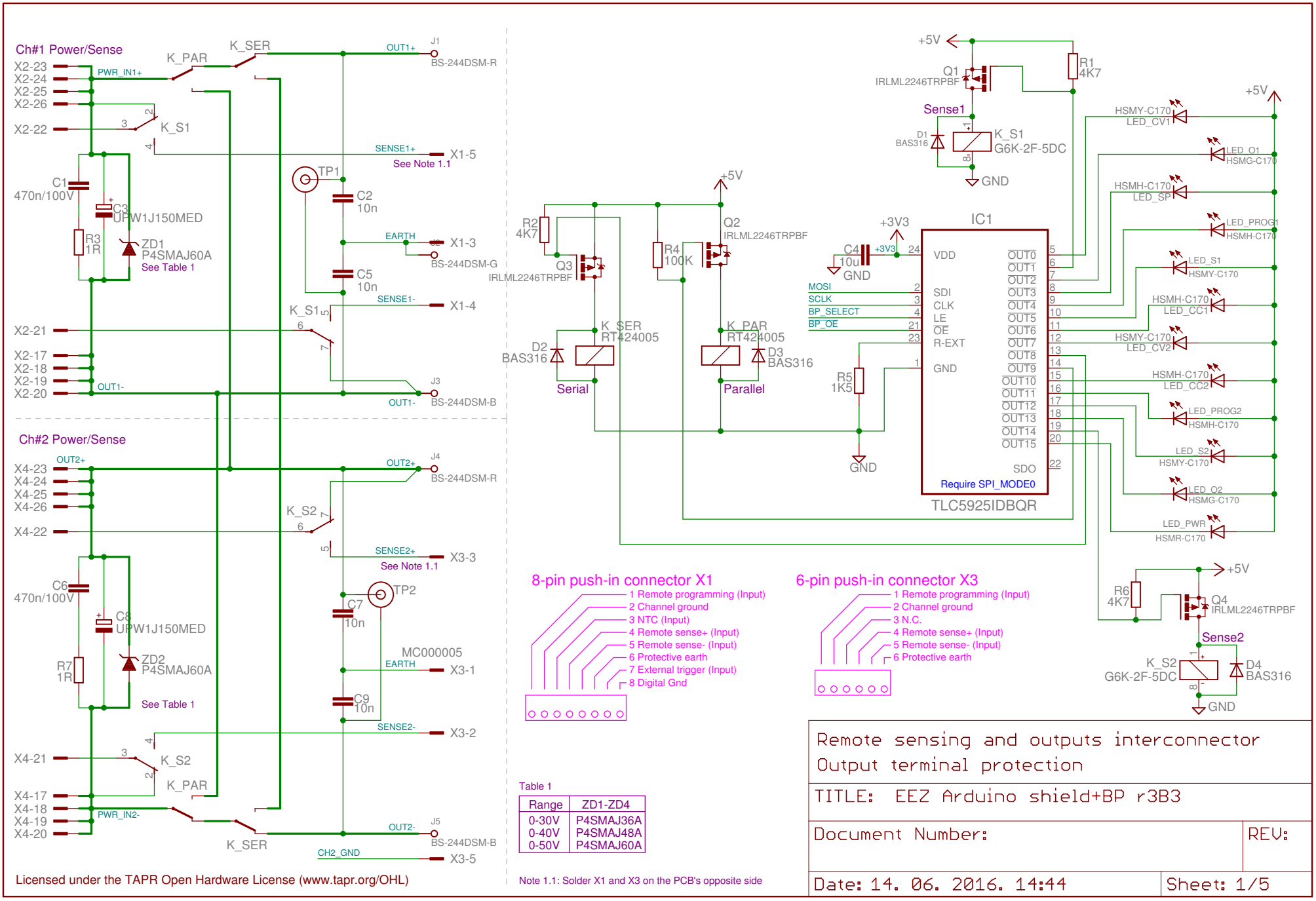
Ch#1 Power/Sense
X2-23
X2-24
X2-25
X2-26
X2-22
PWR_IN1+
K_PAR
K_SER
OUT1+
J1
BS-244DSM-R
K_S1
SENSE1+
See Note 1.1
X1-5
TP1
C1
470n/100V
C3
UPW1J150MED
C2
10n
EARTH
X1-3
BS-244DSM-G
R3
1R
ZD1
P4SMAJ60A
See Table 1
C5
10n
SENSE1-
X1-4
K_S1
X2-21
X2-17
X2-18
X2-19
X2-20
OUT1-
J3
BS-244DSM-B
Ch#2 Power/Sense
X4-23
X4-24
X4-25
X4-26
X4-22
OUT2+
J4
BS-244DSM-R
K_S2
SENSE2+
See Note 1.1
X3-3
C6
470n/100V
C8
UPW1J150MED
TP2
C7
10n
MC000005
EARTH
X3-1
R7
1R
ZD2
P4SMAJ60A
See Table 1
C9
10n
SENSE2-
X3-2
X4-21
K_S2
K_PAR
X4-17
X4-18
X4-19
X4-20
PWR_IN2-
OUT2-
J5
BS-244DSM-B
K_SER
CH2_GND
X3-5
+5V
R2
4K7
Q3
IRLML2246TRPBF
K_SER
RT424005
D2
BAS316
Serial
R4
100K
Q2
IRLML2246TRPBF
K_PAR
RT424005
D3
BAS316
Parallel
GND
+5V
Q1
IRLML2246TRPBF
R1
4K7
Sense1
D1
BAS316
K_S1
G6K-2F-5DC
GND
+3V3
C4
10u
GND
IC1
VDD
SDI
CLK
LE
OE
R-EXT
GND
MOSI
SCLK
BP_SELECT
BP_OE
R5
1K5
OUT0
OUT1
OUT2
OUT3
OUT4
OUT5
OUT6
OUT7
OUT8
OUT9
OUT10
OUT11
OUT12
OUT13
OUT14
OUT15
SDO
Require SPI_MODE0
TLC5925IDBQR
+5V
HSMY-C170
LED_CV1
LED_O1
HSMG-C170
HSMH-C170
LED_SP
LED_PROG1
HSMH-C170
LED_S1
HSMY-C170
HSMH-C170
LED_CC1
HSMY-C170
LED_CV2
HSMH-C170
LED_CC2
LED_PROG2
HSMH-C170
LED_S2
HSMY-C170
LED_O2
HSMG-C170
LED_PWR
HSMR-C170
8-pin push-in connector X1
1 Remote programming (Input)
2 Channel ground
3 NTC (Input)
4 Remote sense+ (Input)
5 Remote sense- (Input)
6 Protective earth
7 External trigger (Input)
8 Digital Gnd
6-pin push-in connector X3
1 Remote programming (Input)
2 Channel ground
3 N.C.
4 Remote sense+ (Input)
5 Remote sense- (Input)
6 Protective earth
+5V
R6
4K7
Q4
IRLML2246TRPBF
Sense2
K_S2
G6K-2F-5DC
D4
BAS316
GND
Table 1
Range
ZD1-ZD4
0-30V
P4SMAJ36A
0-40V
P4SMAJ48A
0-50V
P4SMAJ60A
Note 1.1: Solder X1 and X3 on the PCB's opposite side
Remote sensing and outputs interconnector
Output terminal protection
TITLE: EEZ Arduino shield+BP r3B3
Document Number:
REV:
Date: 14. 06. 2016. 14:44
Sheet: 1/5
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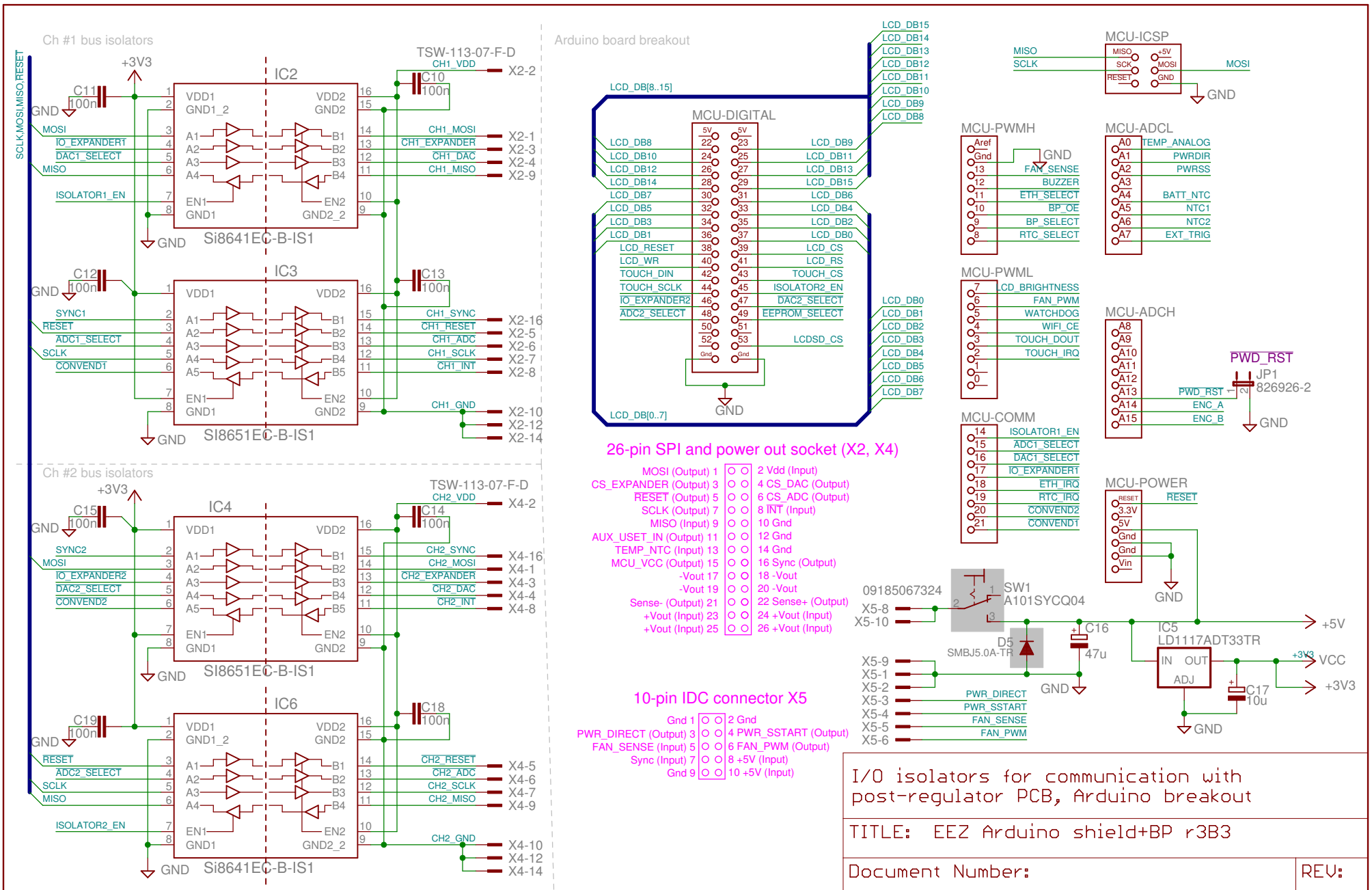

I/O isolators for communication with post-regulator PCB, Arduino breakout

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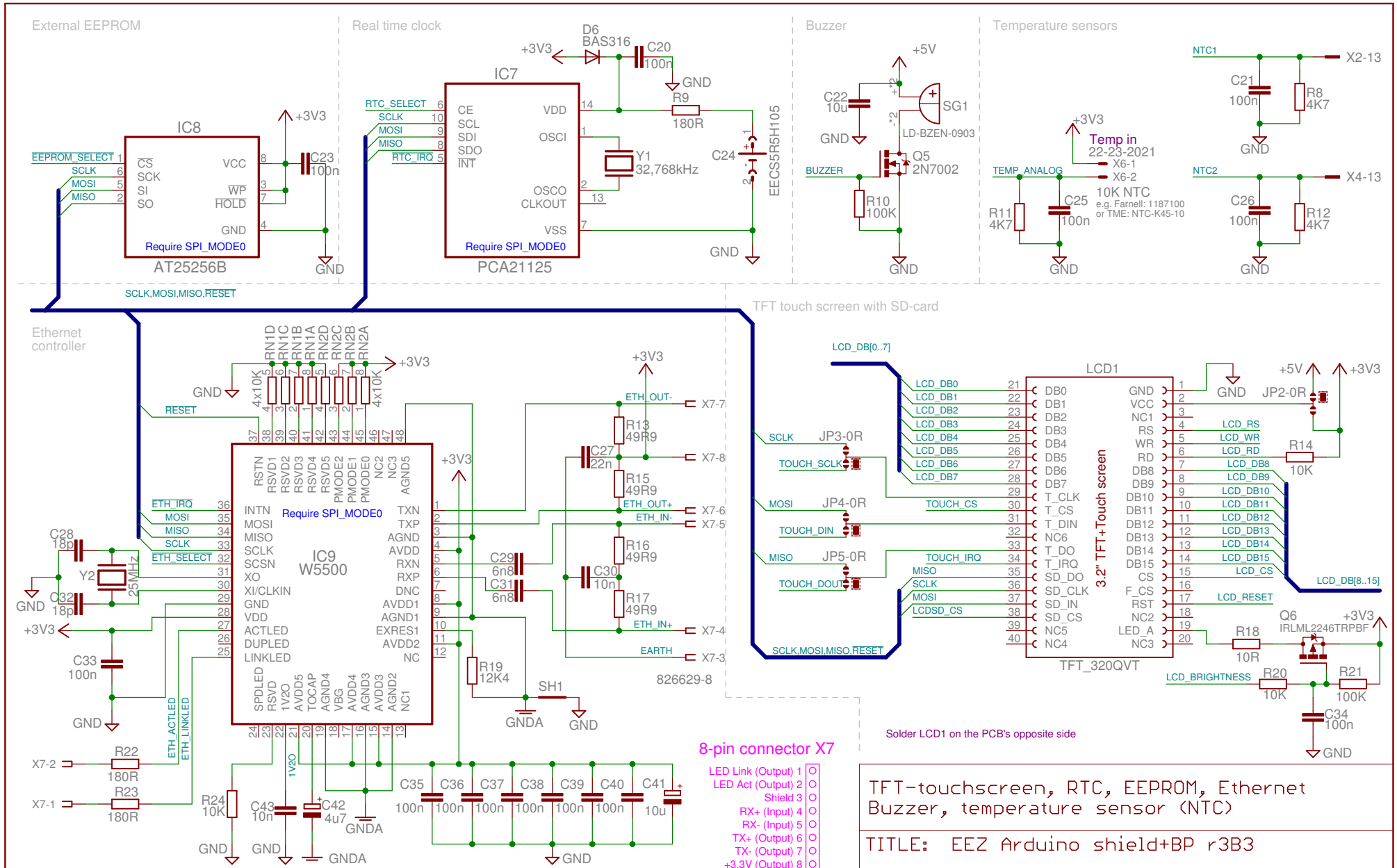

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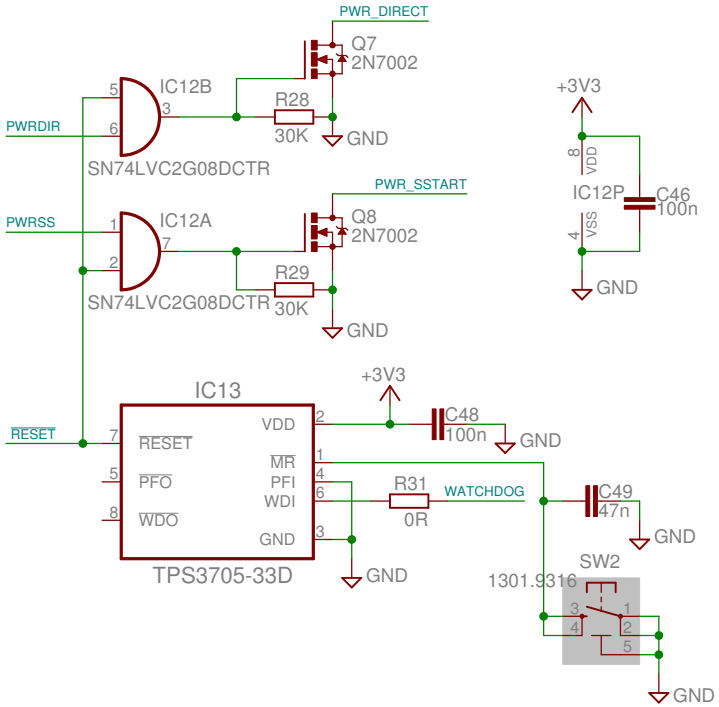
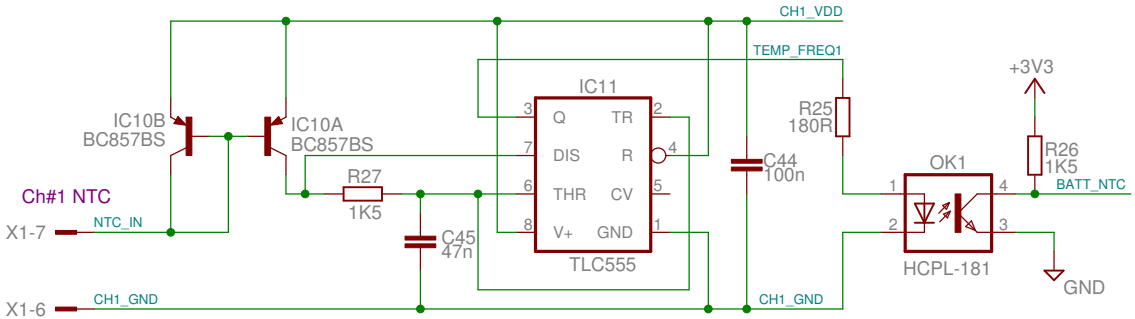
Repository: https://github.com/eez-open

Remote programming inputs

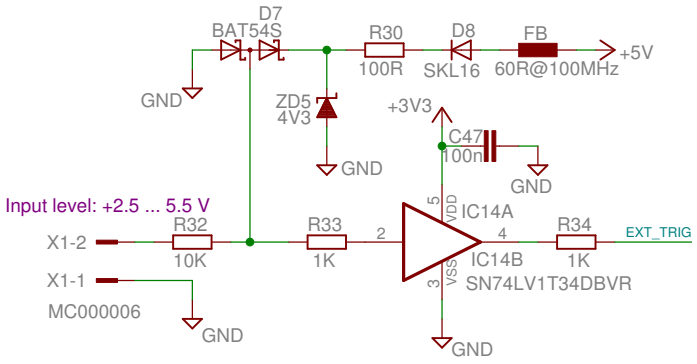
Power-on reset generator and power control



Channel 1 V/F converter for battery NTC (optional)



External trigger protection and level shifter/buffer



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Repository: https://github.com/eez-open

LED CC/CV indicators, Reset control,
Optional Ethernet module connector, External trigger,
V/F converter for battery NTC (optional), Encoder (optional)

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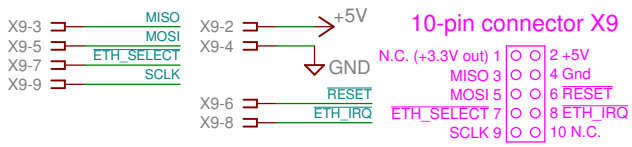
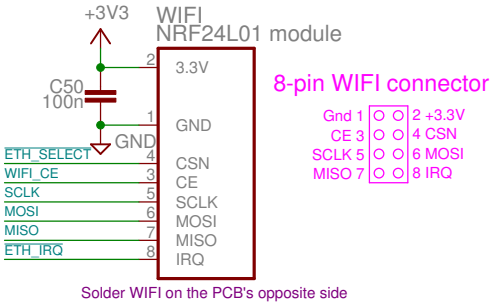
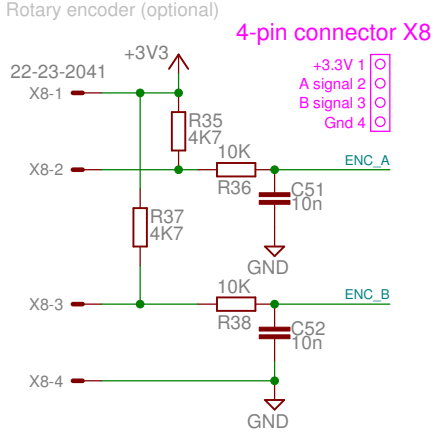
Optional Ethernet module connector



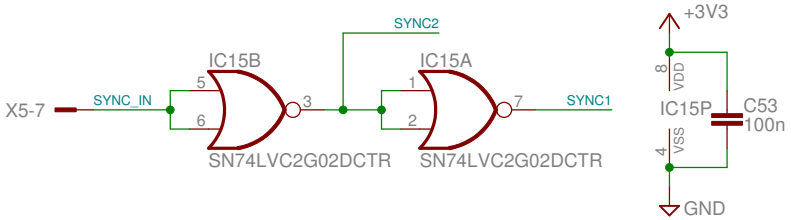
Optional Wifi module connector



Rotary encoder (optional)



Master sync signal phase shifting



Optional ethernet, Wifi and encoder Power boards SMPS sync	
TITLE: EEZ Arduino shield+BP r3B3	
Document Number:	REV:
Date: 14. 06. 2016. 14:44	Sheet: 5/5