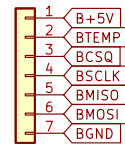


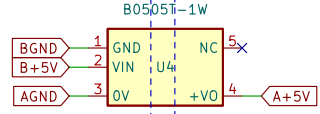
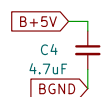
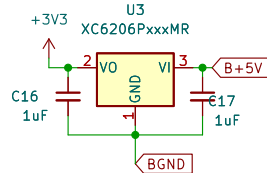
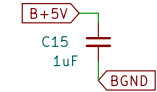
# DAUGHTER BOARD

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

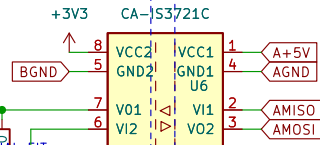
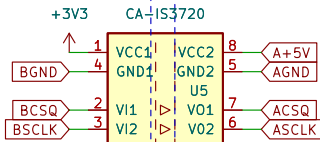
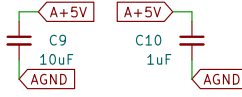
To MP2:



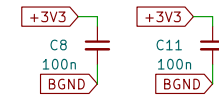
Rail decoupler



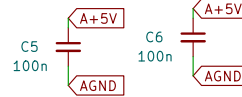
Rail decouplers



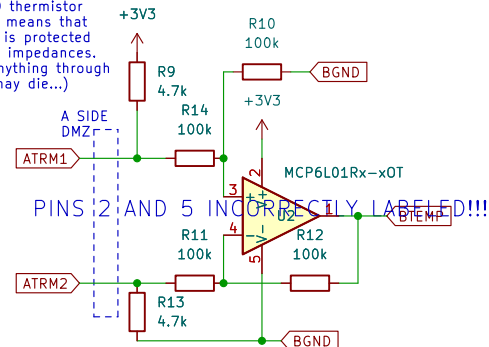
OPTIONAL FIT,  
DNP for full duplex for STM,  
Fit for half duplex



Isolator decouplers



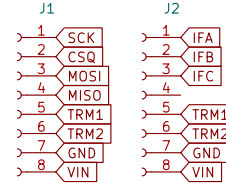
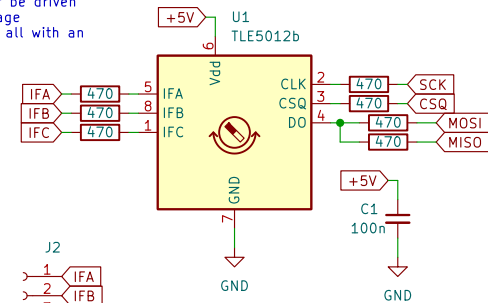
Differential opamp measuring the voltage across the 10 thermistor with gain 1 (check...) means that the rest of the board is protected by the 100n and 4k7 impedances. Will be hard to kill anything through these (the resistors may die...)



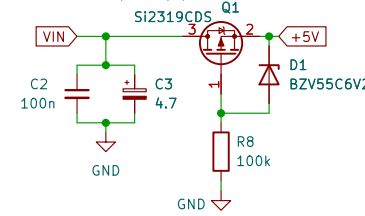
PINS 12 AND 5 INCORRECTLY LABELED!!!

## 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

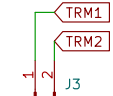


reverse polarity protection



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



Sheet: /  
File: encoder\_driver.kicad\_sch

Title:

Size: A4  
KiCad E.D.A. kicad (6.0.7-1)-1

Date:  
Rev: 1/1