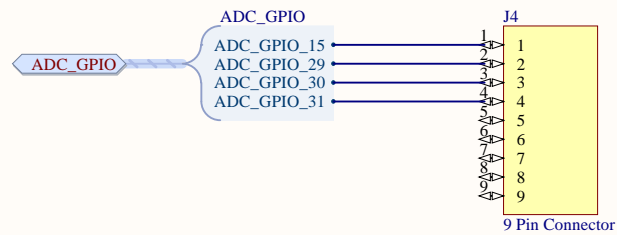
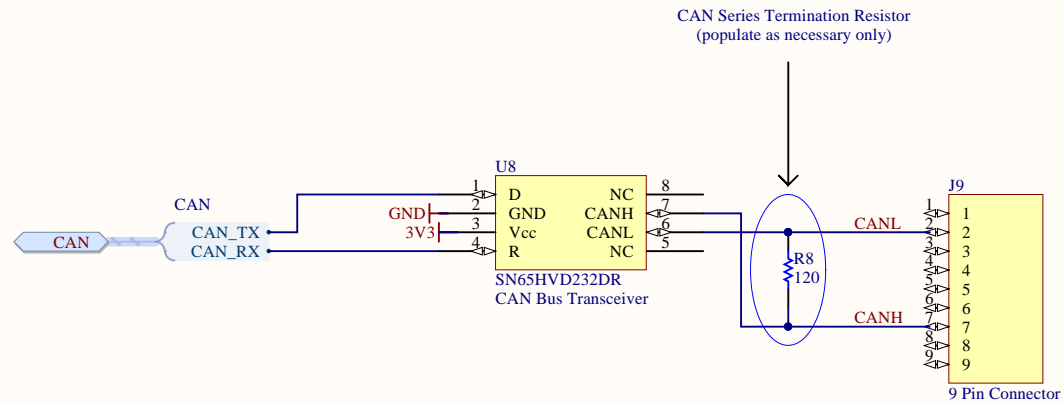


ADC GPIO Circuits

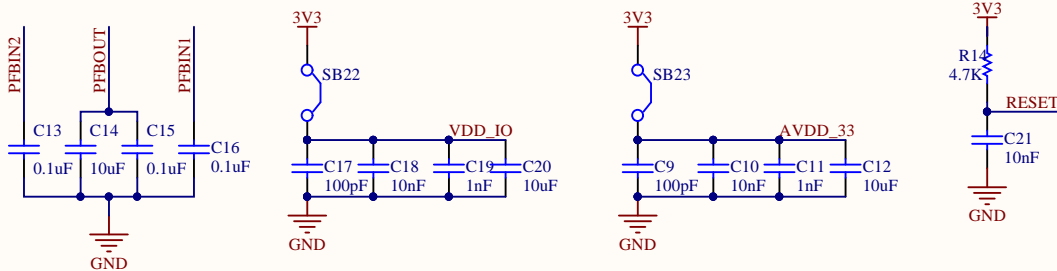
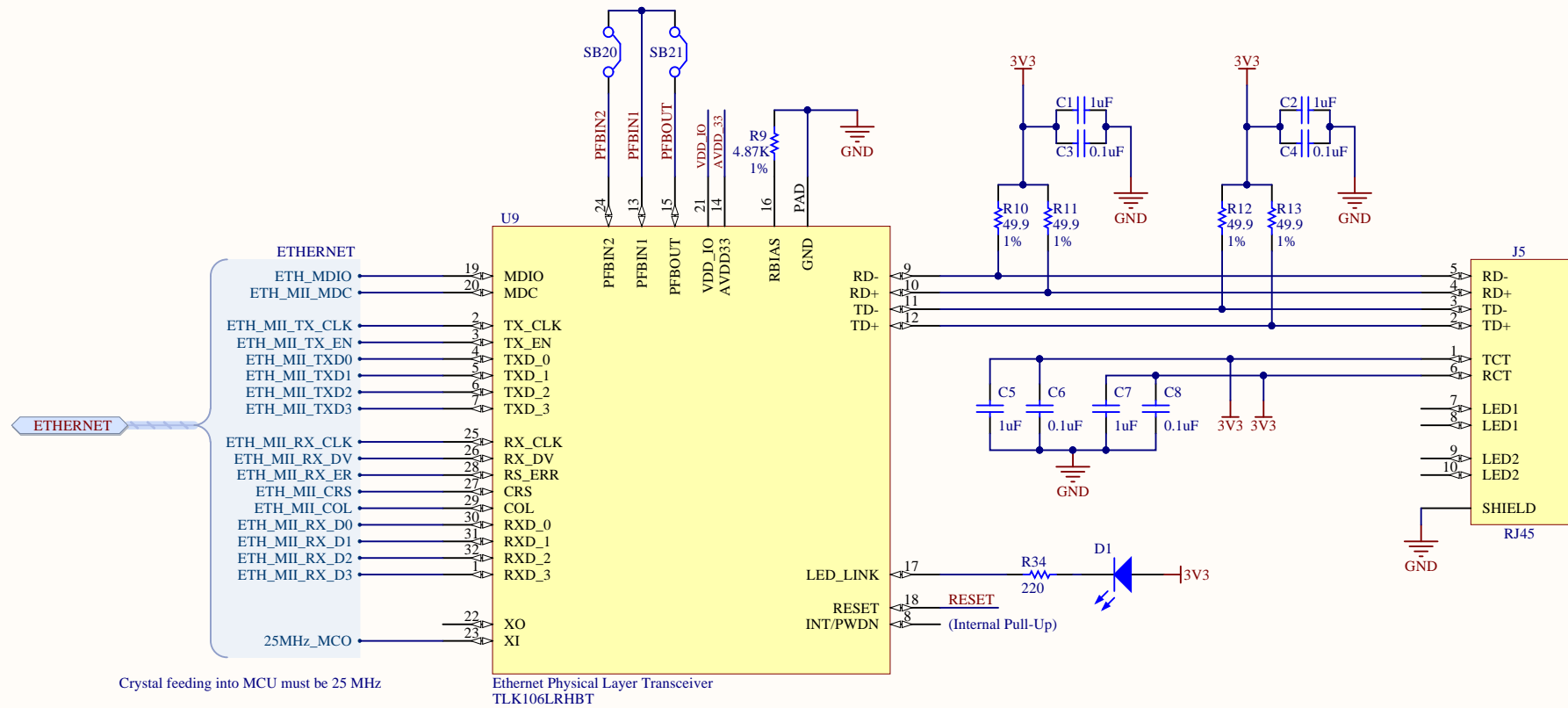


CAN Interface



Schematic in reference to Datasheet
<http://www.ti.com/lit/ds/symlink/sn65hvd230.pdf>

Ethernet Interface

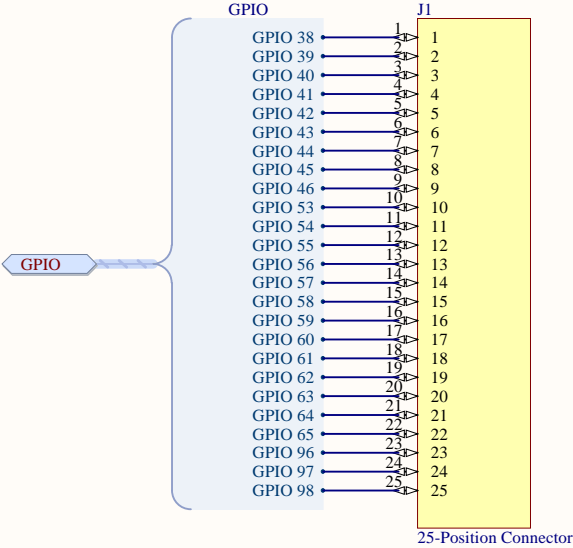


Schematic in reference to TLK10x Datasheet
<http://www.ti.com/lit/ds/symlink/tlk1051.pdf>

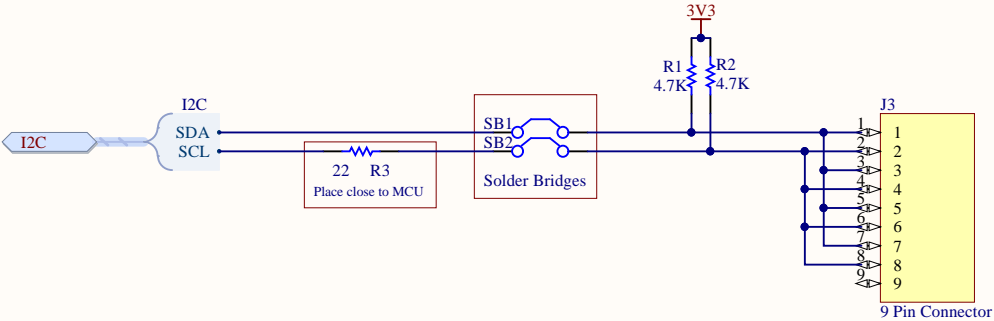
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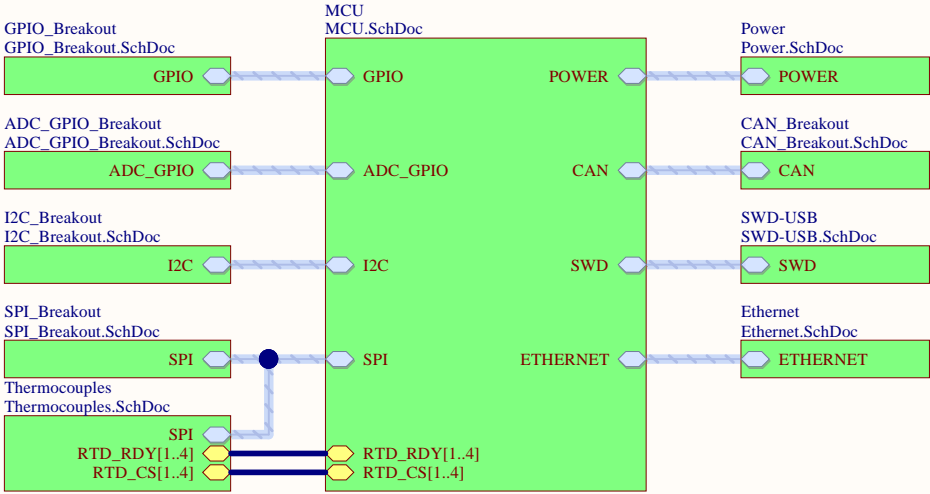
GPIO Breakout



I2C Breakout

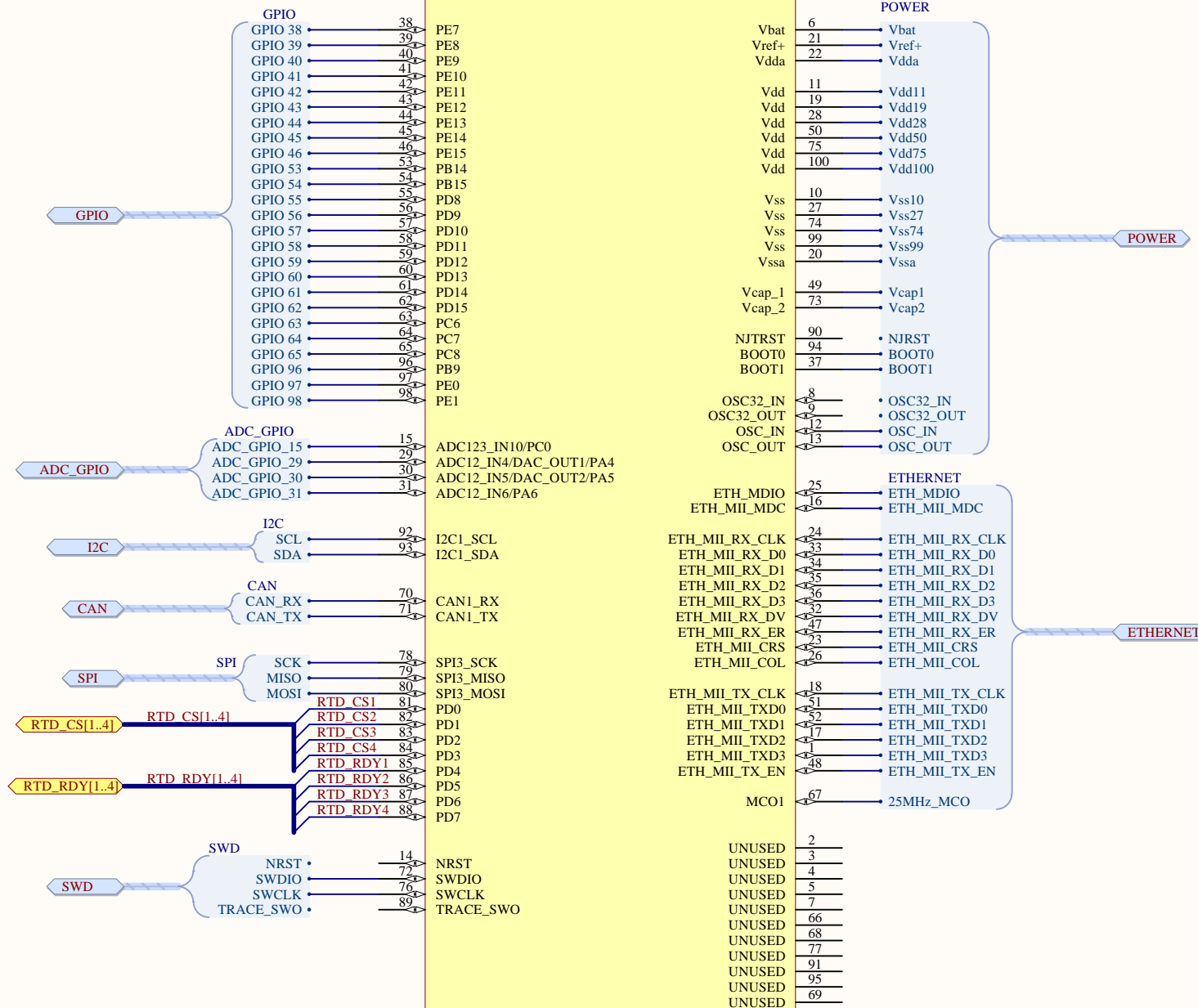


Top Level Block Diagram



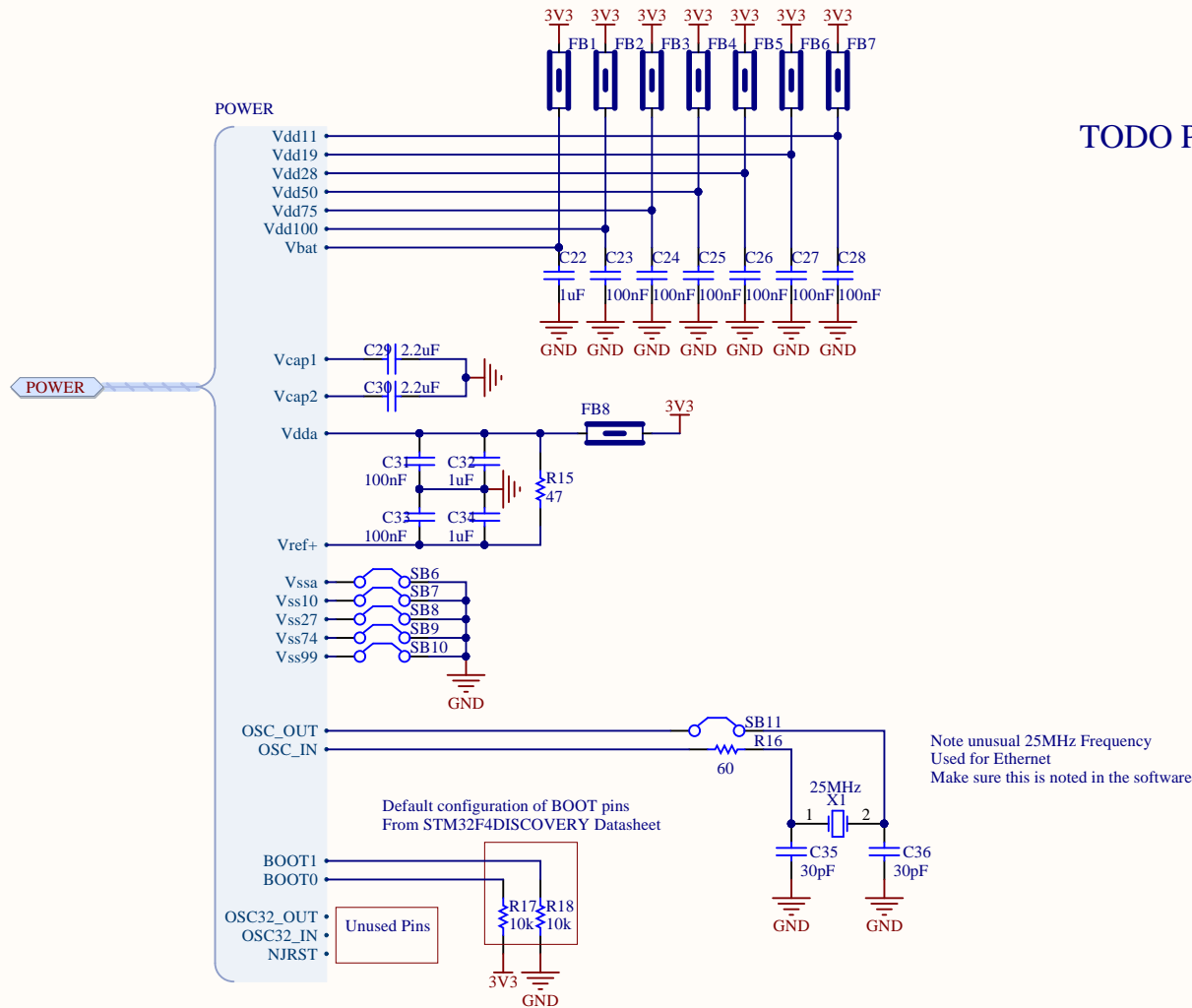
MCU

U1 STM32F407xx



Power

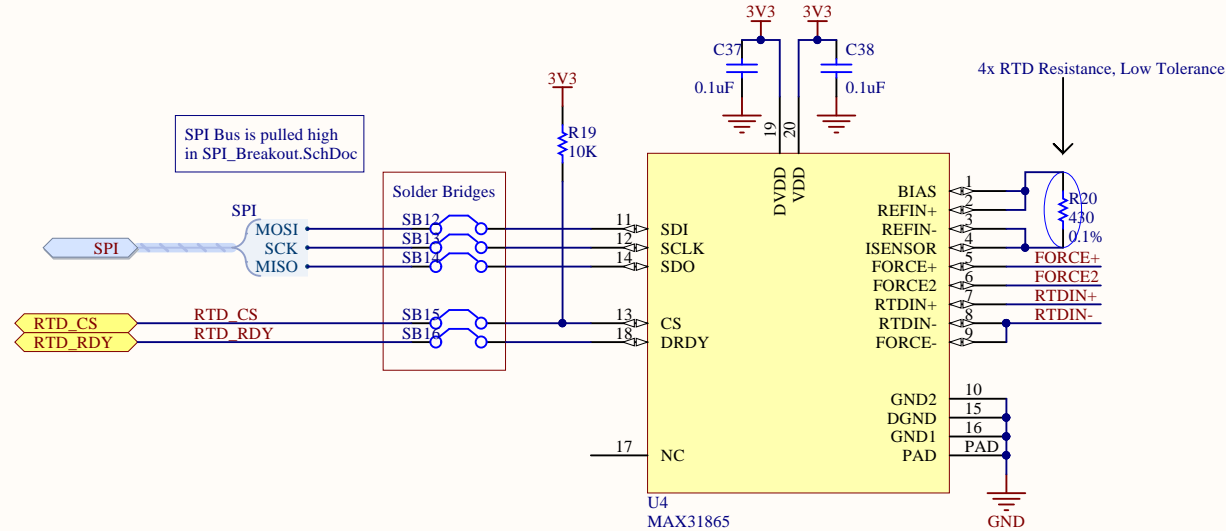
TODO POWER REGULATOR



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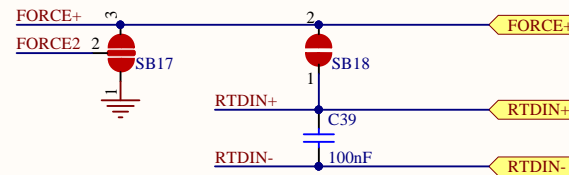
RTD Sensor Amplifier



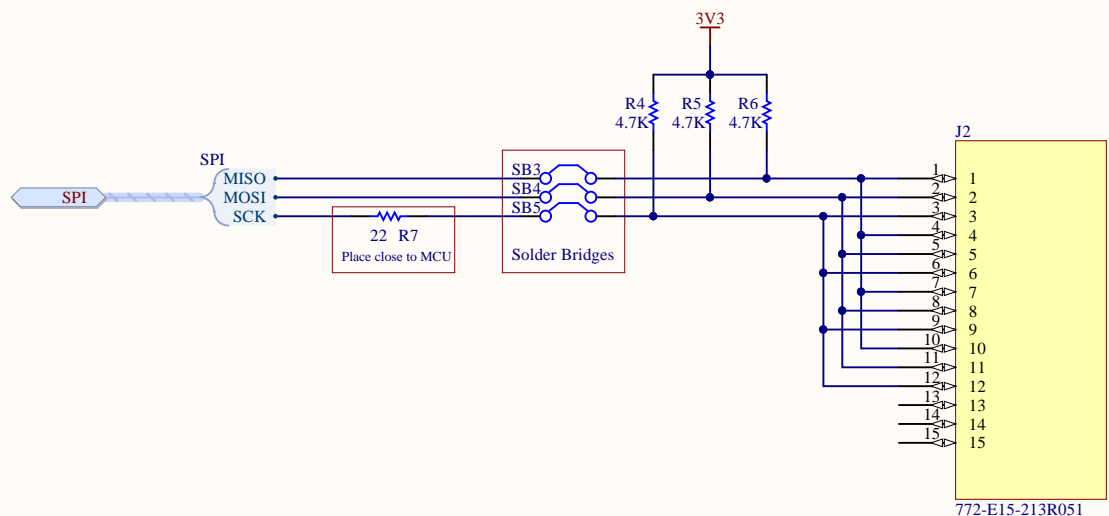
Schematic in reference to Adafruit's MAX31865 RTD PT100 Amplifier
<https://learn.adafruit.com/adafruit-max31865-rtd-pt100-amplifier/downloads>

To RTD Sensor

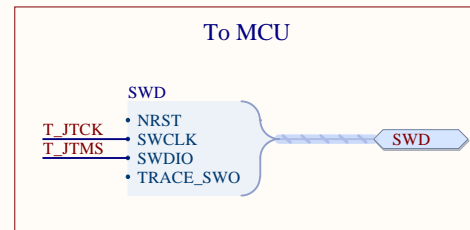
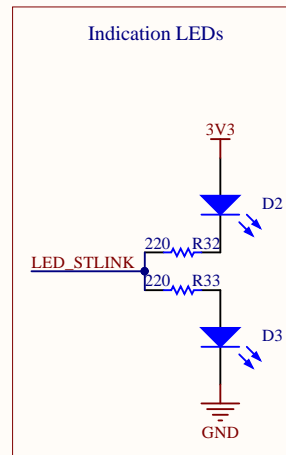
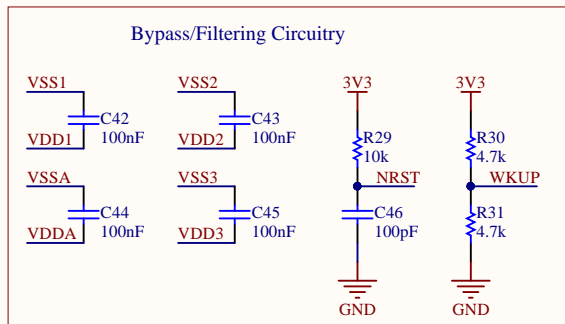
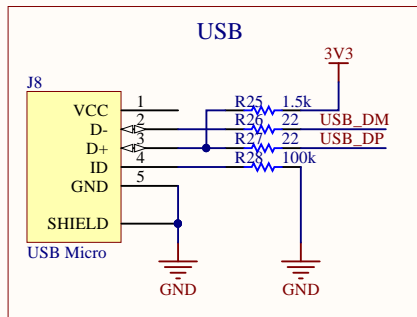
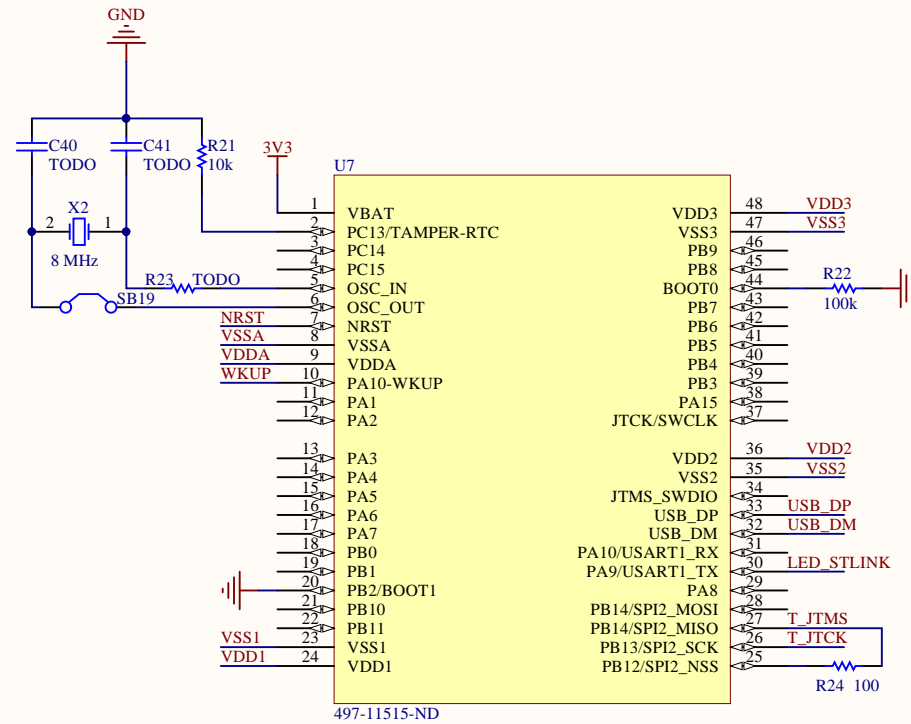
3-Wire RTD: Connect FORCE+ to FORCE2
 2-Wire RTD: Connect FORCE2 to GND
 2-Wire RTD: Connect FORCE+ to RTDIN+
 4-Wire RTD: Unsupported
 See MAX31865 Datasheet for more info



SPI Breakout



USB ST Link V2 Interface



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

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4x Thermocouple Circuits

