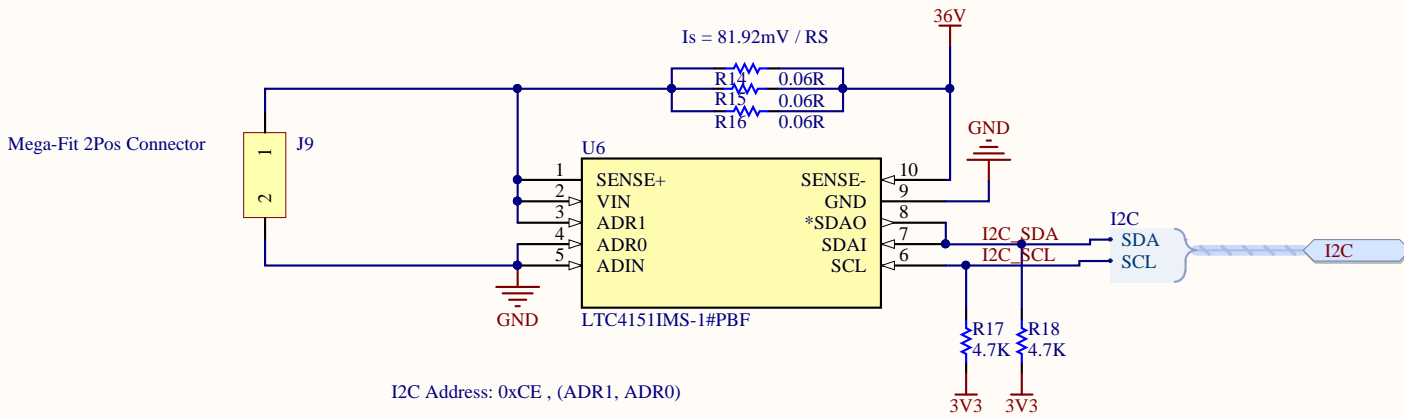
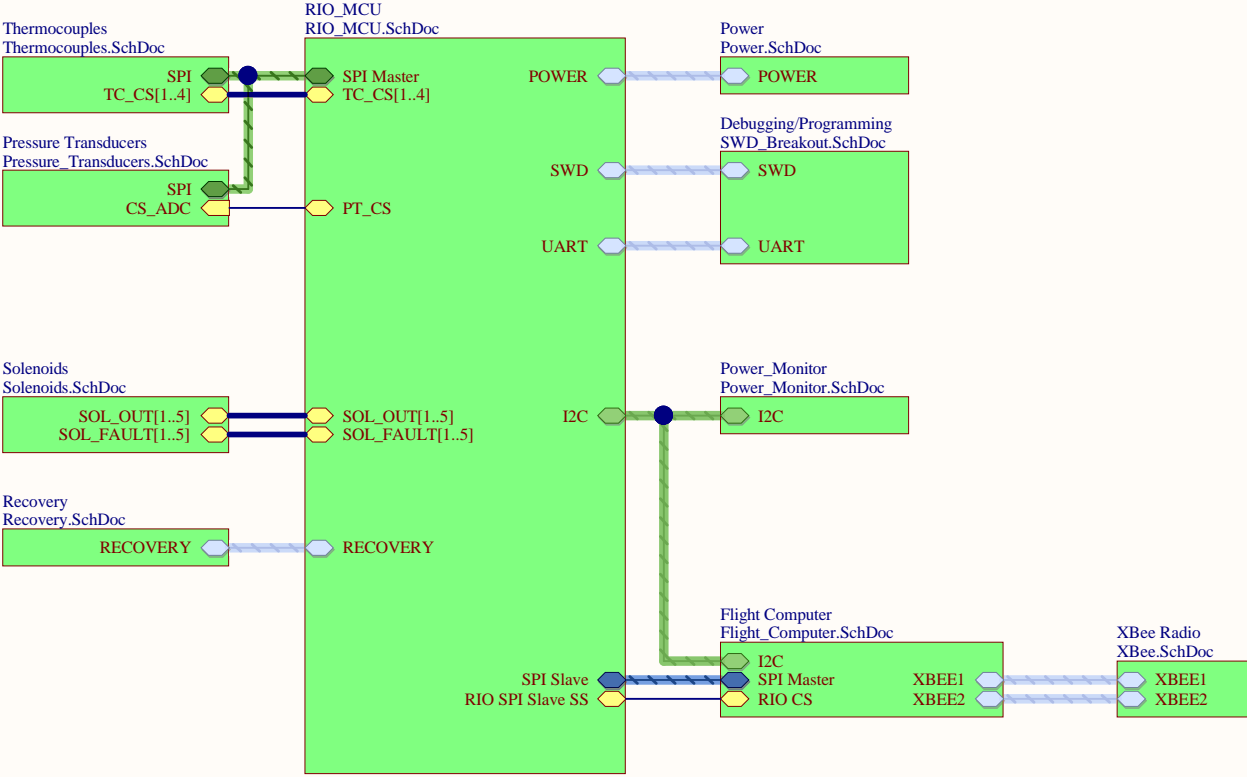


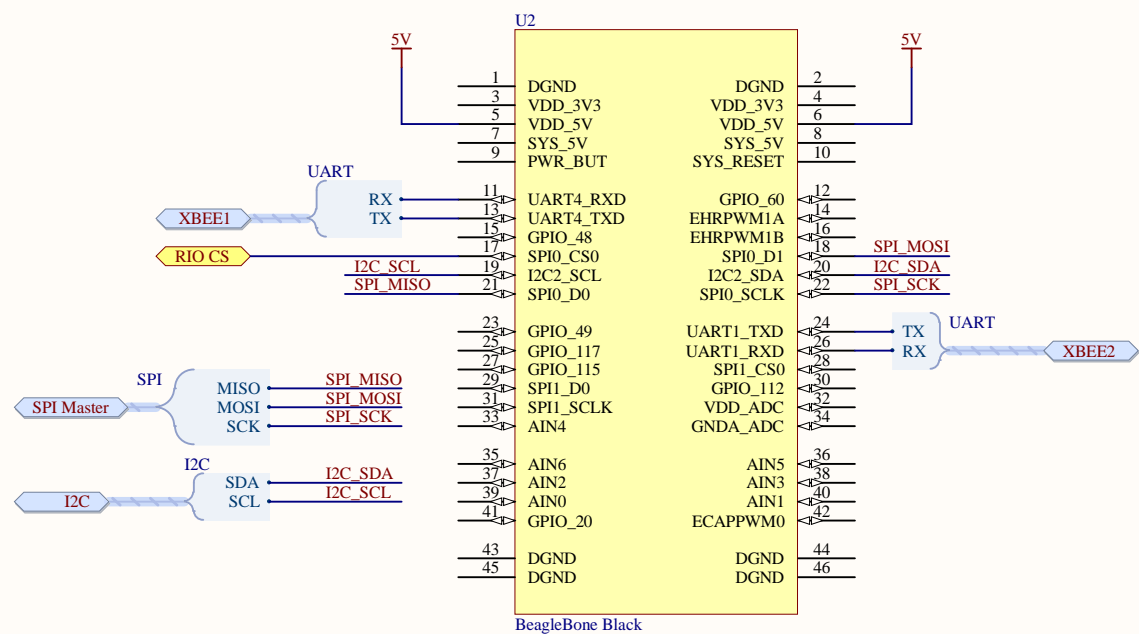
Battery and Charger Breakouts



Title:	Battery and Charger Breakouts		
DrawnBy:	Seyed Omid Hasanli		
Revision:	1.0	Date:	Dec 27, 2017
SheetNumber:	12	Cannot open file C:\Users\Omid\Desktop\RPL_L OGO.jpg	
Datasheet Link:			

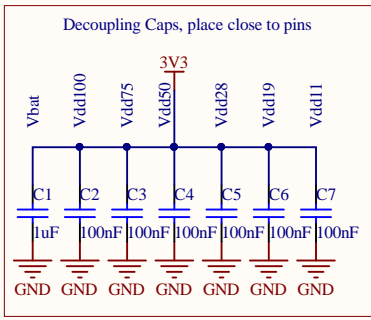
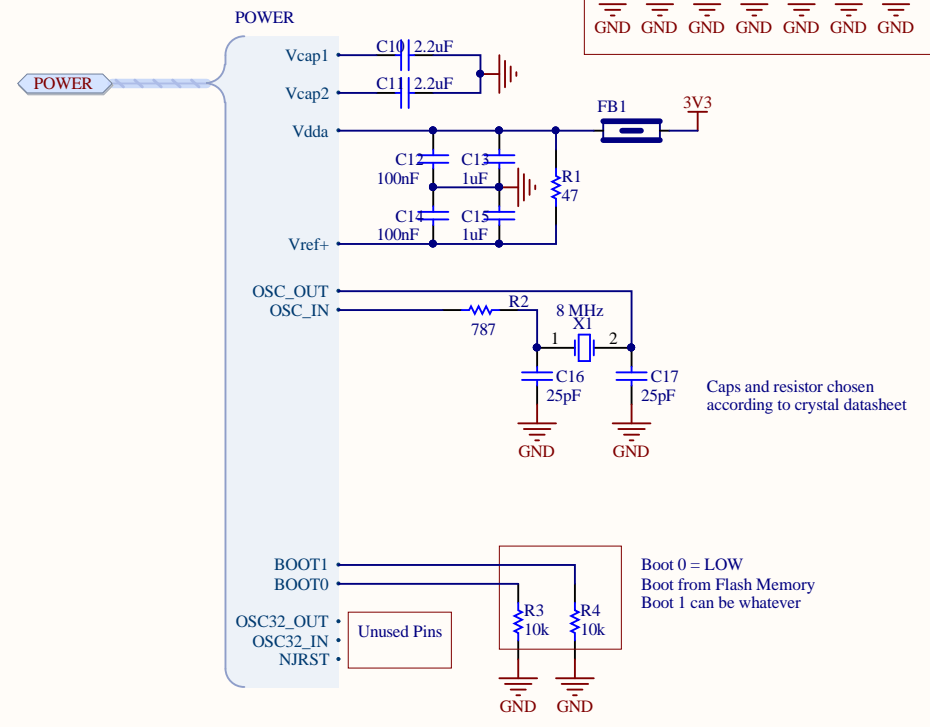
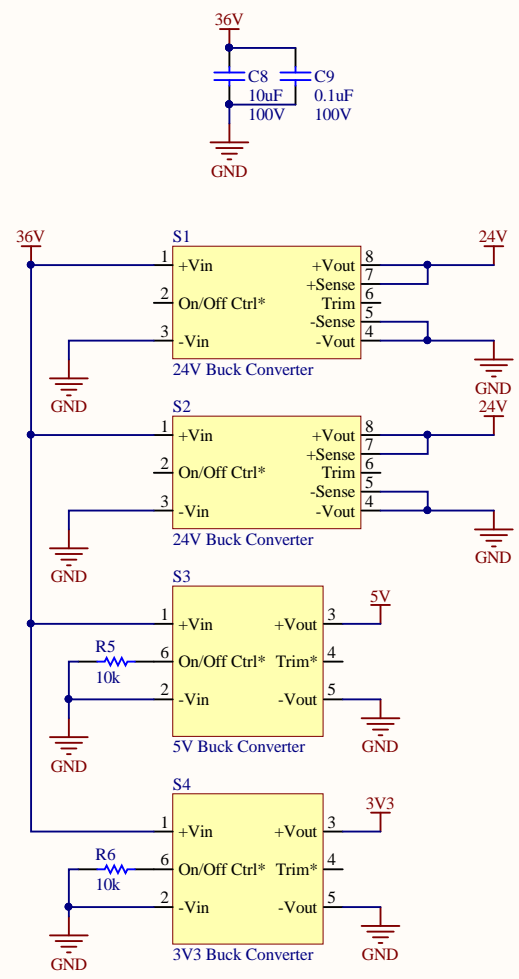
Top Level Block Diagram





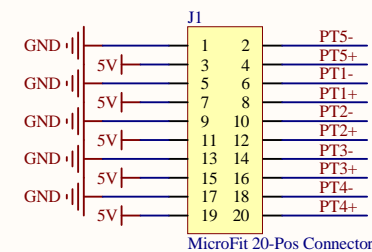
Power


Voltage Regulation



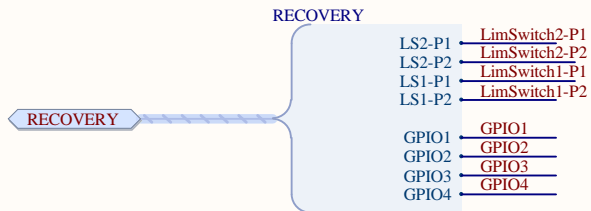
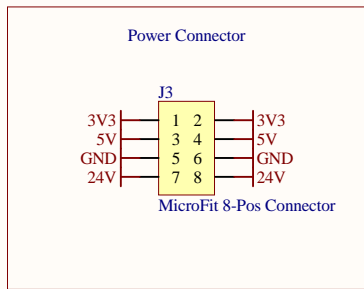
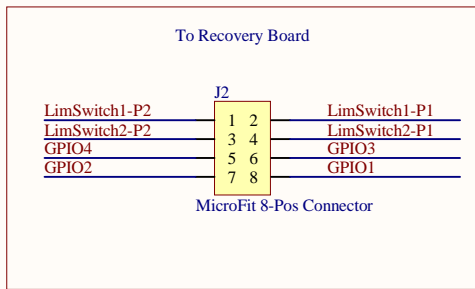
Crystal Resistor/Capacitor were chosen thanks to this document
http://www.st.com/content/ccc/resource/technical/document/application_note/c6/eb/5e/11/e3/69/43/eb/CD00221665.pdf/files/CD00221665.pdf/jcr:content/translations/en.CD00221665.pdf

Sample rate should be programmed (4.17 Hz to 470 Hz)

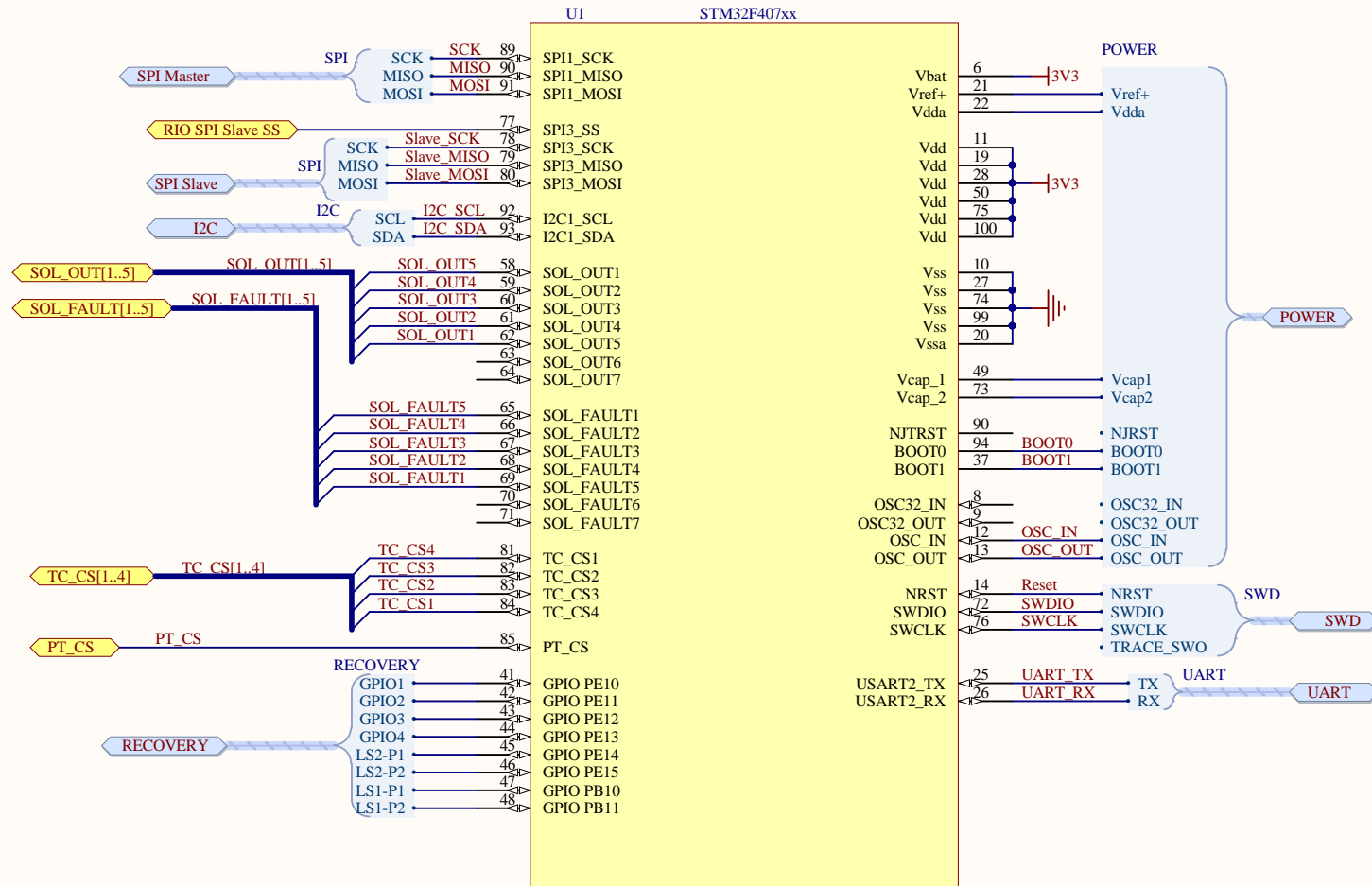


Title			Altium Limited L3, 12a Rodborough Rd Frenchs Forest NSW Australia 2086	
Size: Letter	Number:	Revision:		
Date: 4/29/2018	Time: 11:08:33 AM		Sheet of	
File: C:\Users\Public\Documents\Altium\Projects\C.A.M.E.R.O.N\cad\trunk\Schematics\Sensors\Pressure_Transducers.SchDoc				

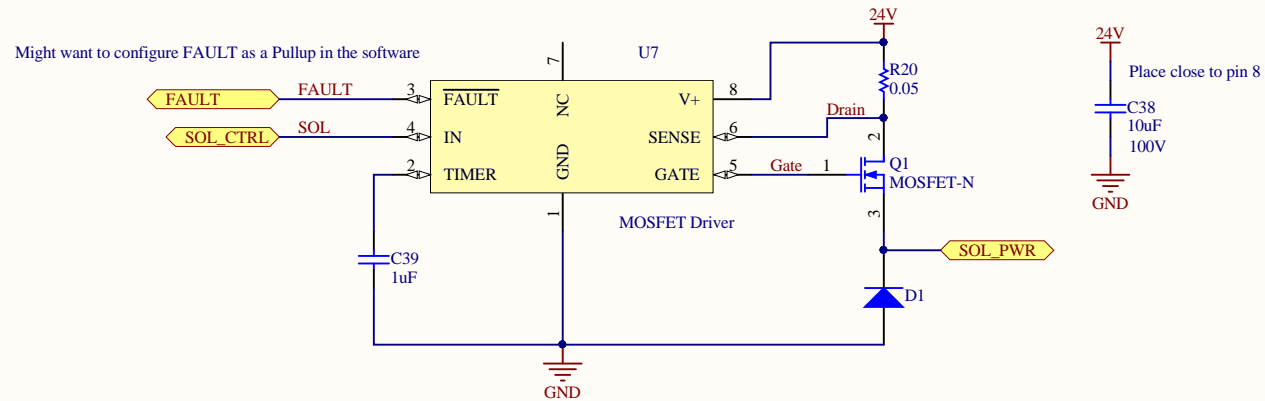
Recovery Driver

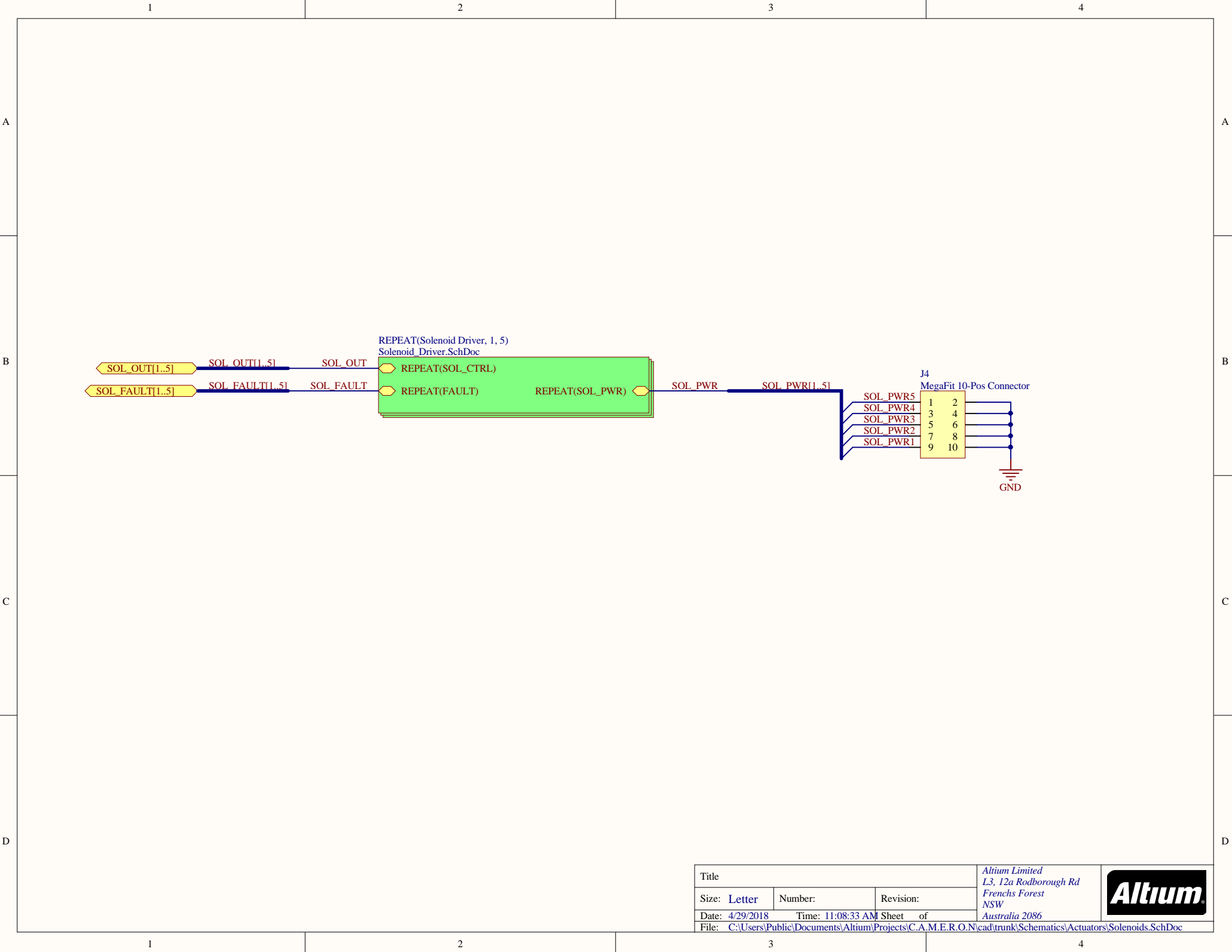


MCU

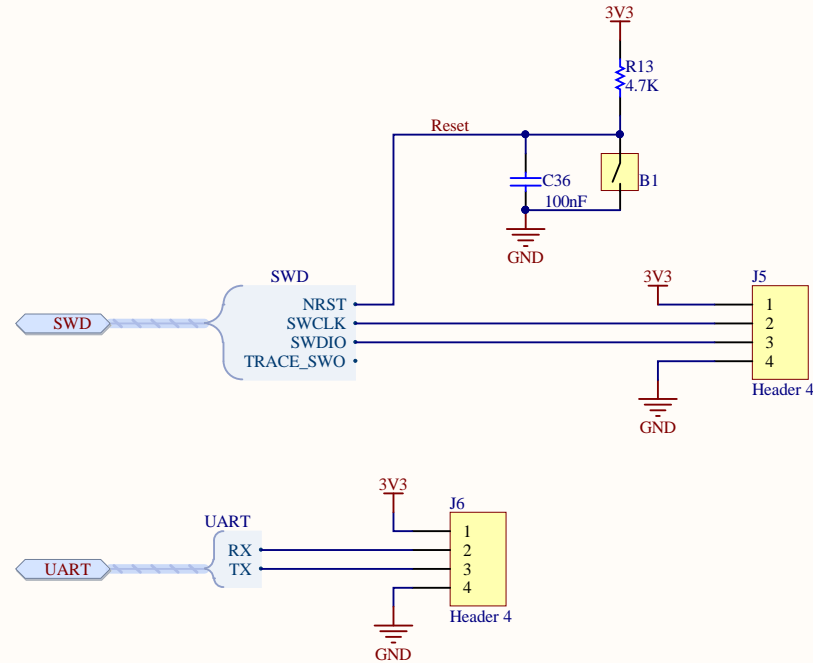


Solenoid Driver





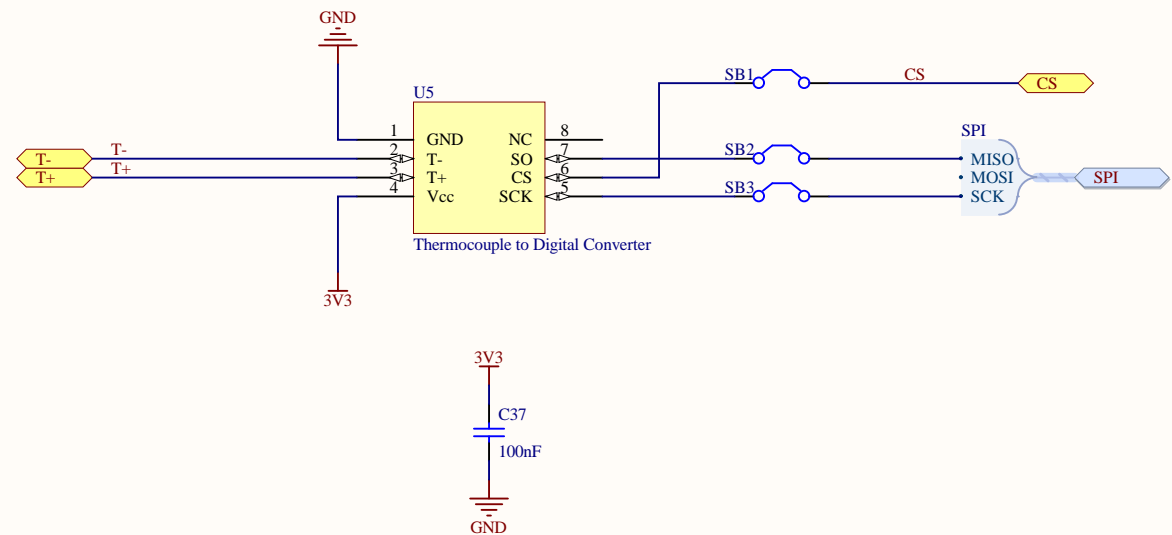
SWD Programming/Debugging Header



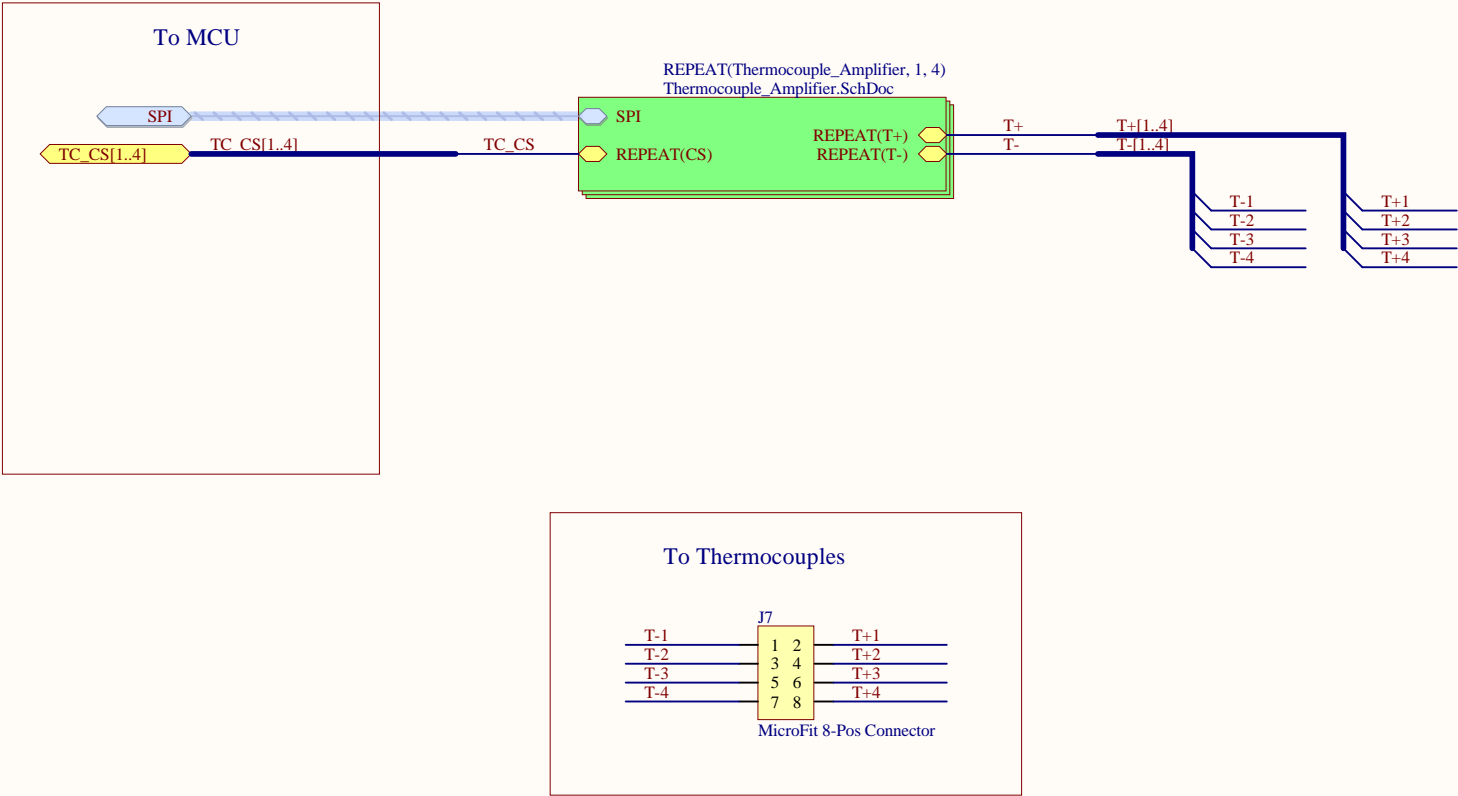
Schematic in reference to DIY ST/Link V2 Programmer for Micromouse
<http://www.micromouseonline.com/2014/01/05/mini-st-linkv2-programmer/>
 The exact same microcontroller was sourced for this schematic
 A different STM32 variant will require different connections

Title			Altium Limited L3, 12a Rodborough Rd Frenchs Forest NSW Australia 2086
Size: Letter	Number:	Revision:	
Date: 4/29/2018	Time: 11:08:33 AM	Sheet of	
File: C:\Users\Public\Documents\Altium\Projects\C.A.M.E.R.O.N\cad\trunk\Schematics\Breakouts\SWD_Breakout.SchDoc			Altium

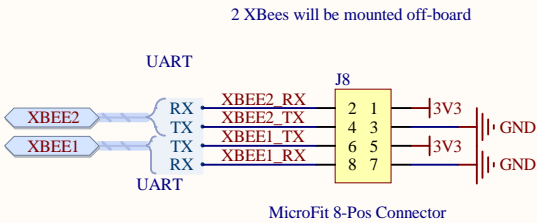
Thermocouple to Digital Converter



4x Thermocouple Circuits



XBee Connector



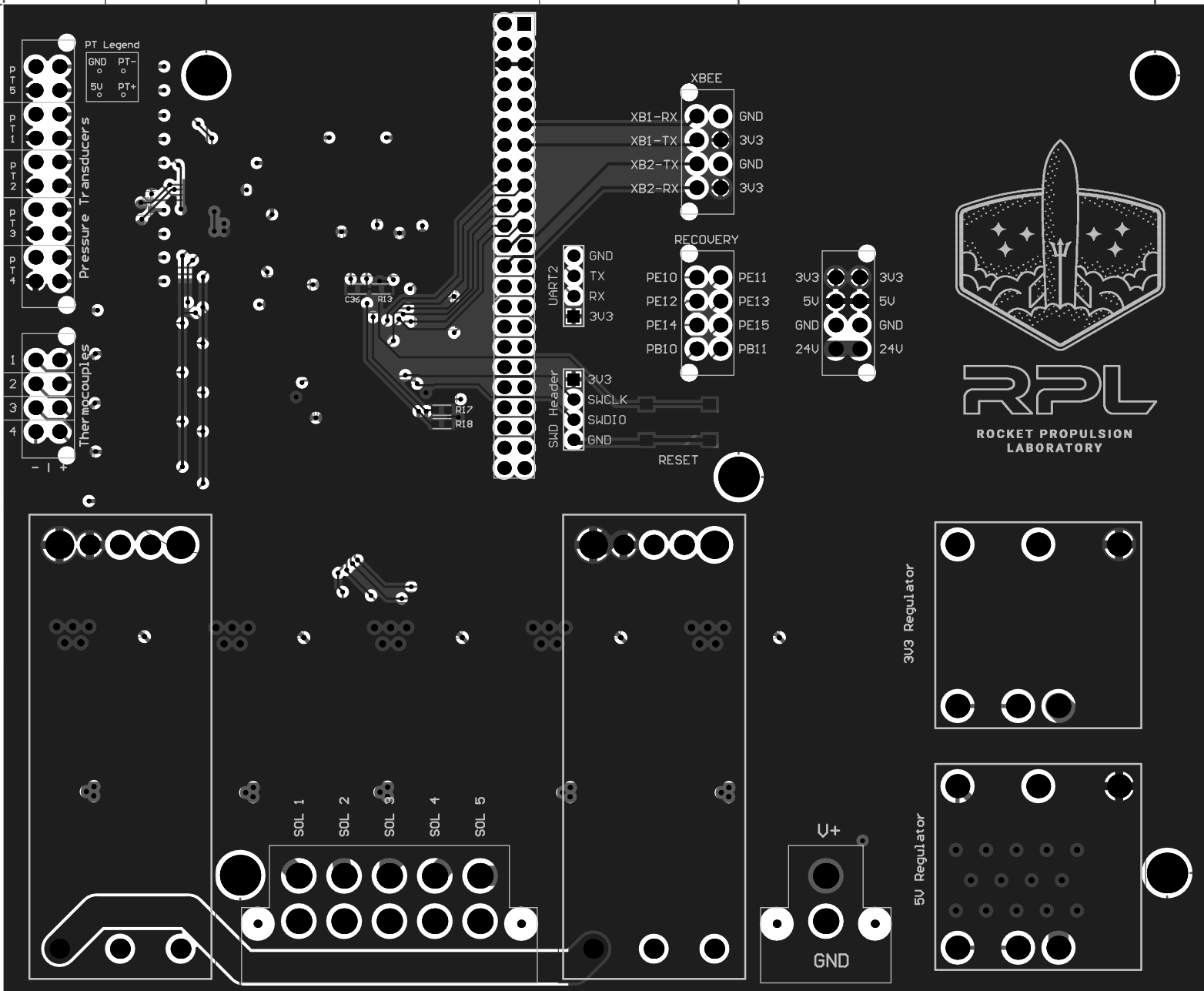
124.46

152.40

4.698

2.062

RJ45



1.989

3.950

4.590