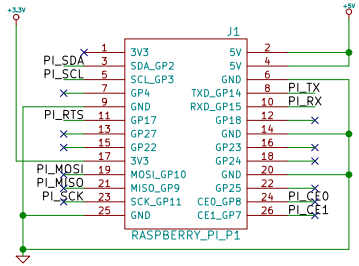
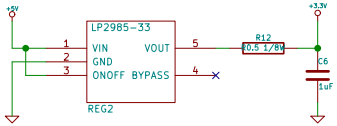
Raspberry Pi Header

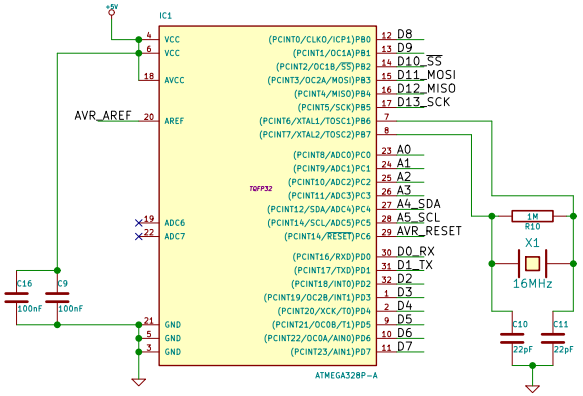


3.3V LDO

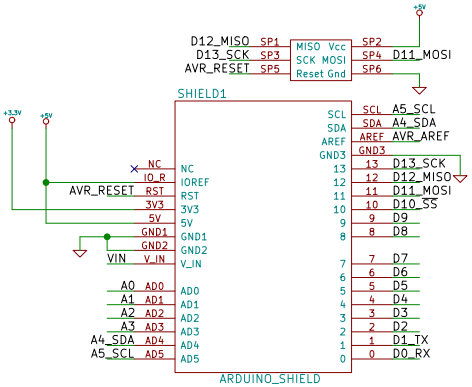


500mΩ R12 is to drop the output voltage slightly under load, so as not to supply the Pi.

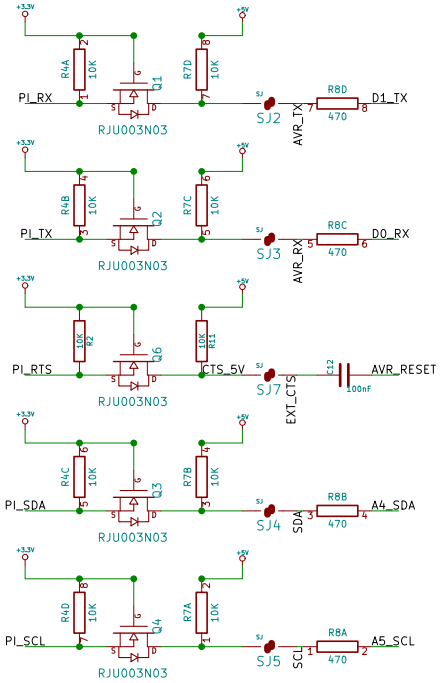
MCU



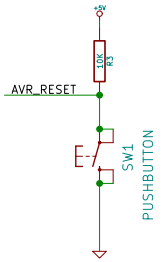
Arduino Header



I/O Level Shifting



Reset Circuit

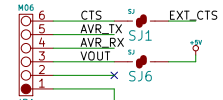


RC network stretches the low pulses of UART data to create visible blinking pulses.

Discharge RC=0.2s

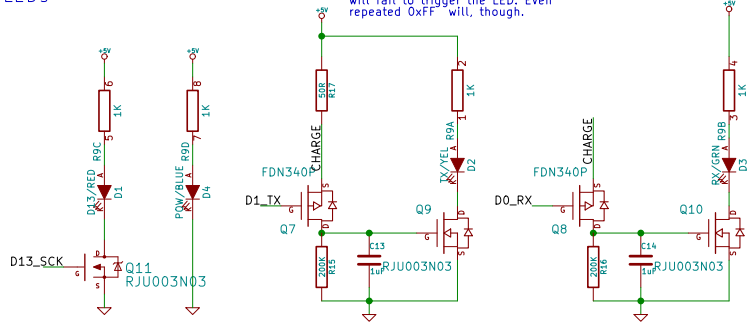
Charging limited by R17, (RC=50us.) This does mean some sequences, like 0xFF at 115200 baud (one 8us pulse) will fail to trigger the LED. Even repeated 0xFF will, though.

External Serial Header



Compatible with FTDI cables / Freetronics USBSerial

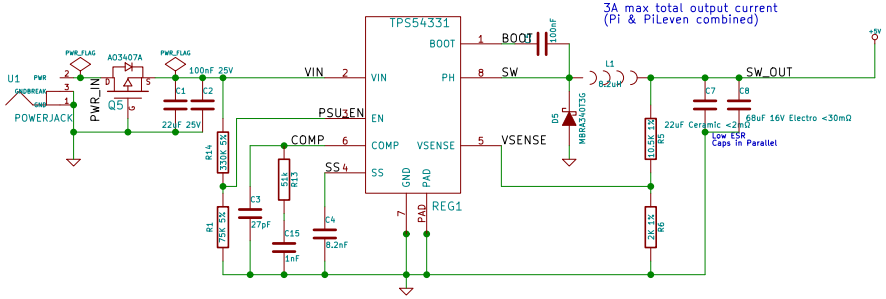
LEDs



Power Supply

Input voltage
7V – 18V
(9V – 14V recommended)

3A max total output current
(Pi & PiLeven combined)



Sheet: /
File: PiLeven.sch

Title: PiLeven

Size: A3	Date: 21 apr 2014	Rev:
KiCad E.D.A. kicad (2014-11-09 BZR 5259)-product		Id: 1/1