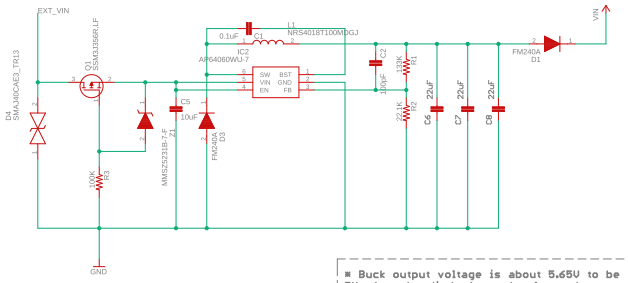
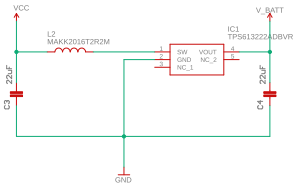
6V to 36V Buck



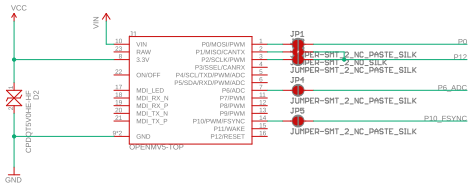
* Buck output voltage is about 5.65V to be 5V after the diode forward voltage drop.

3.3V to 5V Boost



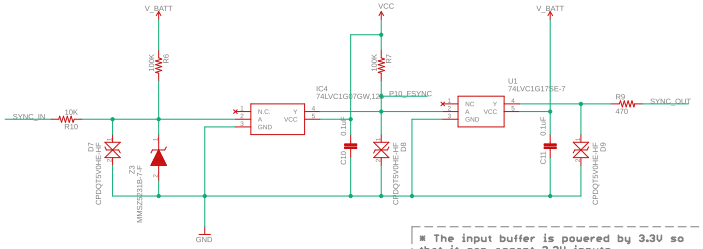
* 3.3V is used to create the 5V rail so it can be turned off in low power mode.

Shield Headers



FSYNC Input and Output

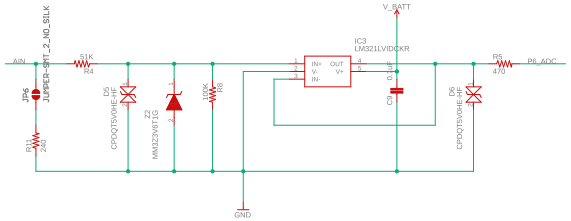
* The input buffer is open drain so that SYNCIN is OR'ed with multiple shields attached.



* The input buffer is powered by 3.3V so that it can accept 3.3V inputs.

ADC Input

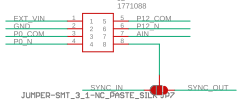
* The shunt resistor when connected allows the ADC circuit to read 4-20mA sensors.



* The front end scales a 0-5V signal down to 0-3.3V. Reverse/Over-Voltage is clamped.

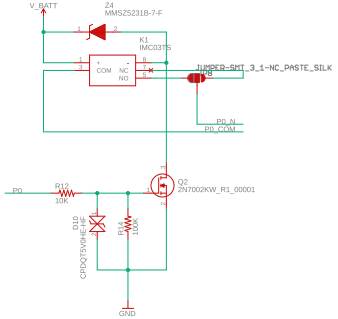
* The opamp is powered by 5V so that it can pass 0-3.3V signals (0-5V on input).

Terminal



Mechanical

Relay Control

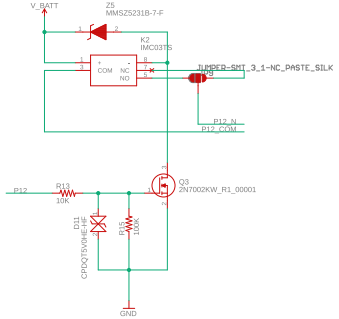


* Contact Ratings

15VDC, 4A, 60W
30VDC, 2A, 60W
110VDC, 0.54A, 60W
220VDC, 0.27A, 60W

125VAC, 0.5A, 62.5W
260VAC, 0.25A, 62.5W

E.g. the power switch must be ~60W or 62.5VA.



* Contact Ratings

15VDC, 4A, 60W
30VDC, 2A, 60W
110VDC, 0.54A, 60W
220VDC, 0.27A, 60W

125VAC, 0.5A, 62.5W
260VAC, 0.25A, 62.5W

E.g. the power switch must be ~60W or 62.5VA.

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