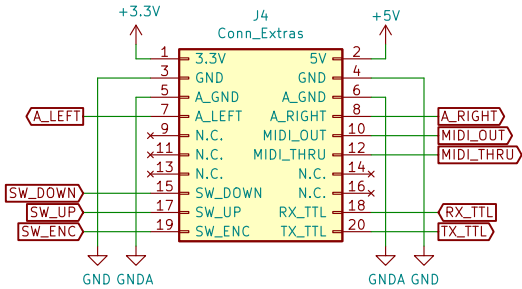
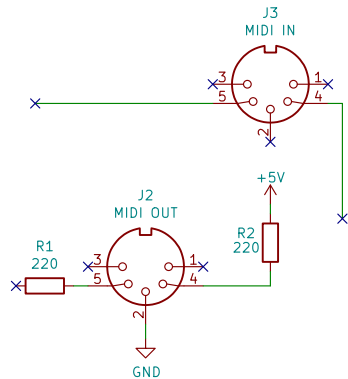


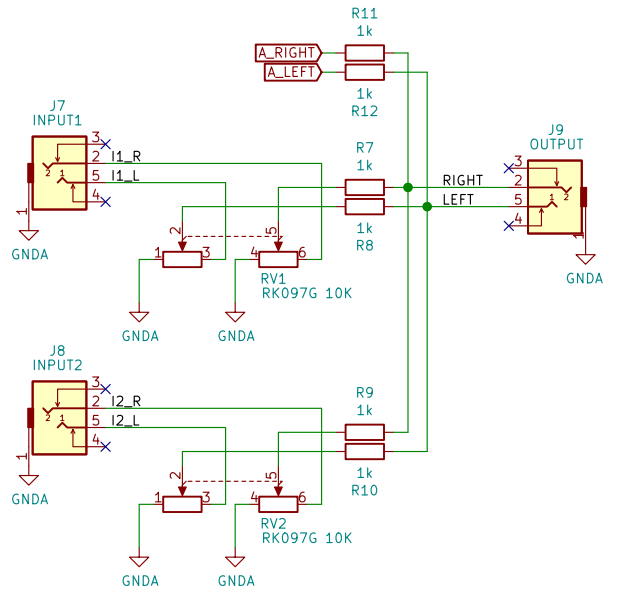
Extras connector
When the extras board is used along with the BulkyMIDI-32, this connector takes care of all signals to and from the main module. The board is powered from this connector as well, for that reason the barrel connection should not be installed unless you intend to use it this way.



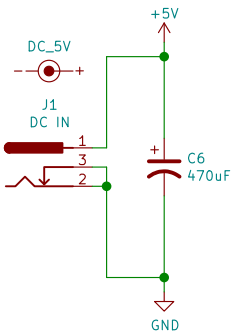
RS232 Baud rate converter
NOT completed, the connectors are just here as physical placeholders



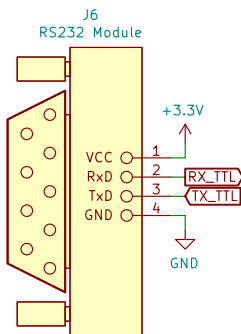
Passive audio mixer
The audio inputs can be routed via the extras connector from the main module, alternatively you can manually route it externally to INPUT1/INPUT2 if you prefer (as this offers a way of controlling the signal).



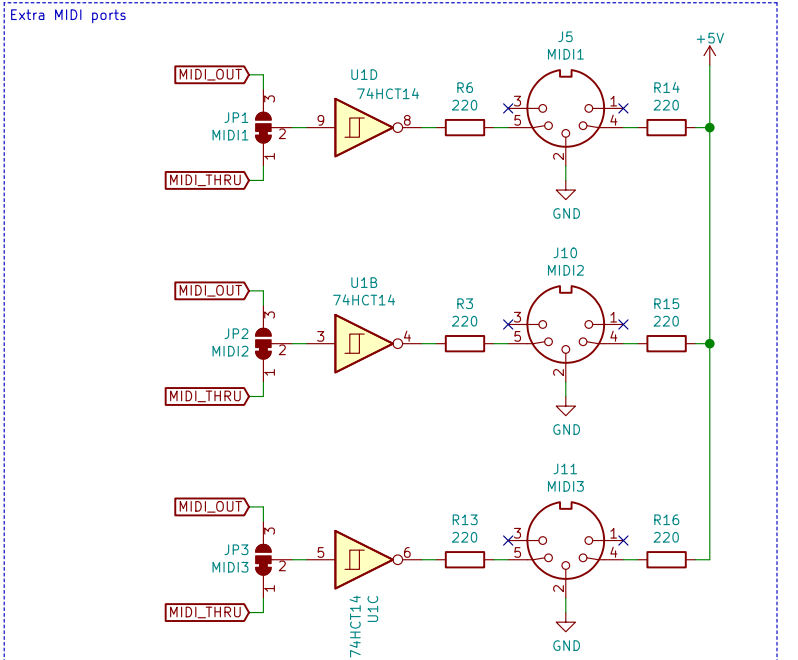
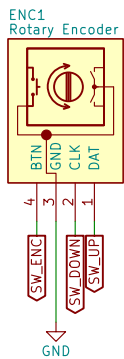
Power section
The power section has been duplicated for the main MT32-PI module, when used together you would normally not install these components as power is supplied via the extras connector.



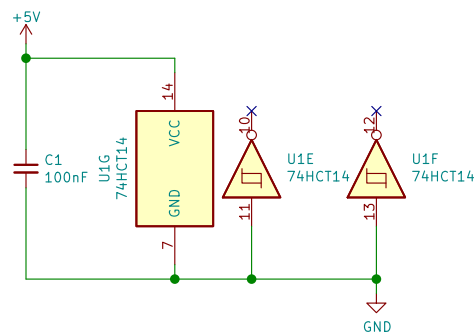
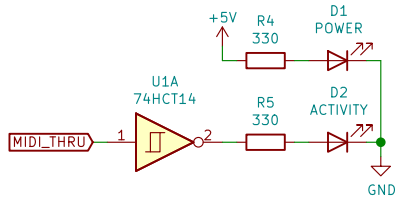
RS-232 or TTL Serial USB adapter (optional)
Installed is a commonly used RS232 converter module. In order to give it a little more rigidity, the module is mounted upside down into the cutout on the board. At the moment this is connected to the Raspberry Pi as is common for MT32-PI, but it is my hope to add an MCU at a later point for baud rate conversion (MIDI is 31500, the closest on a computer is 38400).



Control scheme ("simple_encoder")
4-pin connector for connecting up a rotary encoder, but because I couldn't find a pre-made module that would fit this is included as a separate PCB. This would have been easier if the real right-angle encoders weren't so expensive.



Status LEDs
Board status, the ACTIVITY follows data sent to the MT32-PI.



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