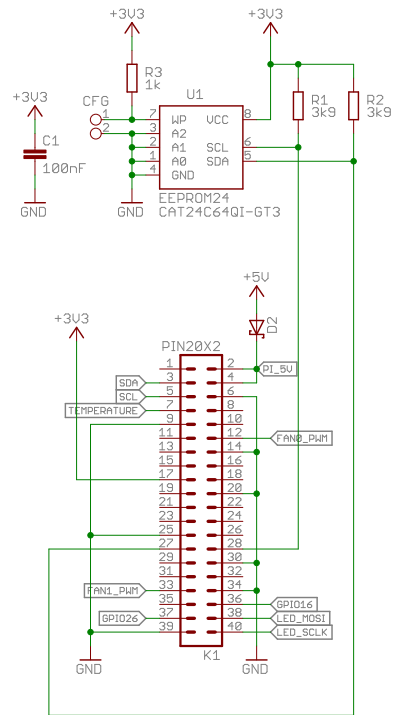
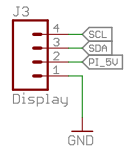


Raspberry Pi Hat Connection



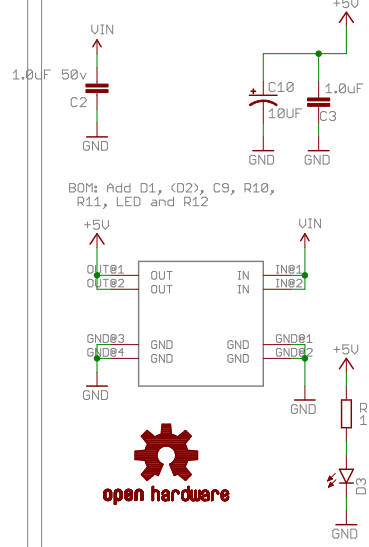
Display Power

Also suitable for Adafruit small LCD display



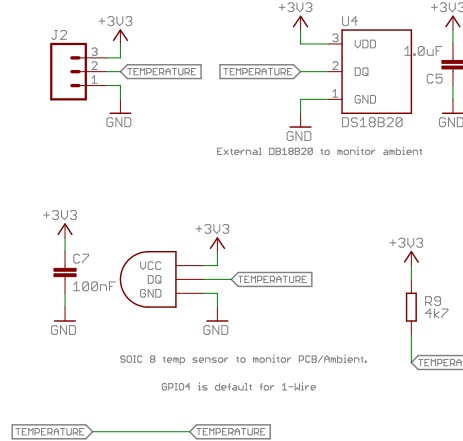
Check R7/R8 if display uses I2C pullups

Regulation

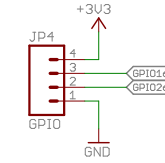


open hardware

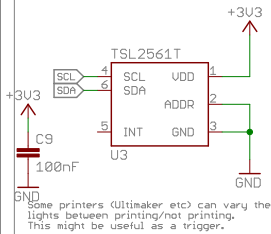
Temperature Sensing



General use
GPIOs
E.g. Filament sensor.



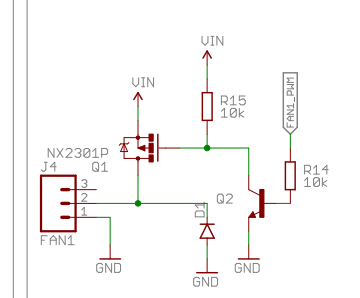
Light level sensor



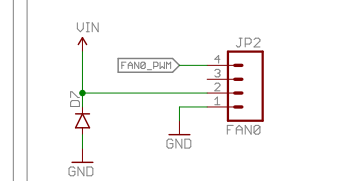
FAN Control

NB: Fan voltage must match supply voltage

3 Pin Fan

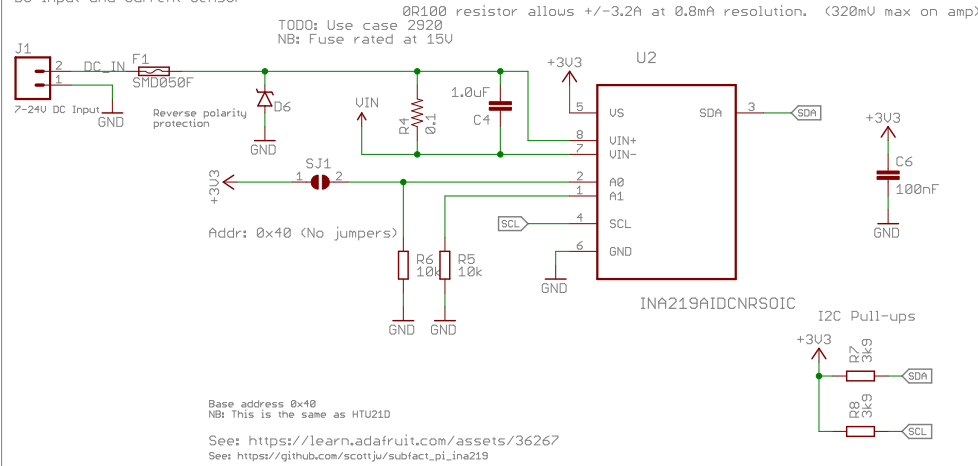


4 Pin (PWM) Fan



GPIO12/13 -> Pins 32/33 -> PWM0 and PWM1

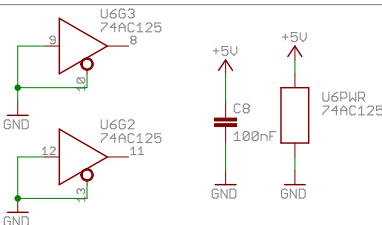
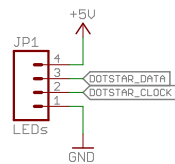
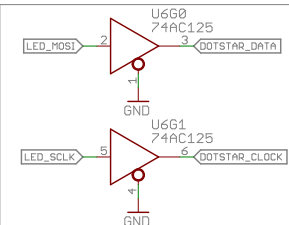
DC Input and Current Sensor



Possible extra features:
4) On-board string of Neopixel (or other) LEDs to light the printer
6) GPIO (clk/data) for load cell (filament weight)?
7) GPIO for NFC reader (I2C + reset)

5, 6 & 7 - separate PCB by base of printer.

light sensor



Drawn by:
Stephen Harrison.
Pi Hat original by Ivan Zilic

PiPowerHat

27/02/2017 14:10

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v0.1