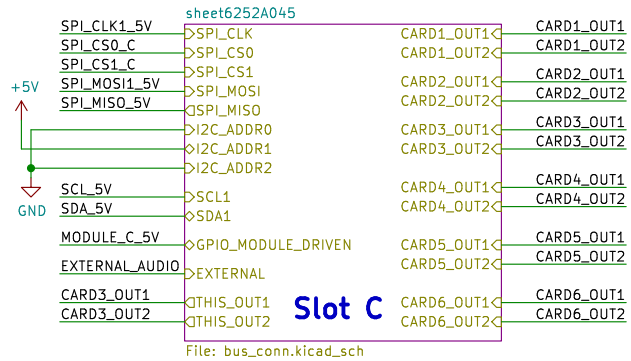
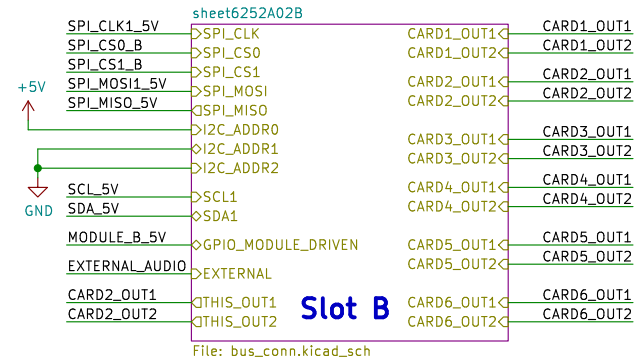
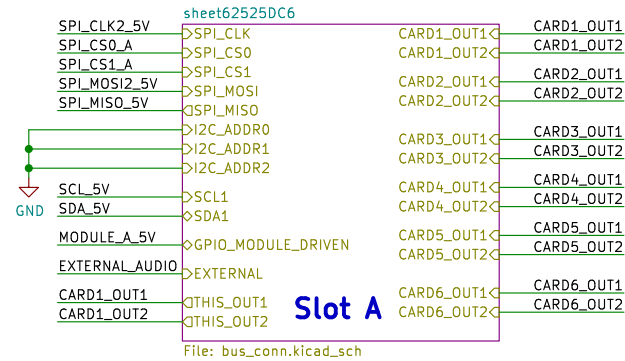
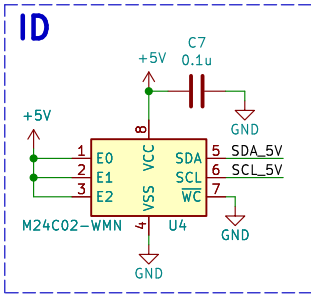
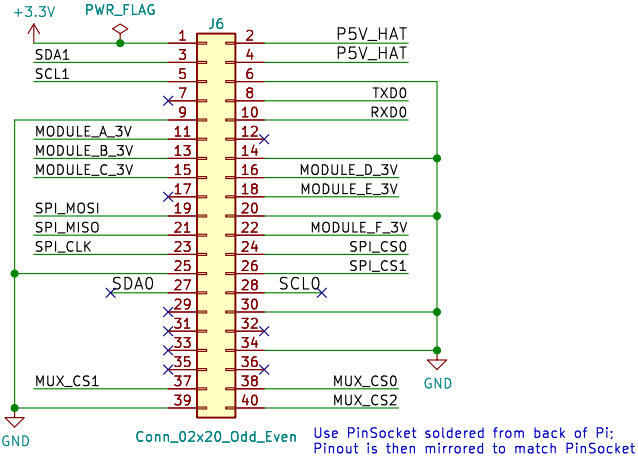
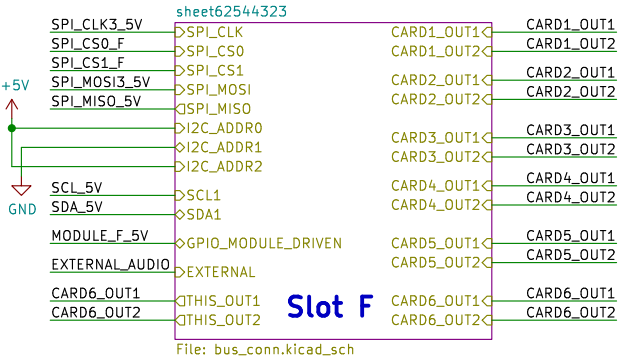
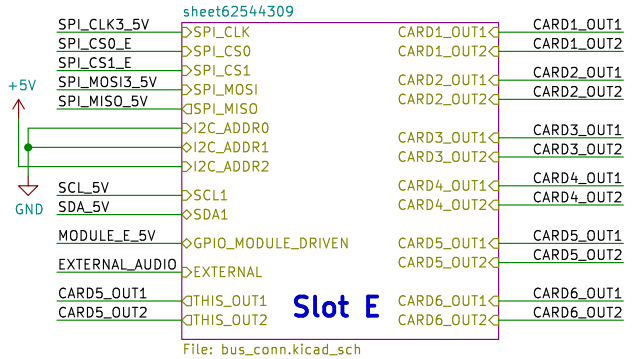
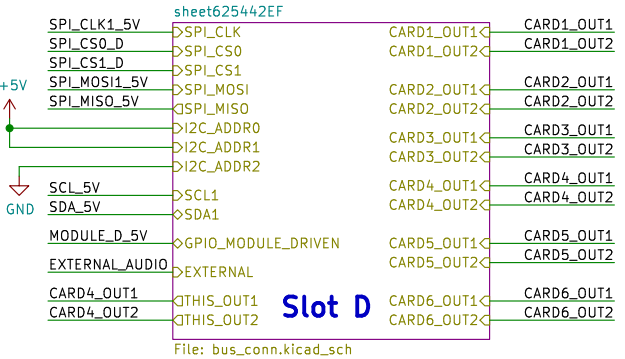
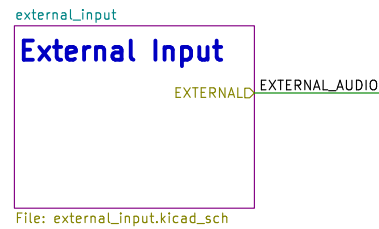
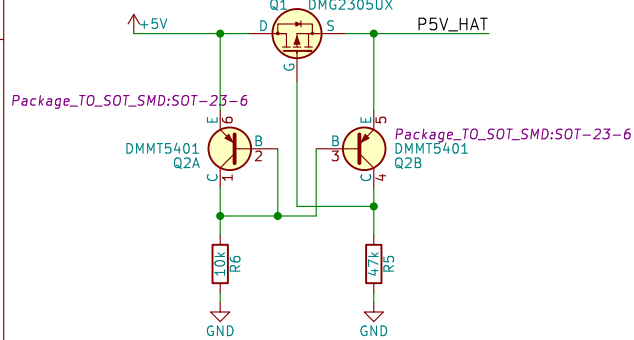


40-Pin HAT Connector

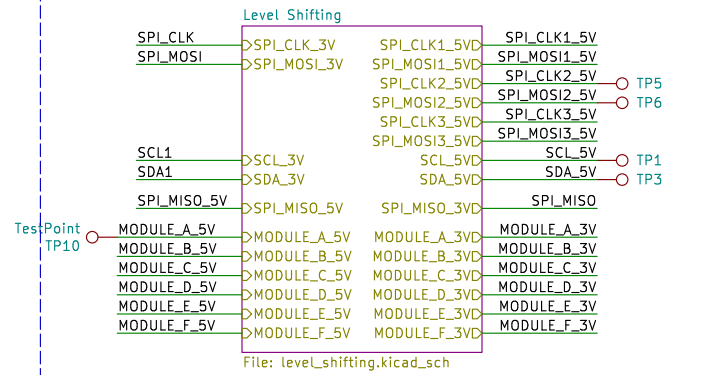


5V Powered HAT Protection

This is the recommended 5V rail protection for a HAT with power going to the Pi.

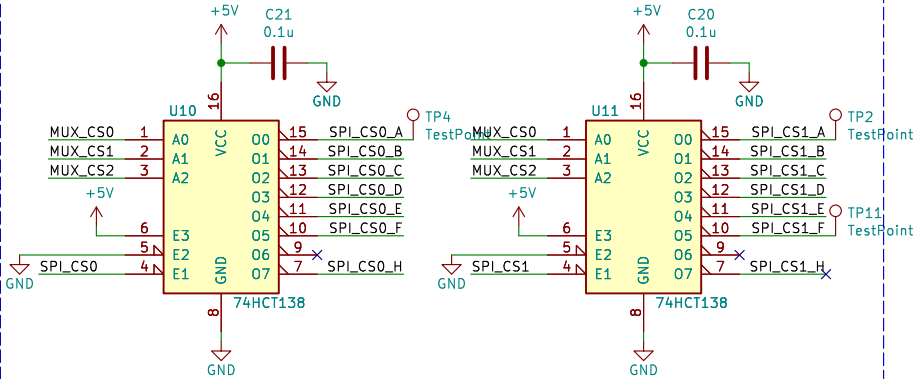


Level Shifting

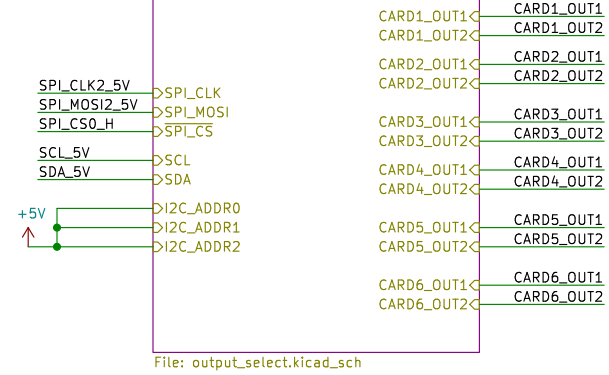


Chip Select w/ Level Shift

SPI Chip Select Multiplexed via GPIO; use HCT part



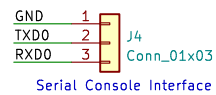
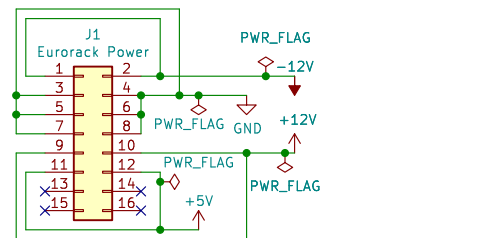
Output Select



Mounting Holes



Euro rack Power Connector



Zoxnoxious Engineering

Sheet: /
File: vca_backplane.kicad_sch

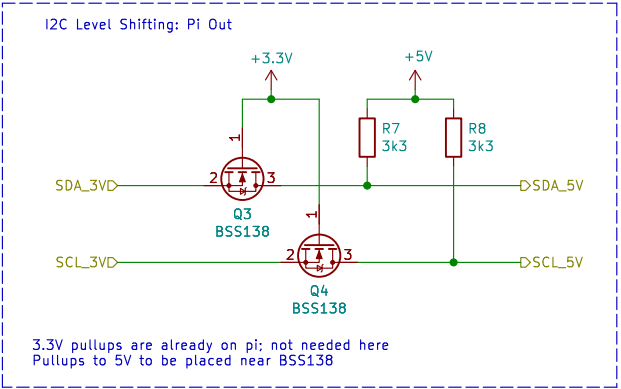
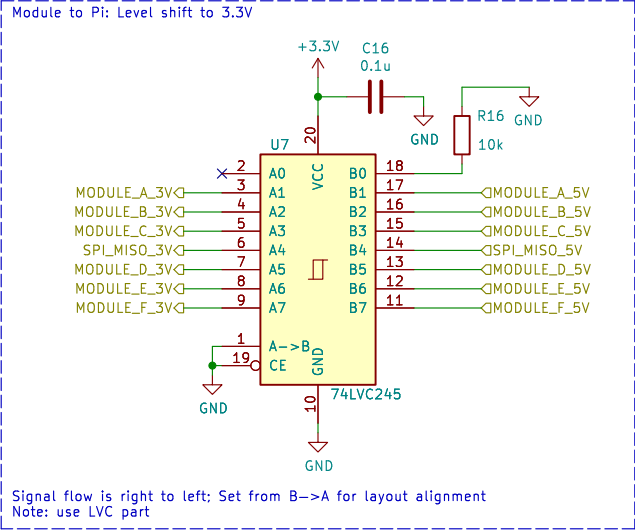
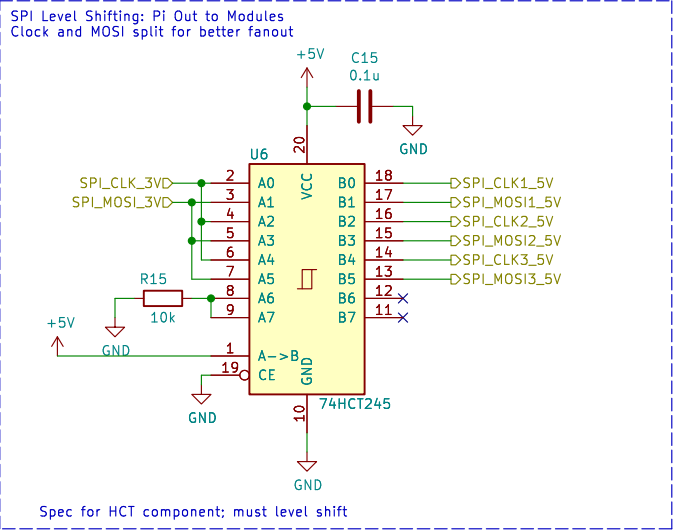
Title: Zoxnoxious Backplane and VCA

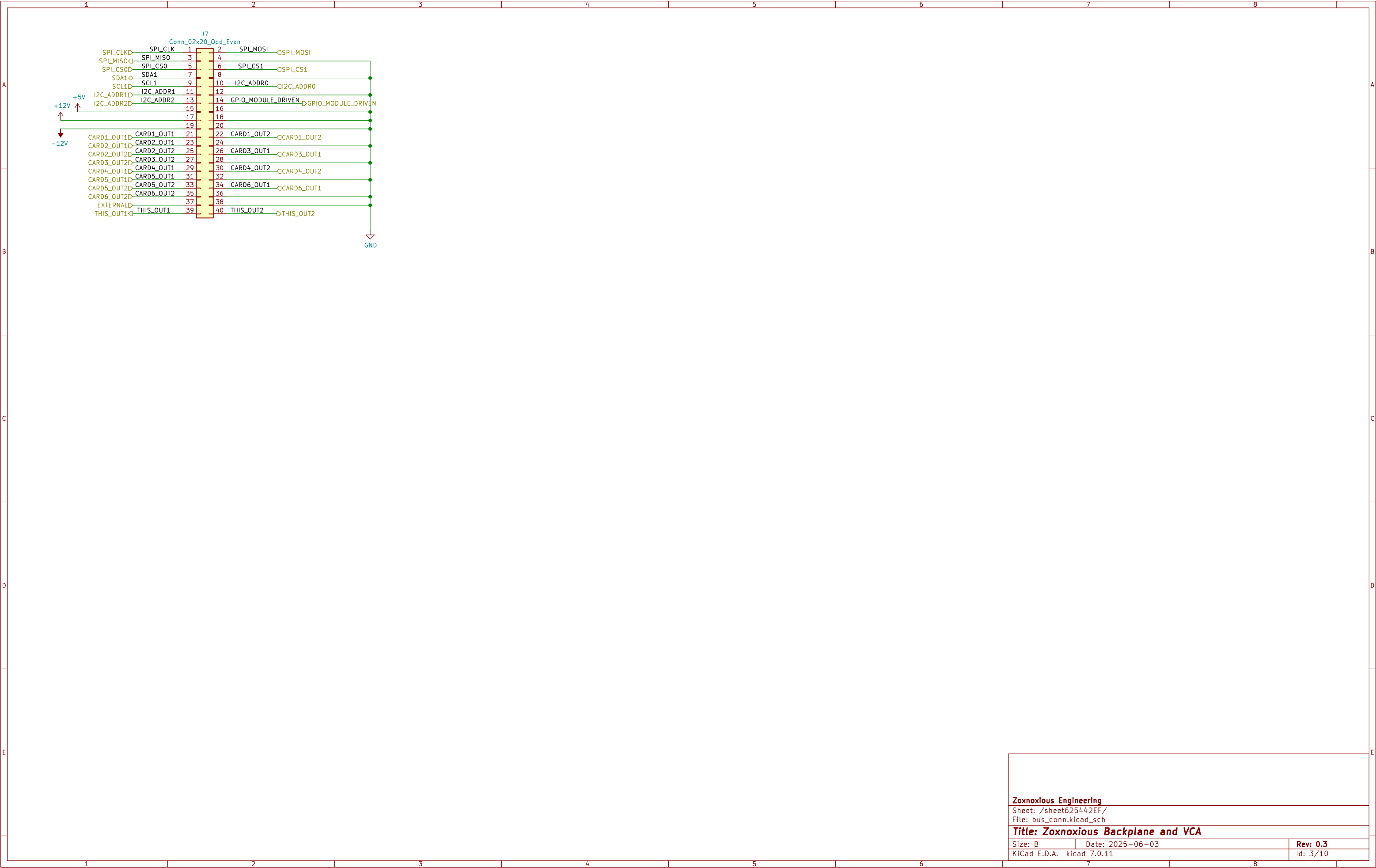
Size: B Date: 2025-06-03

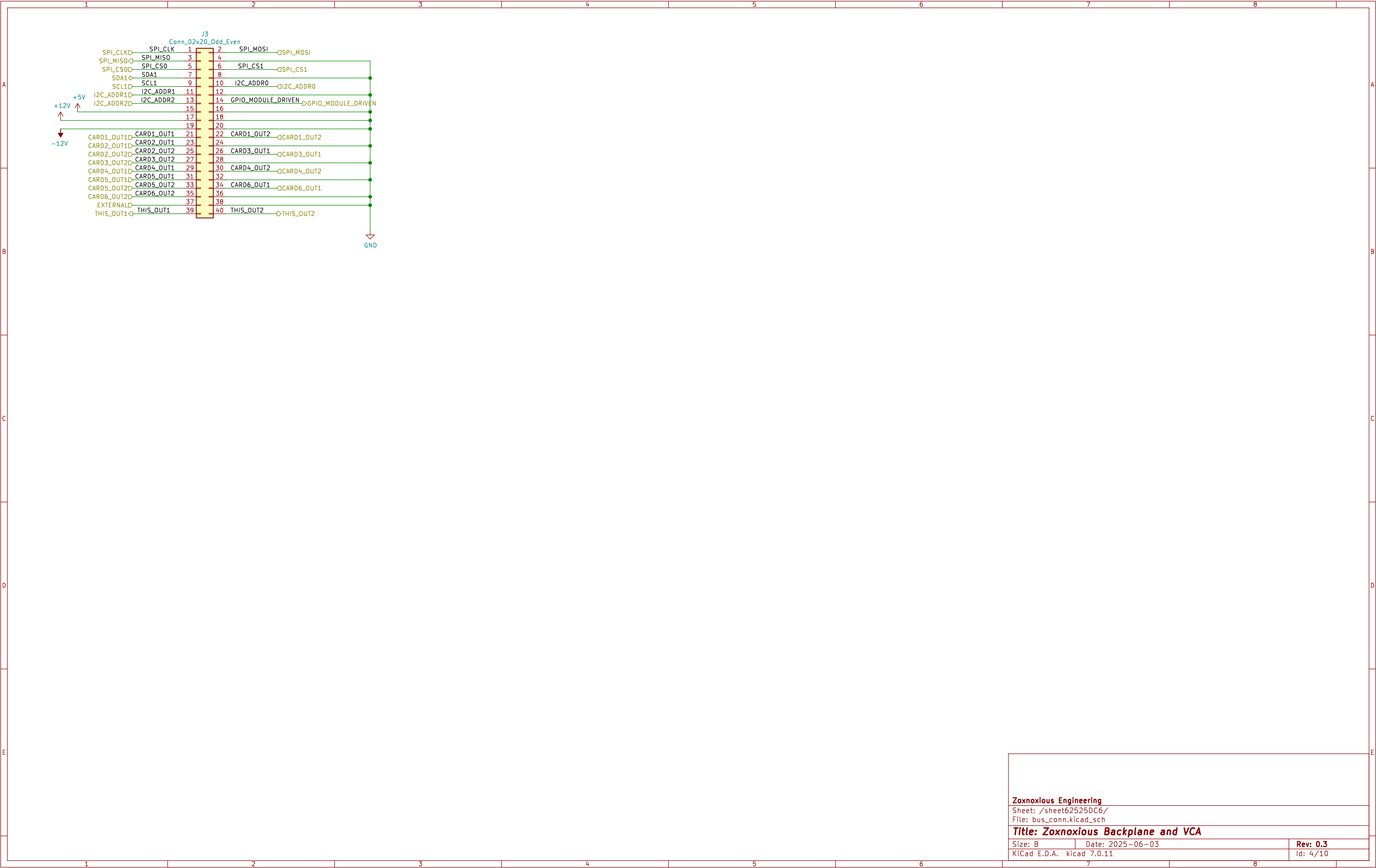
KiCad E.D.A. kicad 7.0.11

Rev: 0.3

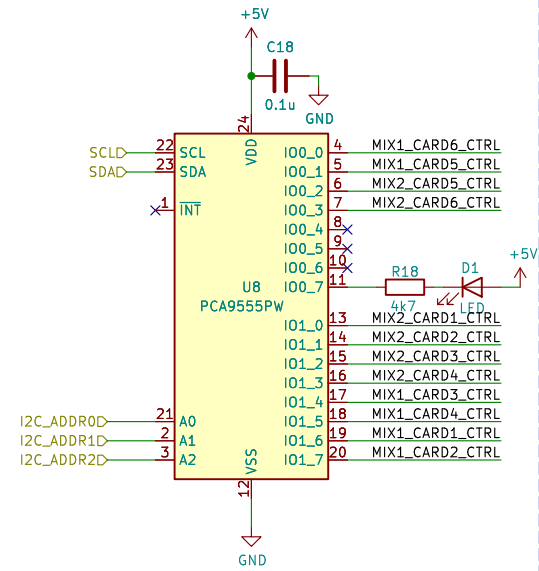
Id: 1/10



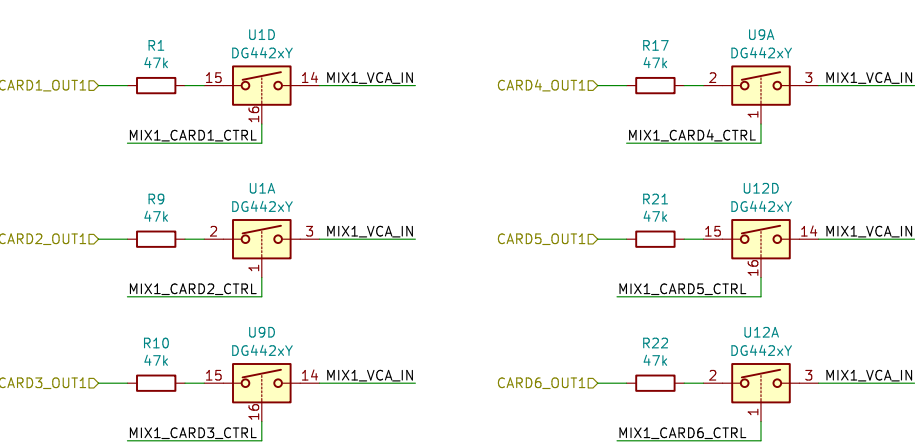




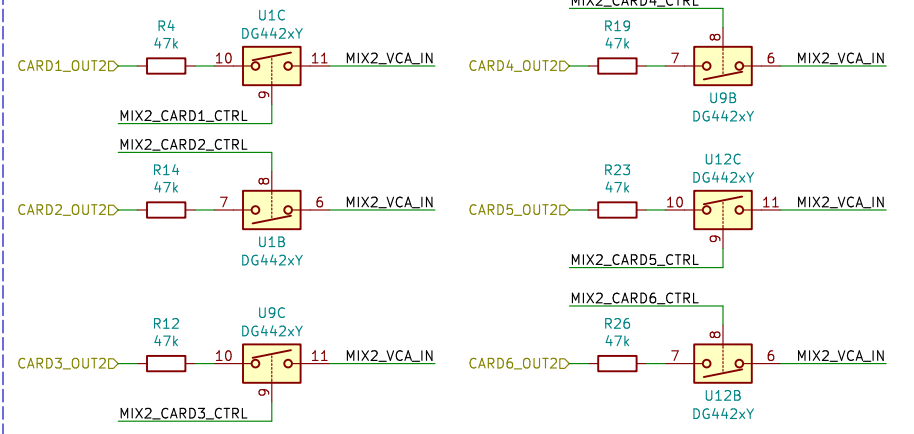
Control Lines "Patch Select"



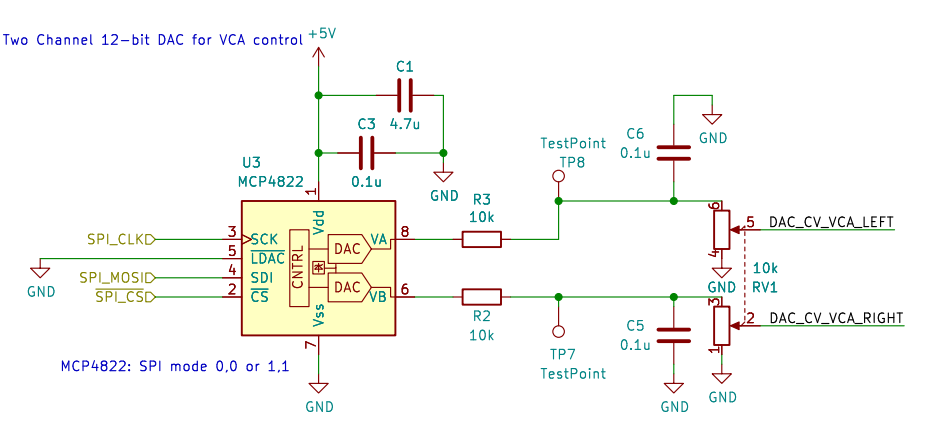
MIX1 SELECT



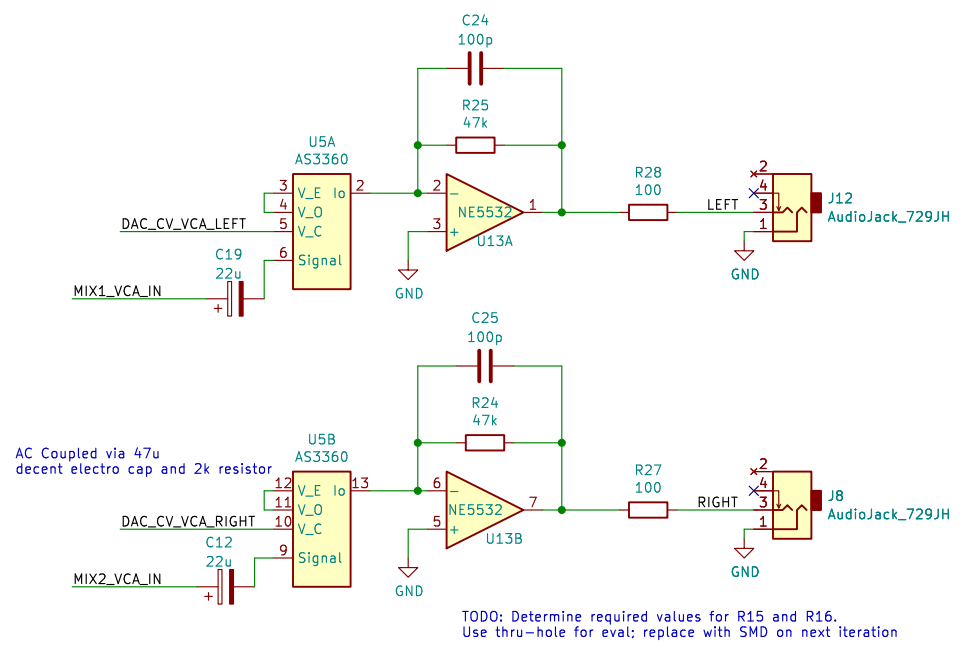
MIX2 SELECT



DAC and VCA Level



OUTPUT VCA AND BUFFER



DECOUPLING CAPS

Decoupling caps to be physically close to device

