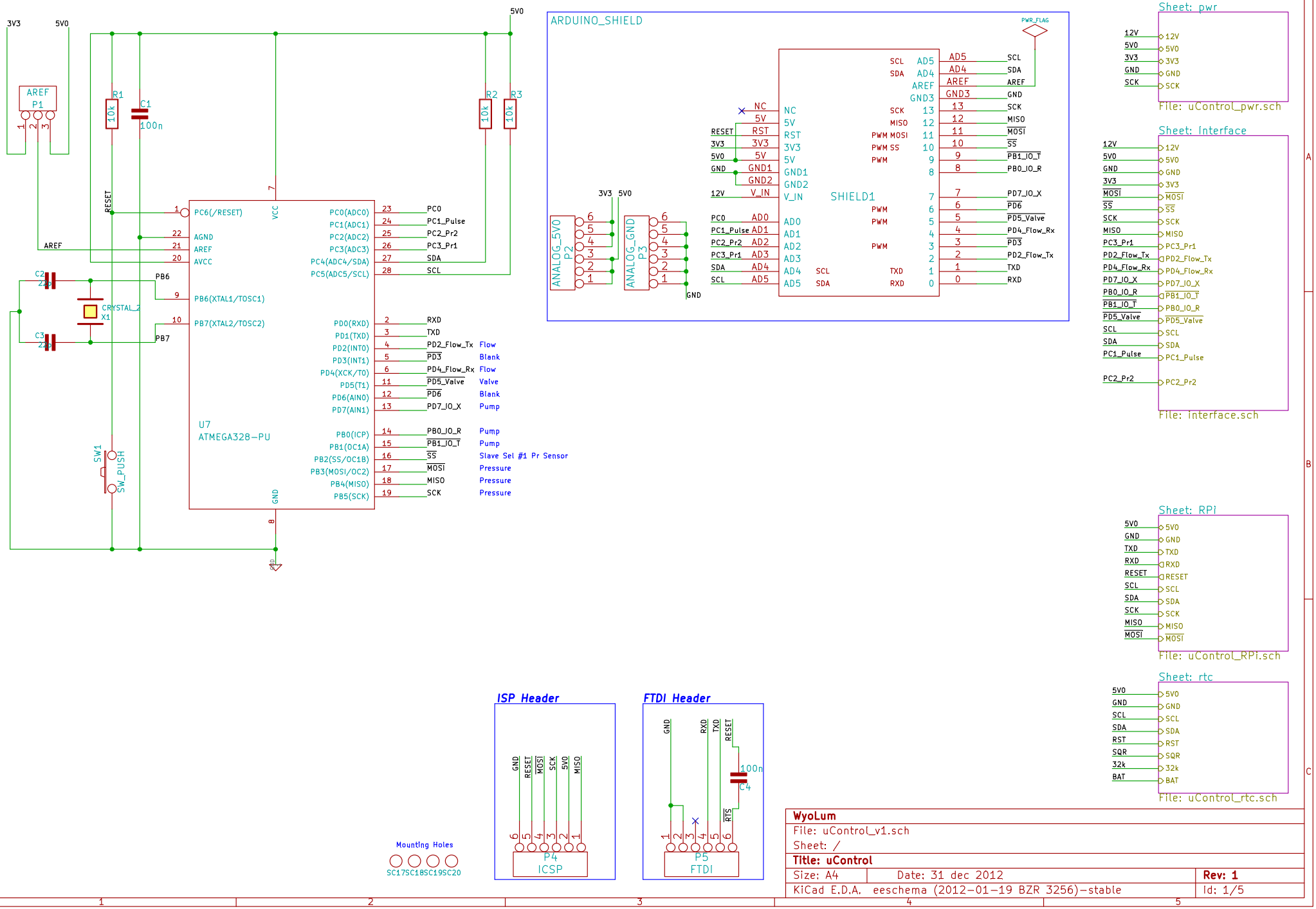
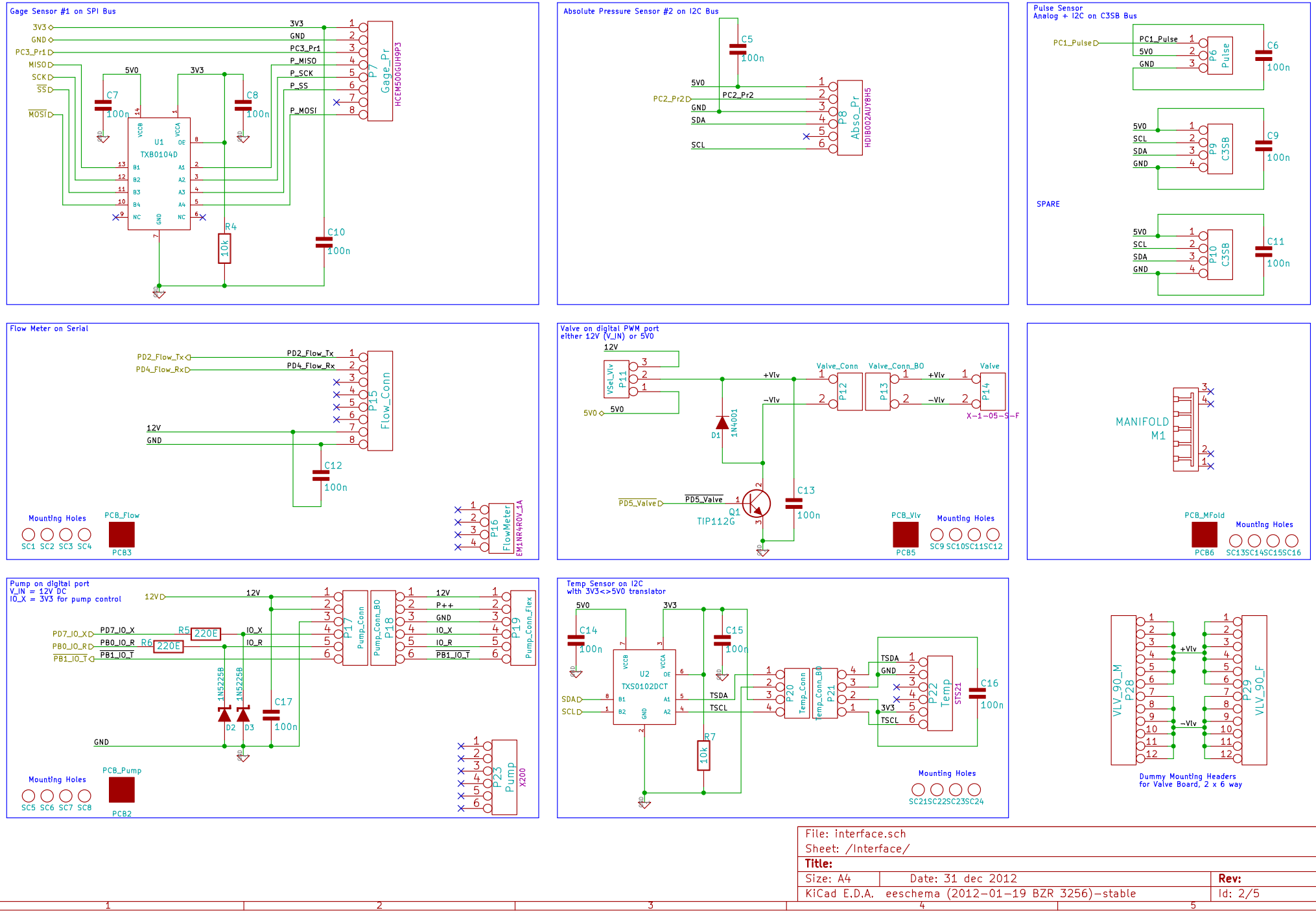
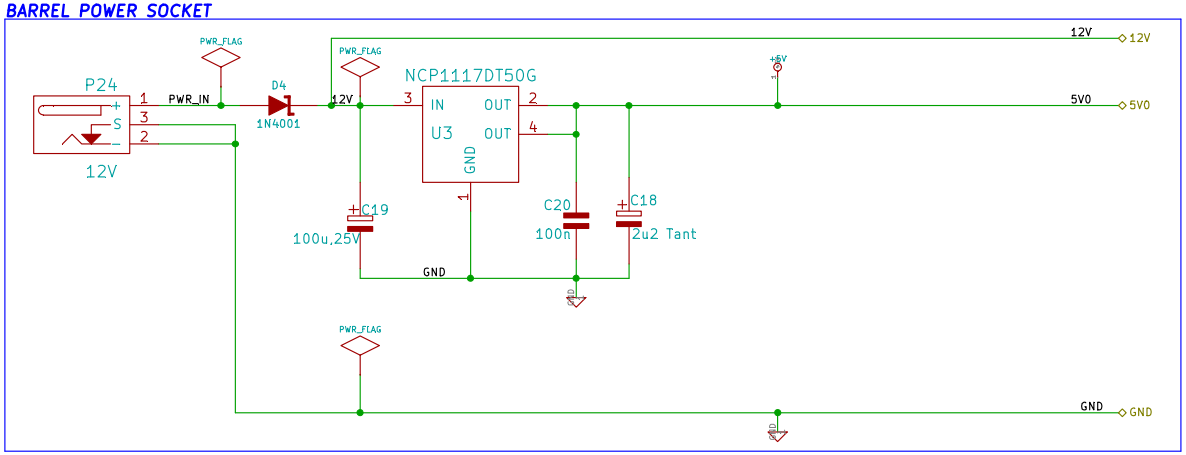

3V3
5V0
AREF
P1
R1
10k
C1
100n
R2
10k
R3
10k
RESET
AREF
C2
22p
C3
22p
PB6
PB7
CRYSTAL_2
X1
SW1
SW_PUSH
U7
ATMEGA328-PU
PC6(/RESET)
AGND
AREF
AVCC
VCC
GND
PB6(XTAL1/TOSC1)
PB7(XTAL2/TOSC2)
PC0(ADC0)
PC1(ADC1)
PC2(ADC2)
PC3(ADC3)
PC4(ADC4/SDA)
PC5(ADC5/SCL)
PD0(RXD)
PD1(TXD)
PD2(INT0)
PD3(INT1)
PD4(XCK/T0)
PD5(T1)
PD6(AIN0)
PD7(AIN1)
PB0(ICP)
PB1(OC1A)
PB2(SS/OC1B)
PB3(MOSI/OC2)
PB4(MISO)
PB5(SCK)
PC0
PC1_Pulse
PC2_Pr2
PC3_Pr1
SDA
SCL
RXD
TXD
PD2_Flow_Tx
PD3
PD4_Flow_Rx
PD5_Valve
PD6
PD7_IO_X
PB0_IO_R
PB1_IO_T
SS
MOSI
MISO
SCK
Flow
Blank
Flow
Valve
Blank
Pump
Pump
Pump
Slave Sel #1 Pr Sensor
Pressure
Pressure
Pressure
ARDUINO_SHIELD
PWR_FLAG
ANALOG_5V0
P2
ANALOG_GND
P3
SHIELD1
NC
5V
RST
3V3
GND1
GND2
V_IN
AD0
AD1
AD2
AD3
AD4
AD5
SCL
SDA
AREF
GND3
SCK
MISO
PWM MOSI
PWM SS
PWM
TXD
RXD
PD7_IO_X
PD6
PD5_Valve
PD4_Flow_Rx
PD3
PD2_Flow_Tx
PB1_IO_T
PB0_IO_R
Sheet: pwr
12V
5V0
3V3
GND
SCK
File: uControl_pwr.sch
Sheet: Interface
File: interface.sch
Sheet: RPi
RESET
File: uControl_RPi.sch
Sheet: rtc
RST
SQR
32k
BAT
File: uControl_rtc.sch
ISP Header
P4
ICSP
FTDI Header
P5
FTDI
100n
C4
RTS
Mounting Holes
SC17SC18SC19SC20
WyoLum
File: uControl_v1.sch
Sheet: /
Title: uControl
Size: A4
Date: 31 dec 2012
Rev: 1
KiCad E.D.A. eeschema (2012-01-19 BZR 3256)-stable
Id: 1/5

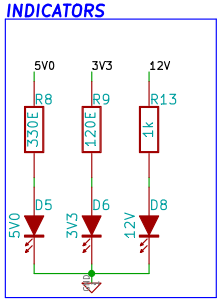


File: interface.sch		
Sheet: /Interface/		
Title:		
Size: A4	Date: 31 dec 2012	**Rev:**
KiCad E.D.A.	eeschema (2012-01-19 BZR 3256)-stable	Id: 2/5

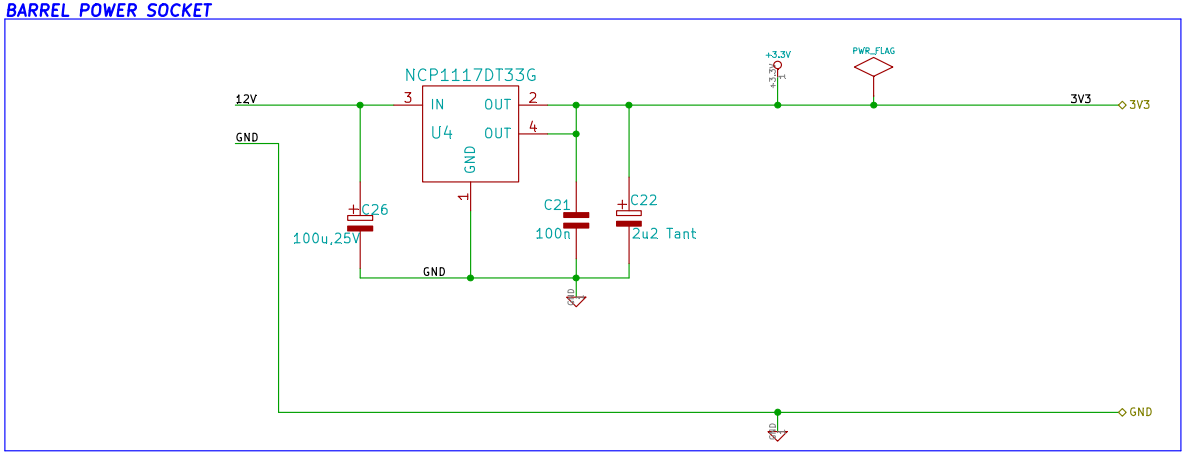
BARREL POWER SOCKET



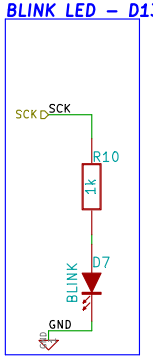
INDICATORS



BARREL POWER SOCKET



BLINK LED – D13



Logo_Wyolum

G1
Logo_Wyolum

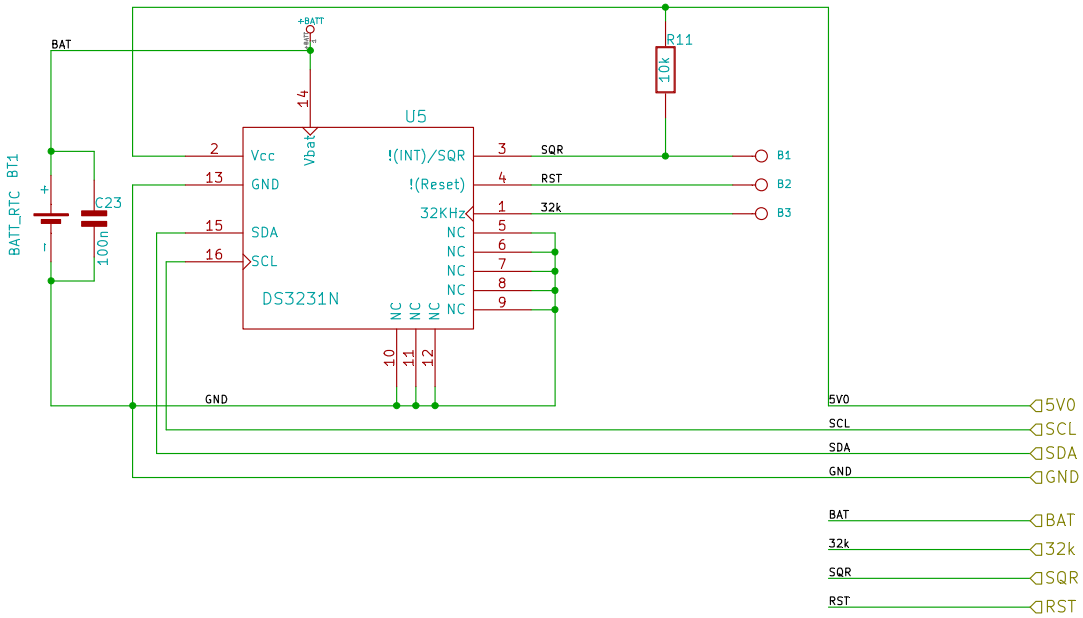
G2
Logo_OH

G3
Logo_OH

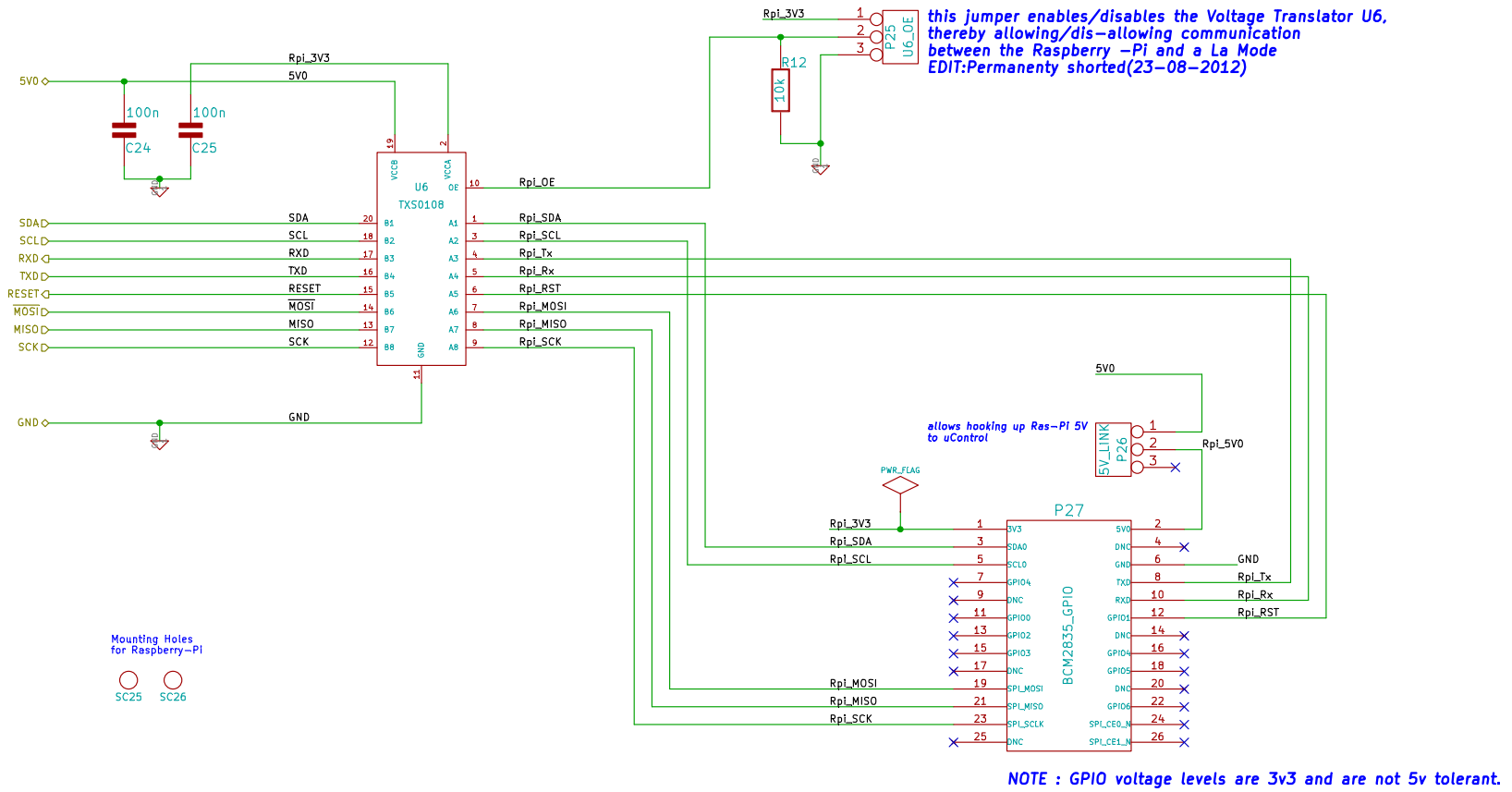
G4
PCB

PCB1

WyoLum		
File: uControl_pwr.sch		
Sheet: /pwr/		
Title: uControl		
Size: A4	Date: 31 dec 2012	**Rev: 1**
KiCad E.D.A. eeschema (2012-01-19 BZR 3256)-stable		Id: 3/5



WyoLum		
File: uControl_rtc.sch		
Sheet: /rtc/		
Title: uControl		
Size: A4	Date: 31 dec 2012	**Rev: 1**
KiCad E.D.A. eeschema (2012-01-19 BZR 3256)-stable		Id: 4/5



WyoLum		
File: uControl_RPi.sch		
Sheet: /RPi/		
Title: uControl		
Size: A4	Date: 31 dec 2012	**Rev: 1**
KiCad E.D.A. eeschema (2012-01-19 BZR 3256)-stable		Id: 5/5