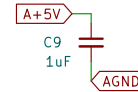


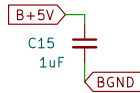
DAUGHTER BOARD

NOTE: use A+5V / B+5V convention maintain separate networks.

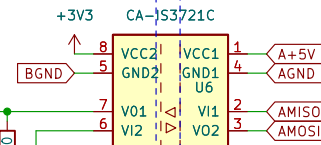
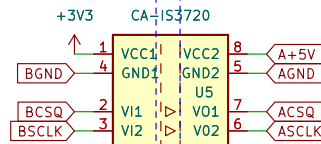
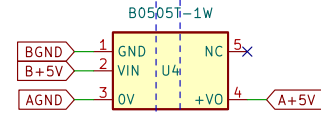
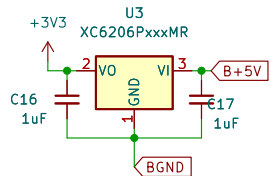
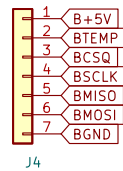
Rail decouplers



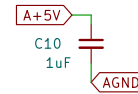
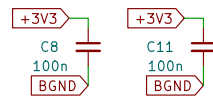
Rail decoupler



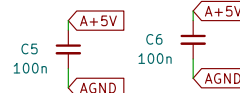
To MP2:



OPTIONAL FIT,
DNP for full duplex on STM,
Fit for half duplex

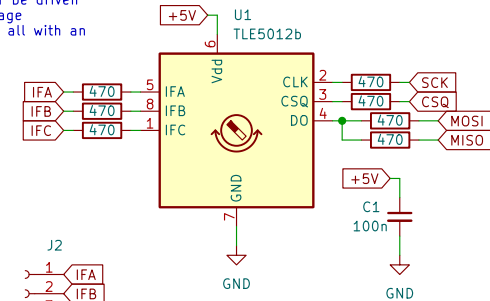


Isolator decouplers

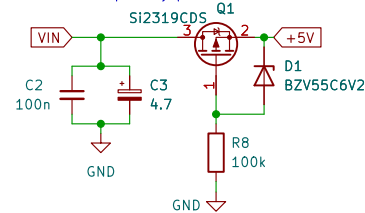


MOTOR ENCODER

The 470R resistors allow the data line to drive or be driven without risk of damage
Could replace these all with an Rpack e.g. C25510



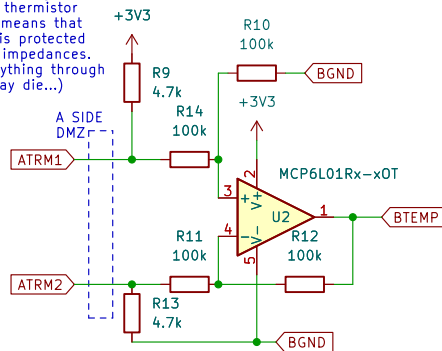
reverse polarity protection



IFA,B,C need to go to 3 separate
isolators, and perhaps leave on
other headers?

motor thermistor
two wires lead from motor to PCB

Differential opamp measuring the
voltage across the 10 thermistor
with gain 1 (check...) means that
the rest of the board is protected
by the 100m and 4k7 impedances.
Will be hard to kill anything through
these (the resistors may die...)



RECONFIRM PINS ON IS3720 / IS3721 BEFORE ORDERING

LCSC HAS A LOT OF DIFFERENT LCSC-NUMBERS FOR THE TLE

Sheet: /

File: encoder_driver.kicad_sch

Title:

Size: A4

Date:

KiCad E.D.A. kicad (6.0.8-1)-1

Rev:

Id: 1/1