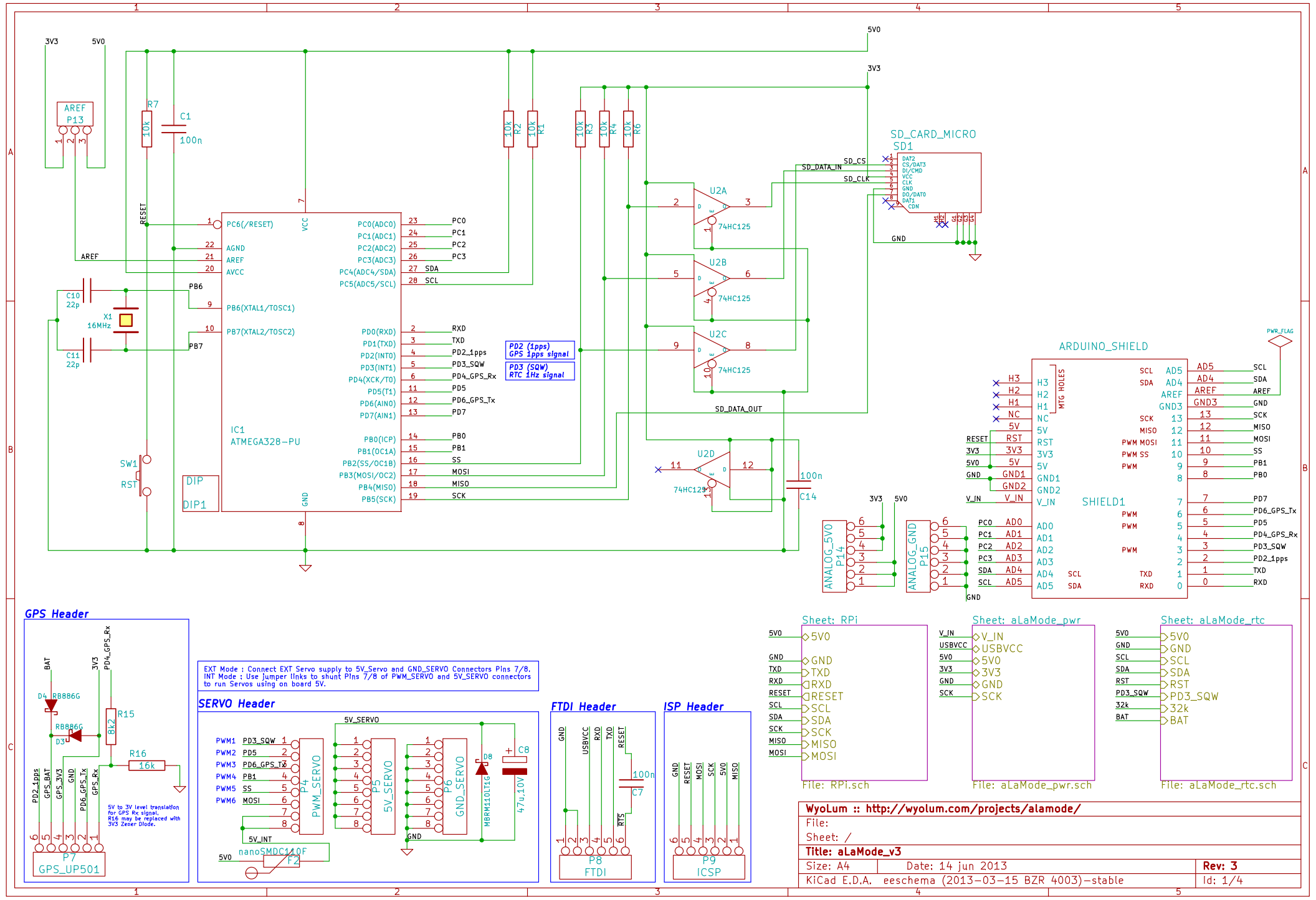
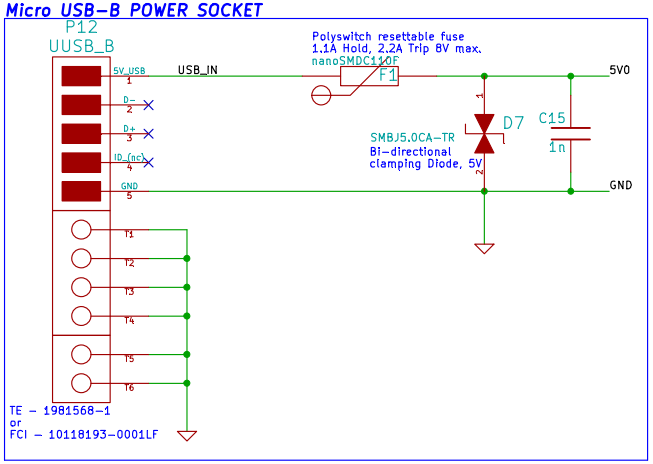

3V3
5V0
AREF
P13
R7
10K
C1
100n
RESET
IC1
ATMEGA328-PU
PC6(/RESET)
AGND
AREF
AVCC
PB6(XTAL1/TOSC1)
PB7(XTAL2/TOSC2)
PC0(ADC0)
PC1(ADC1)
PC2(ADC2)
PC3(ADC3)
PC4(ADC4/SDA)
PC5(ADC5/SCL)
PD0(RXD)
PD1(TXD)
PD2(INT0)
PD3(INT1)
PD4(XCK/T0)
PD5(T1)
PD6(AIN0)
PD7(AIN1)
PB0(ICP)
PB1(OC1A)
PB2(SS/OC1B)
PB3(MOSI/OC2)
PB4(MISO)
PB5(SCK)
VCC
GND
C10
22p
C11
22p
X1
16MHz
SW1
RST
DIP
DIP1
R2
R1
R3
R4
R6
U2A
U2B
U2C
U2D
74HC125
PD2 (1pps)
GPS 1pps signal
PD3 (SQW)
RTC 1Hz signal
SD_DATA_OUT
SD_CARD_MICRO
SD1
SD_CS
SD_DATA_IN
SD_CLK
C14
ARDUINO_SHIELD
SHIELD1
MTG HOLES
PWR_FLAG
ANALOG_5V0
P14
ANALOG_GND
P15
GPS Header
P7
GPS_UP501
R15
8k2
R16
16k
D4 RB886G
D3
5V to 3V level translation for GPS Rx signal. R16 may be replaced with 3V3 Zener Diode.
EXT Mode : Connect EXT Servo supply to 5V_Servo and GND_SERVO Connectors Pins 7/8.
INT Mode : Use Jumper links to shunt Pins 7/8 of PWM_SERVO and 5V_SERVO connectors to run Servos using on board 5V.
SERVO Header
P4
PWM_SERVO
P5
5V_SERVO
P6
GND_SERVO
5V_INT
nanoSMDC110F
F2
C8
47u,10V
D8
MBRM110LT1G
FTDI Header
P8
FTDI
C7
100n
ISP Header
P9
ICSP
Sheet: RPi
File: RPi.sch
Sheet: aLaMode_pwr
File: aLaMode_pwr.sch
Sheet: aLaMode_rtc
File: aLaMode_rtc.sch
WyoLum :: http://wyolum.com/projects/alamode/
File:
Sheet: /
Title: aLaMode_v3
Size: A4
Date: 14 jun 2013
Rev: 3
KiCad E.D.A. eeschema (2013-03-15 BZR 4003)-stable
Id: 1/4

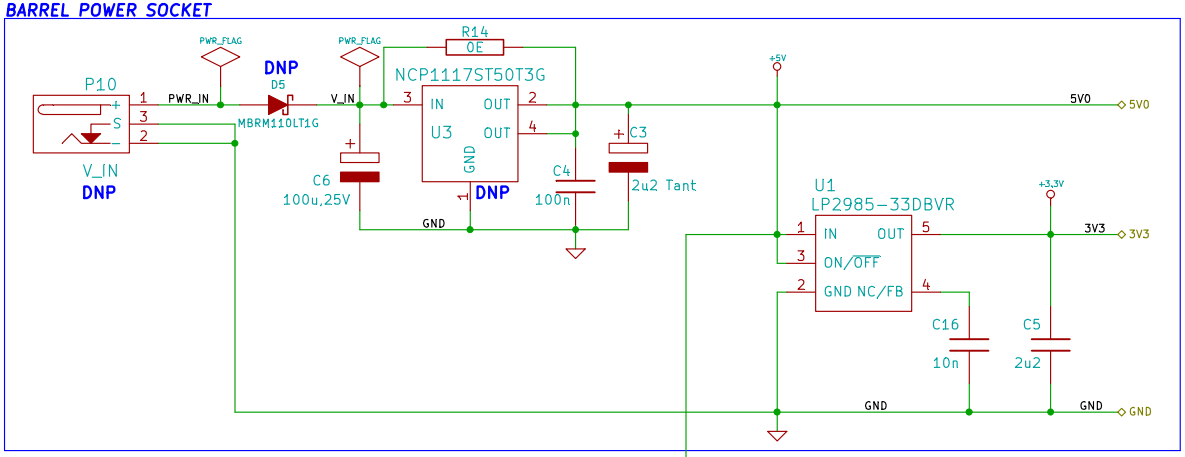
Micro USB-B POWER SOCKET



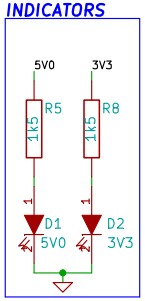
If using Micro USB -B socket,
DO NOT INSTALL :
P10, D5, U3
AND INSTALL
Resistor R14 across pins 2 and 3 of U3

If using Barrel Socket,
DO NOT INSTALL :
P12, F1, D7, C15, R14

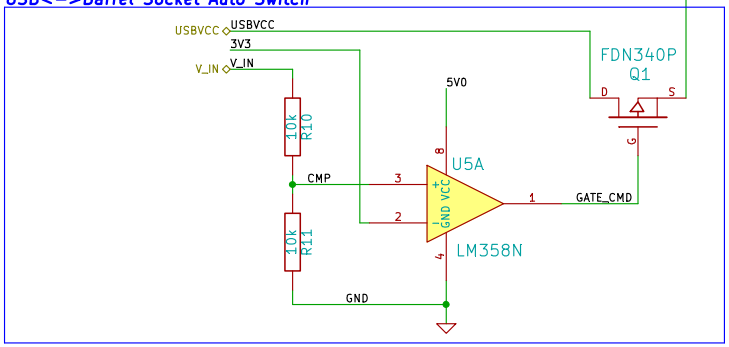
BARREL POWER SOCKET



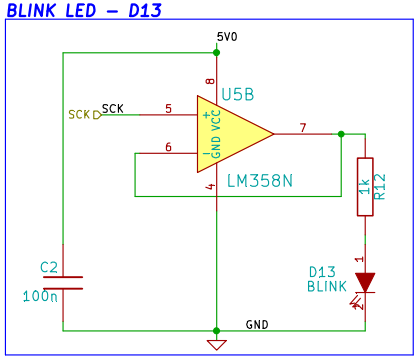
INDICATORS

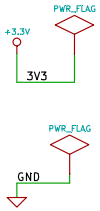


USB<->Barrel Socket Auto Switch



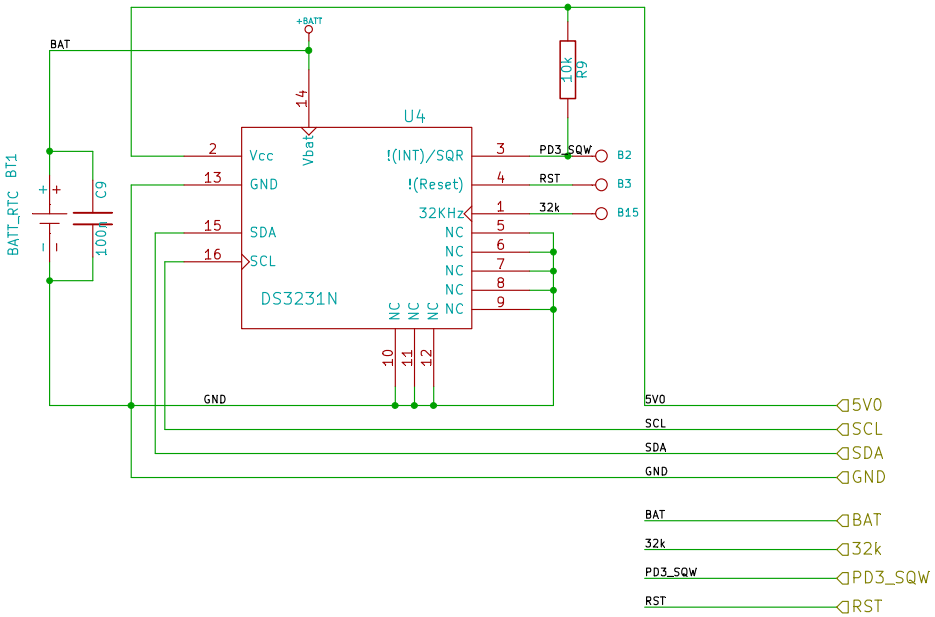
BLINK LED - D13



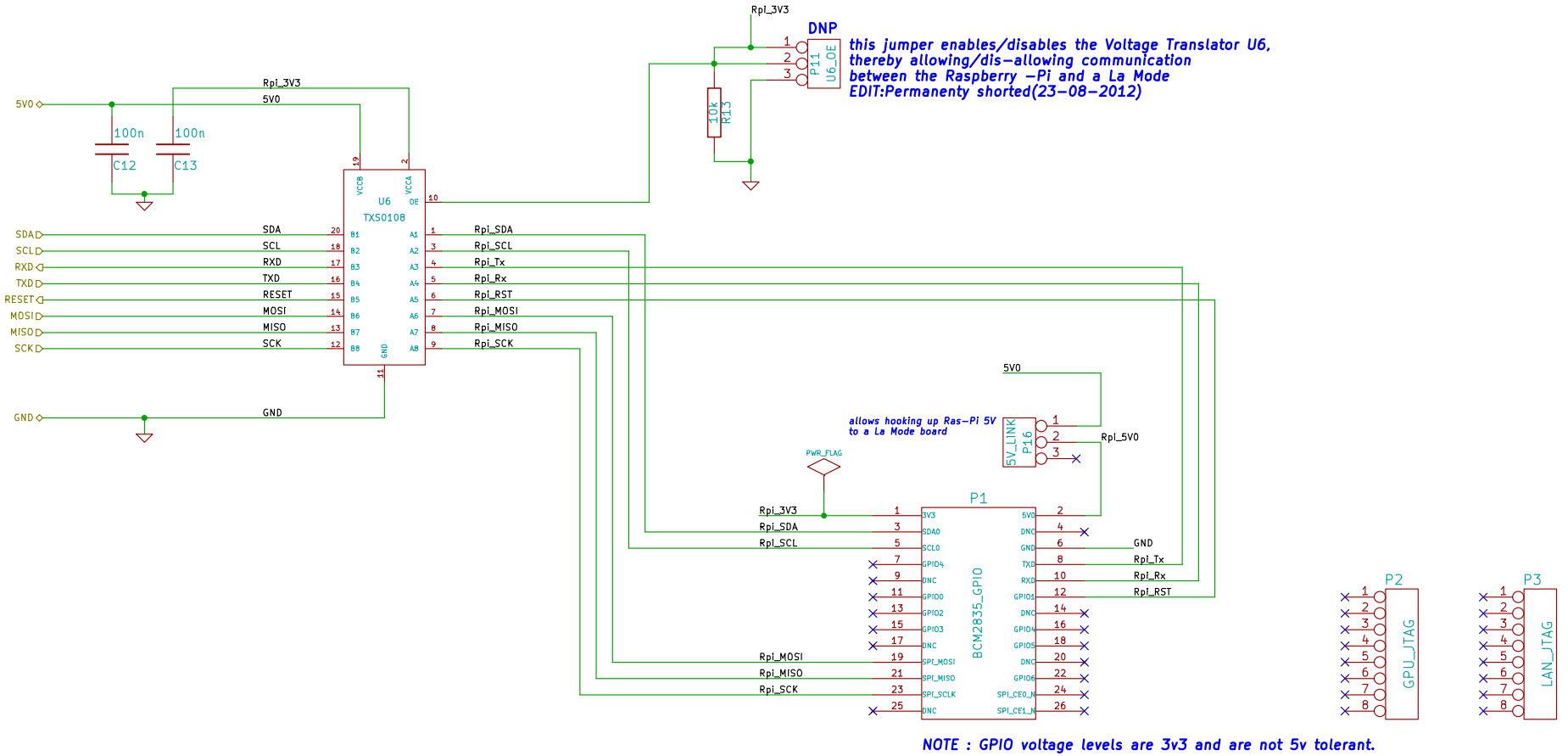


Logo_Wyolum
G1
Logo_Wyolum
G2
Logo_OH
G3
Logo_OH
G4
PCB
PCB1

WyoLum :: http://wyolum.com/projects/alamode/		
File:		
Sheet: /aLaMode_pwr/		
Title: aLaMode_v3		
Size: A4	Date: 14 jun 2013	Rev: 3
KiCad E.D.A. eeschema (2013-03-15 BZR 4003)-stable		Id: 2/4



WyoLum :: http://wyolum.com/projects/alamode/		
File:		
Sheet: /aLaMode_rtc/		
Title: aLaMode_v3		
Size: A4	Date: 14 jun 2013	**Rev: 3**
KiCad E.D.A. eeschema (2013-03-15 BZR 4003)-stable		Id: 3/4



WyoLum :: http://wyolum.com/projects/alamode/		
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Sheet: /RPi/		
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Size: A4	Date: 14 jun 2013	Rev: 3
KiCad E.D.A. eeschema (2013-03-15 BZR 4003)-stable		Id: 4/4