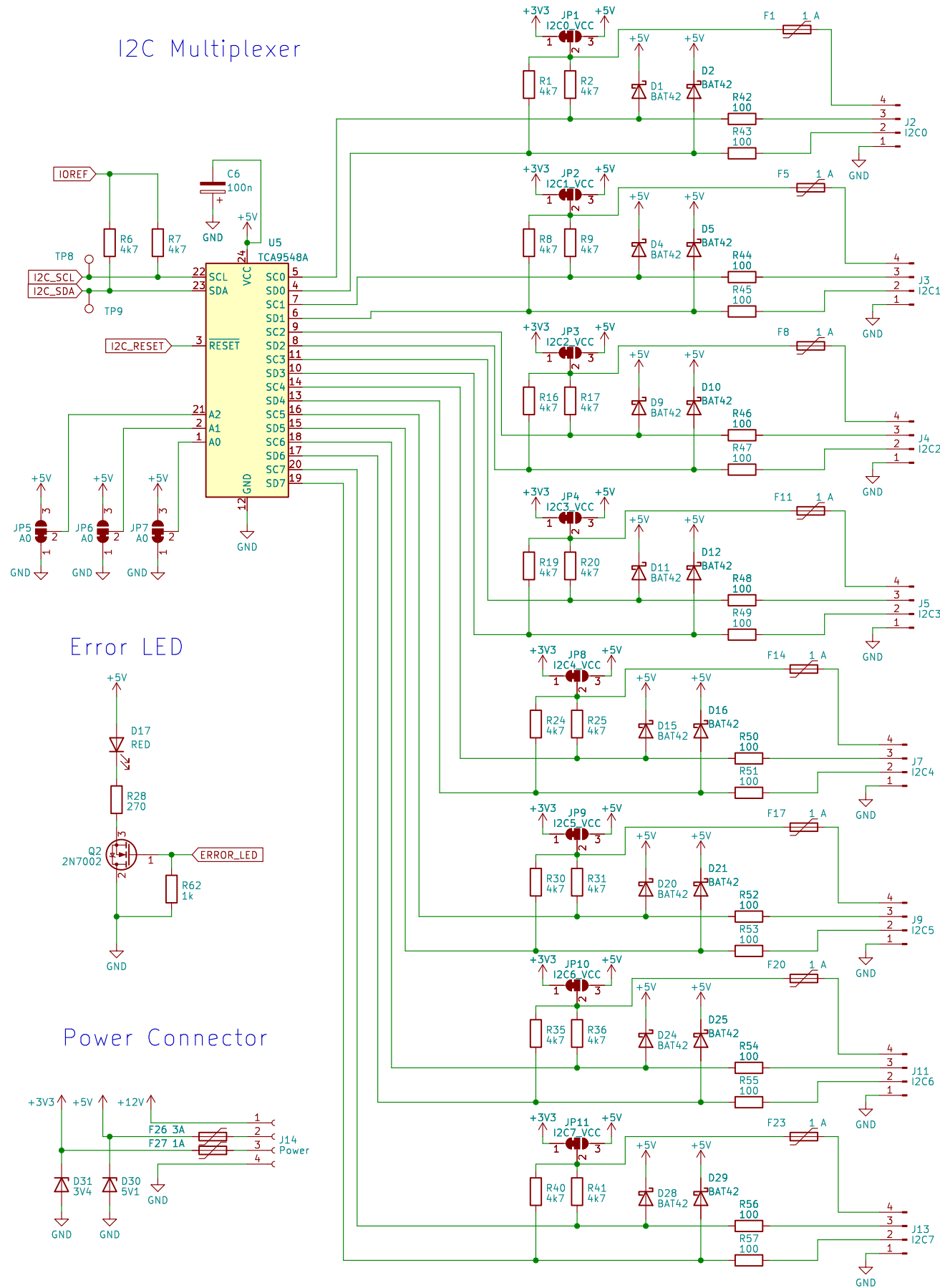
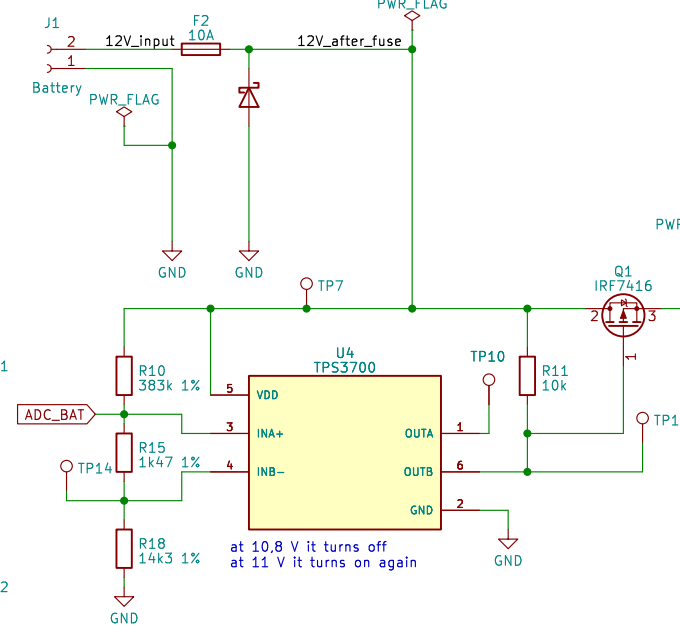


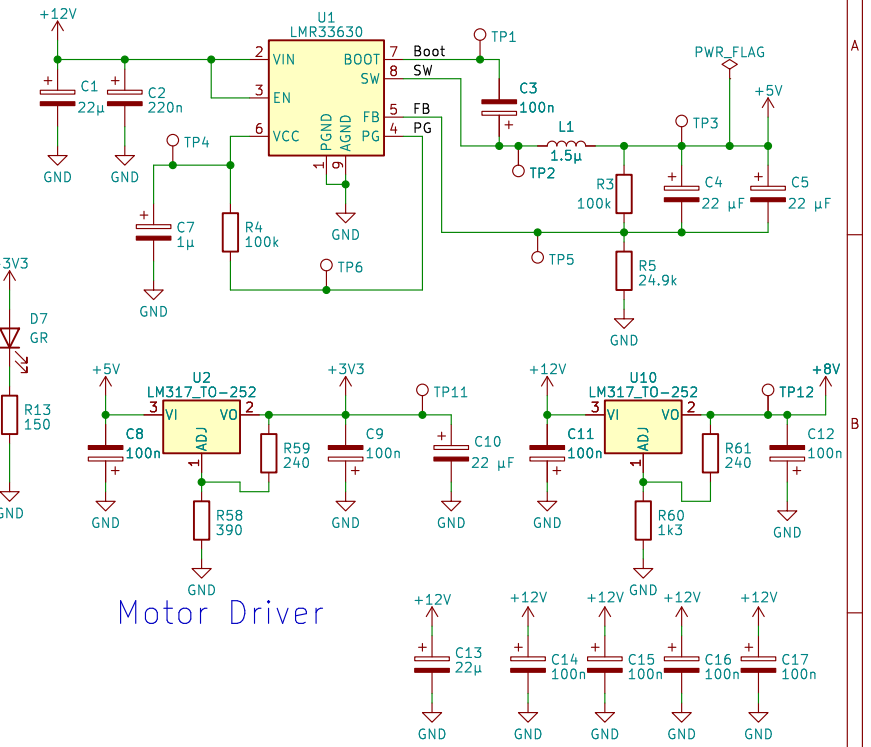
I2C Multiplexer



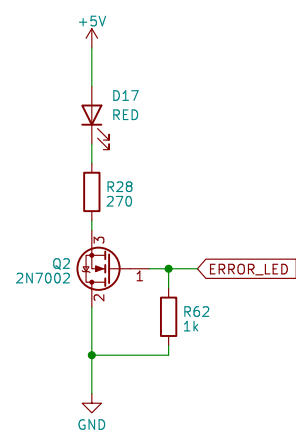
Input Protection Circuit



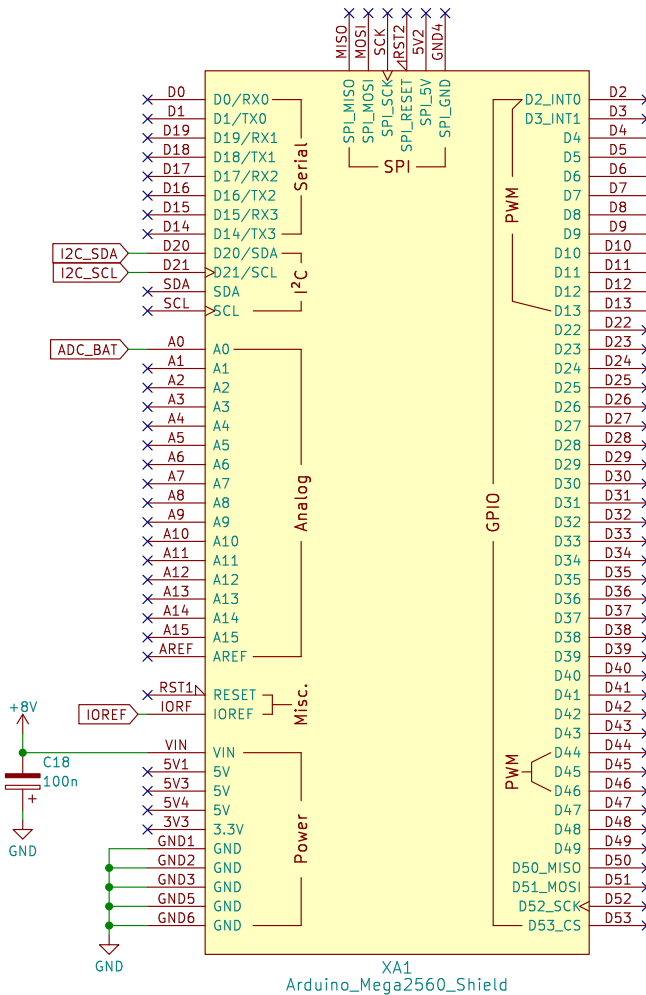
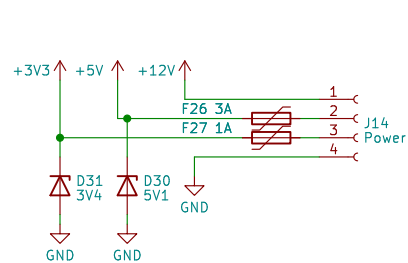
Voltage Regulator



Error LED

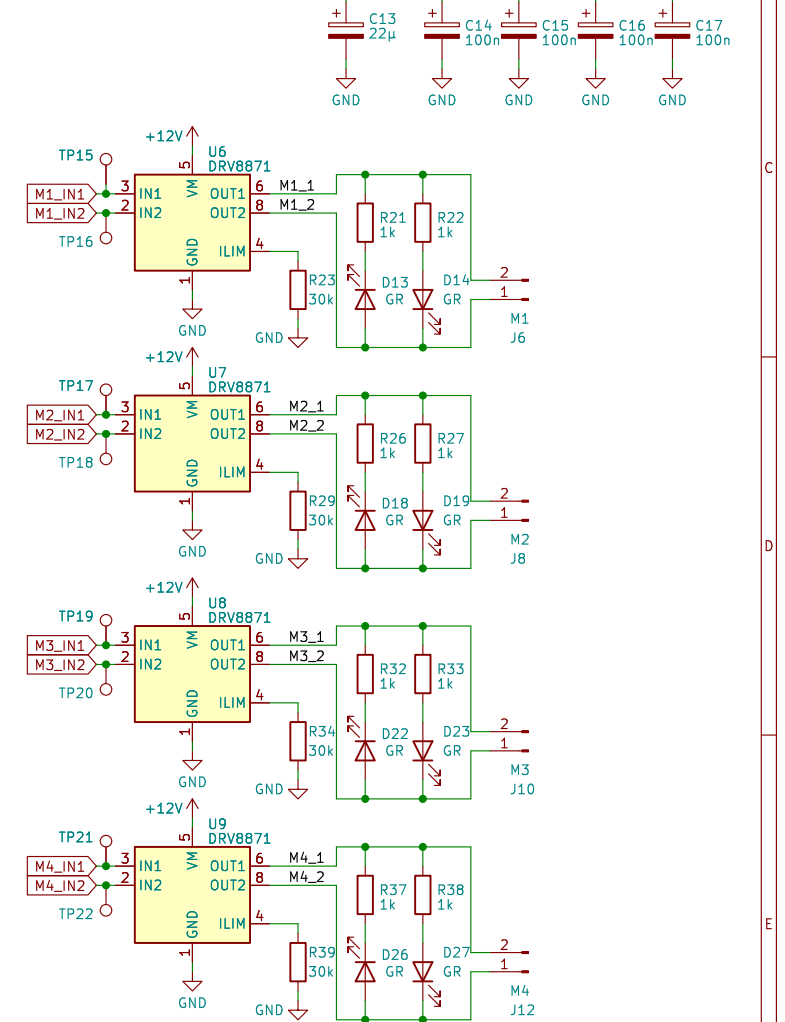


Power Connector



Notes:
LED current 50%:
green 2.05 V, 10 mA
red 2 V, 12.5 mA
Motor Current:
R4 min is 15k -> 4.2 A
L_{max} = 64kV/R4

Motor Driver



TODD: - select components for switching regulator
- define netclasses
- is the power connector large enough?
- do we need max motor current?
- add freerunning diodes

RoCCI e.V.

Sheet: /
File: RocciShield.kicad_sch

Title: RoCCI Shield

Size: A3 Date: 2023-06-23
KiCad E.D.A. kicad 7.0.2

Rev: 0.4
Id: 1/1