for main board is also shown, but as I didn't like the flickering we'll light it up as mostly solid — as long as there is activity. A simpler version can be built without these components, linking NO_555 pins 2—3 instead.

This is calculated as T = 1.1 * R21 * C8 = 0.11s





Power section



Basically a bunch of features that I wasn't able to fit onto the main PCB.

Sheet: / File: BulkyMIDI-32 Extras.sch

Title: BulkyMIDI-32 Extras

Size: A3 Date: KiCad E.D.A. kicad (5.1.8)-