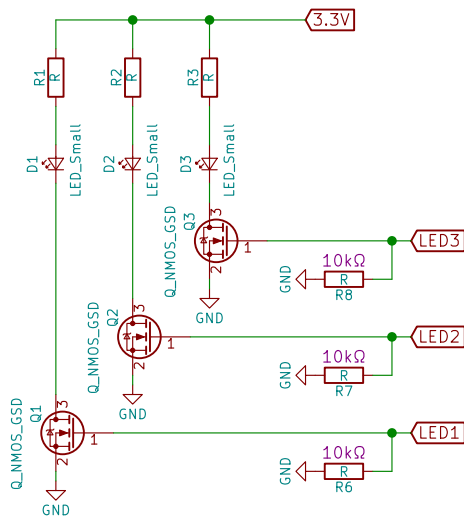


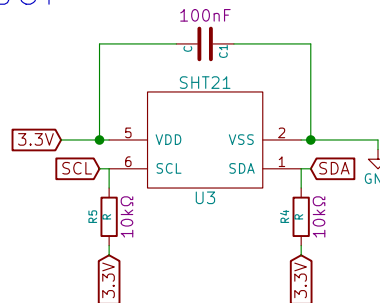
LEDs



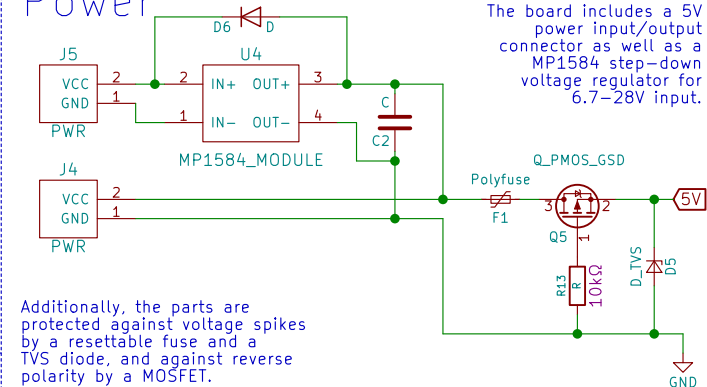
SHT21 Sensor

The Sensirion SHT21 sensor measures both temperature and humidity.

Temperature measurements are accurate to $\pm 0.3^{\circ}\text{C}$, humidity is accurate to $\pm 2\%\text{RH}$.

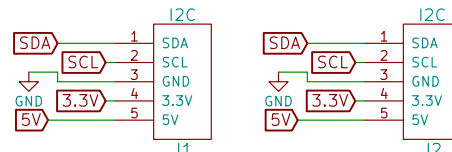


Power

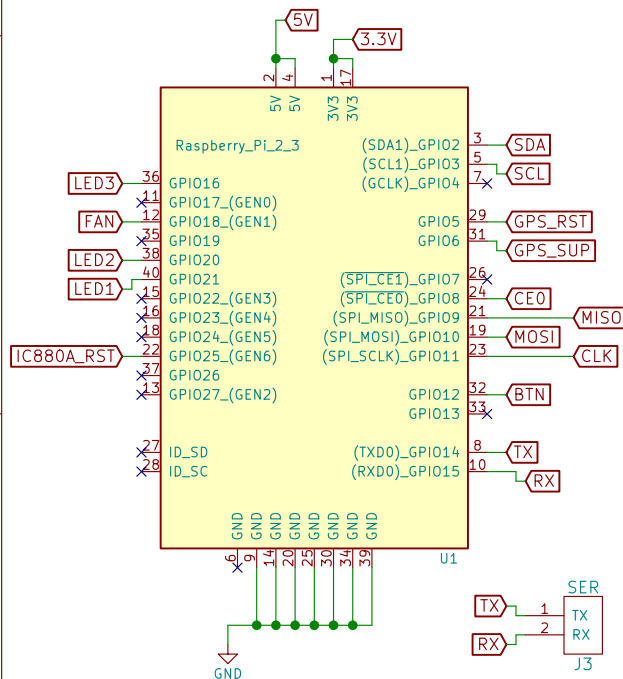


Additionally, the parts are protected against voltage spikes by a resettable fuse and a TVS diode, and against reverse polarity by a MOSFET.

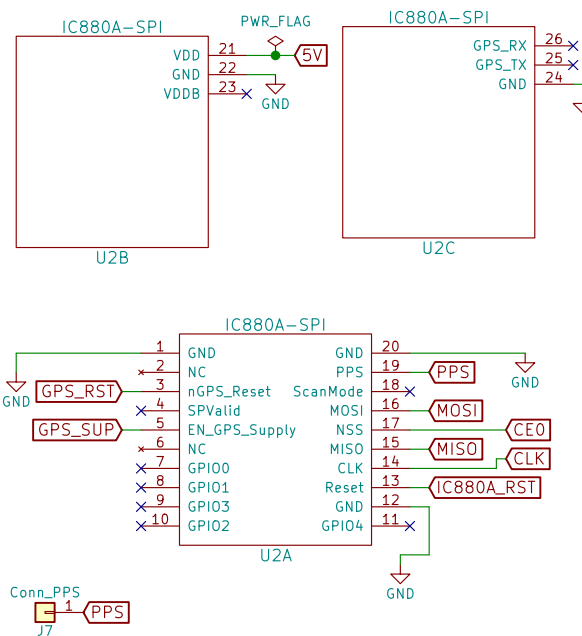
I²C Breakouts



Raspberry Pi

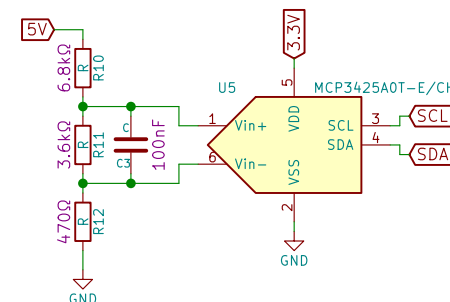


iC880A



ADC

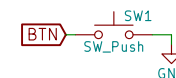
This is a 16-Bit Analog-to-Digital Converter that is wired up to measure the Raspberry Pi supply voltage.



Button

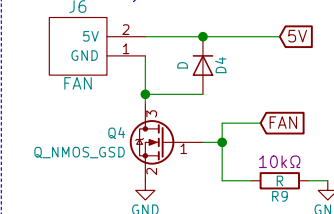
A simple button connected to GPIO12. It could be programmed to shut down the Rpi on button press.

Note that you need to enable the internal pull-up for the button to work.



DC Fan

Connector for a 5V DC fan with a flyback diode.



Buy from <https://shop.coredump.ch/>
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Sheet: /
File: backplane.sch

Title: iC880A RPi Backplane

Size: A4 Date: 2017-10-10

KiCad E.D.A. kicad 4.0.7

Rev: v1.4

Id: 1/1