Terminal tedium (for the impatient)

/* a simple eurorack breakout board for the raspberry pi (A+, B+, odroid w). it's meant to be used headless (hence the name (a.o.)) */

*** proper documentation to follow ASAP ***

building it up should be easy even so – you can follow the values indicated on the pcb. no special precautions required except:

- don't solder the one 49k9 resistor in the vicinity of the top-right TL072 (as shown on the next page)
- substitute diodes with 33k resistors (near the bottom right side of the board)

Essentially, the board features a TI pcm5102a stereo codec (i2s), and a 12bit ADC (MCP3208) for the CV inputs (CS = CE1). So, basically, it's a soundcard + controller. In total, there's two audio outputs (L/R - 10VPP), 8 CV inputs (+/- 5V; six of which with offset/pot, and two bipolar/aux); four digital inputs (GPIO2/3/4/17); three tact switches (GPIO23/24/25); and two digital outputs (10v, GPIO16/26). The focus was entirely on the DAC/getting decent audio out; the ADC bit of things is less satisfying (though still useable for many purposes).

for everything else (software), for now, see the rpio-docs – (https://github.com/mxmxmx/rpio) these should get you pretty far. Make sure you update to the latest kernel)

