Power Circuit:

U2
IN OUT
EN
GND BP

RAW

3.3V
TP1

C1 10uF
C4 0.1uF

GND
3.3V MIC5205

GND GND
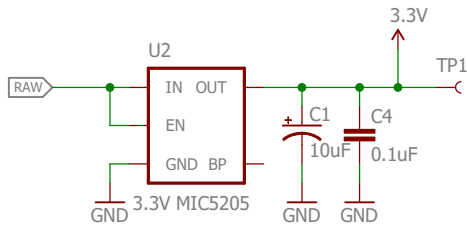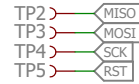
Max Voltage Input: 16VDC
Max Current Output: 150mA

SPI Header:

TP2 — MISO
TP3 — MOSI
TP4 — SCK
TP5 — RST

MicroSD Socket:

3.3V
U3

1 NC
2 CS
3 DI
4 VCC
5 SCK
6 GND
7 DO
8 RSV

CS
MOSI

SCK

MISO

GND3 SHIELD
CD1 CD1
GND1 SHIELD
CD2 CD2

CD

GND

microSD Socket

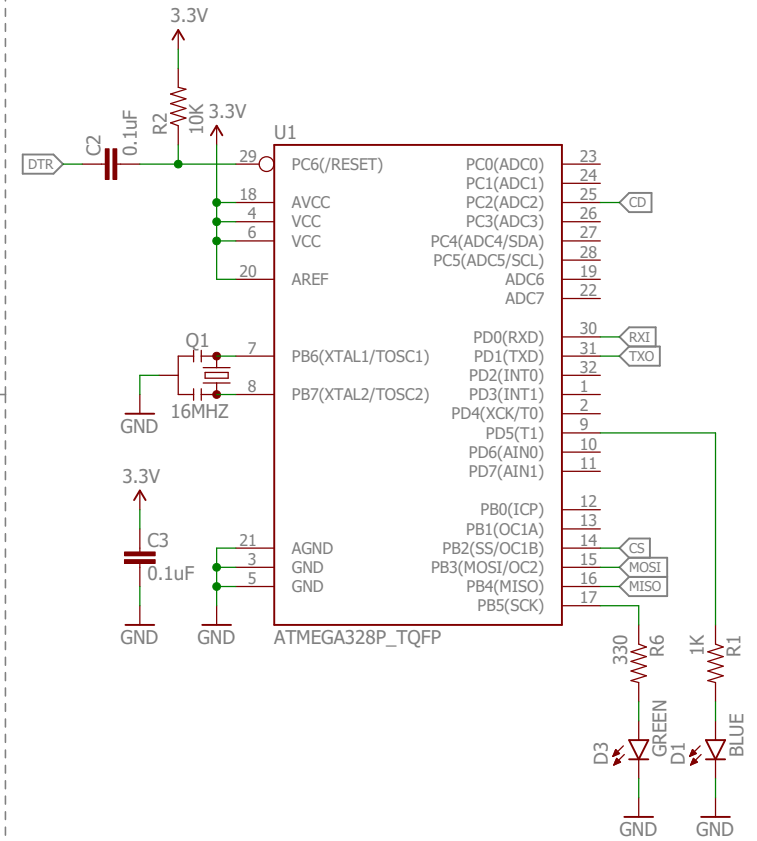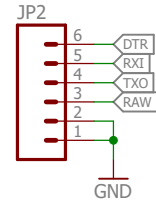# Serial Header:

3.3V

C3 0.1uF

GND

JP2

6 DTR
5 RXI
4 TXO
3 RAW
2
1

GND

U1 — ATMEGA328P_TQFP

3.3V

C2 0.1uF
R2 10K
3.3V

DTR

29 PC6(/RESET)
18 AVCC
4   VCC
6   VCC
20 AREF

7   PB6(XTAL1/TOSC1)
8   PB7(XTAL2/TOSC2)

Q1
16MHZ
GND

21 AGND
3   GND
5   GND

GND GND

PC0(ADC0)   23
PC1(ADC1)   24
PC2(ADC2)   25
PC3(ADC3)   26
PC4(ADC4/SDA)   27
PC5(ADC5/SCL)   28
ADC6   19
ADC7   22

PD0(RXD)   30
PD1(TXD)   31
PD2(INT0)   32
PD3(INT1)   1
PD4(XCK/T0)   2
PD5(T1)   9
PD6(AIN0)   10
PD7(AIN1)   11

PB0(ICP)   12
PB1(OC1A)   13
PB2(SS/OC1B)   14
PB3(MOSI/OC2)   15
PB4(MISO)   16
PB5(SCK)   17

CD

RXI
TXO

CS
MOSI
MISO

R6 330
GREEN
D3

R1 1K
BLUE
D1

GND GND

TITLE: OpenLog_v15

Design by: N. Seidle
Revised by: Patrick Alberts, Pete Lewis

REV:
V15

Date: 3/21/2016 2:16 PM   Sheet: 1/1

open hardware

0.8mm Thin PCB

Remember, RXI is an input pin into OpenLog.

This board is meant to couple directly to Arduino Pro and Pro Mini.

This board cannot be directly connected to an FTDI Basic.

To connect OpenLog to an FTDI basic, you will need to swap
TX and RX lines between boards.