

Bias power supply with SMPS pre-regulator

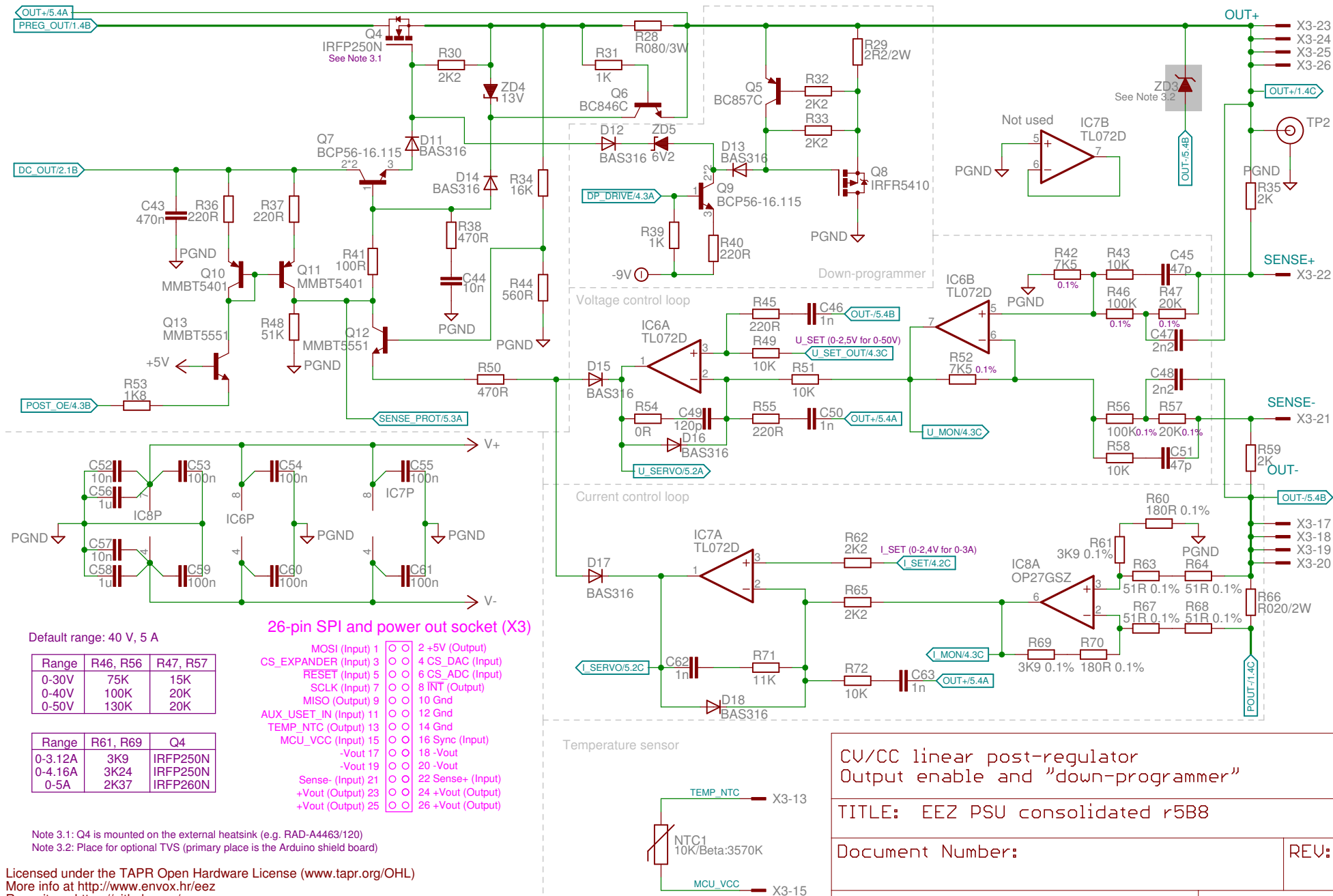
TITLE: EEZ PSU consolidated r5B8

Document Number:

REV:

Date: 23. 06. 2016. 16:27

Sheet: 2/12



Digital control (SPI)

SSW-113-02-T-D-RA

X3-9 PS_MISO

X3-5 PS_RESET

X3-1 PS_MOSI

X3-7 PS_SCLK

X3-3 CS_EXPANDER

+5V

X3-2

X3-10

X3-12

X3-14

PGND

X3-8

INT

JMP2-0R

X3-4

CS_DAC

PGND

X3-6

CS_ADC

PGND

PGND

PGND

PGND

PGND

PGND

PGND

PGND

PGND

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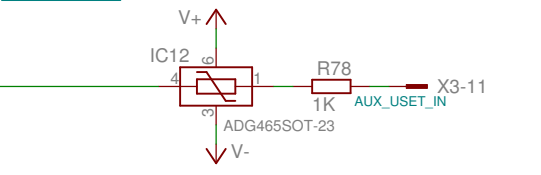
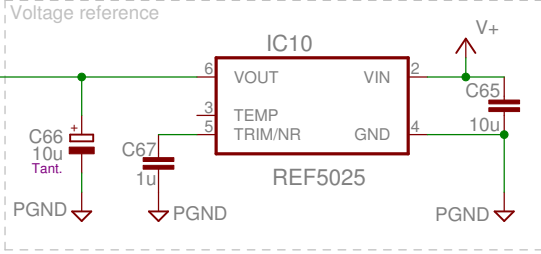
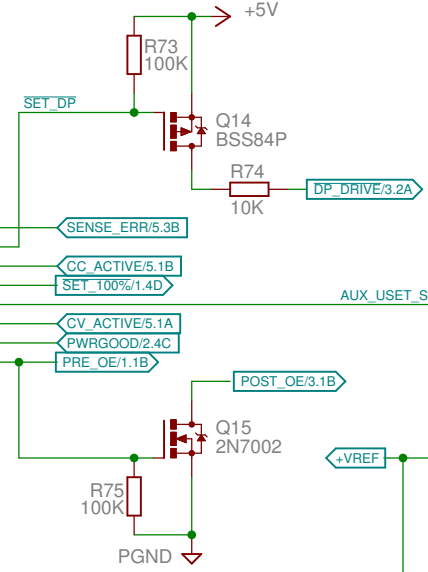
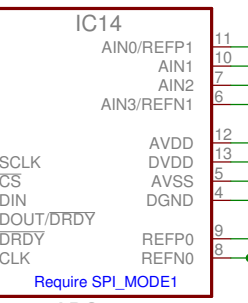
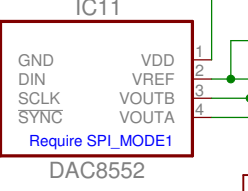
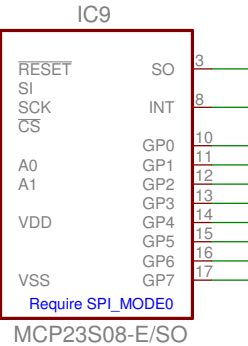
PGND

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I/O Expander		
Bit	Function	Direction
0	Sense error	Output
1	Down programmer disable	Output
2	CC	Input
3	Set 100% duty cycle	Output
4	Remote programming	Output
5	CV	Input
6	Power good	Input
7	Output enable	Output

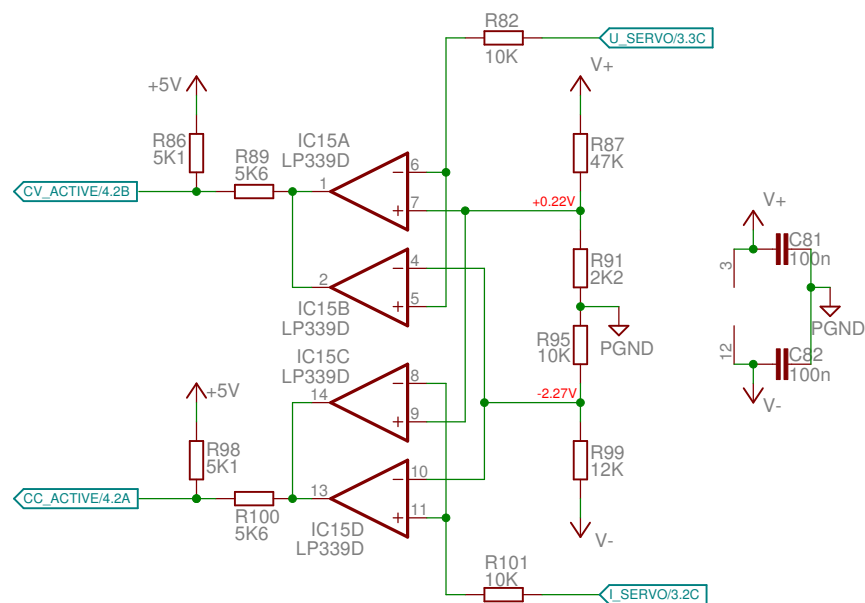
SPI I/O expander, DAC, ADC, Voltage reference
Remote programming

TITLE: EEZ PSU consolidated r5B8

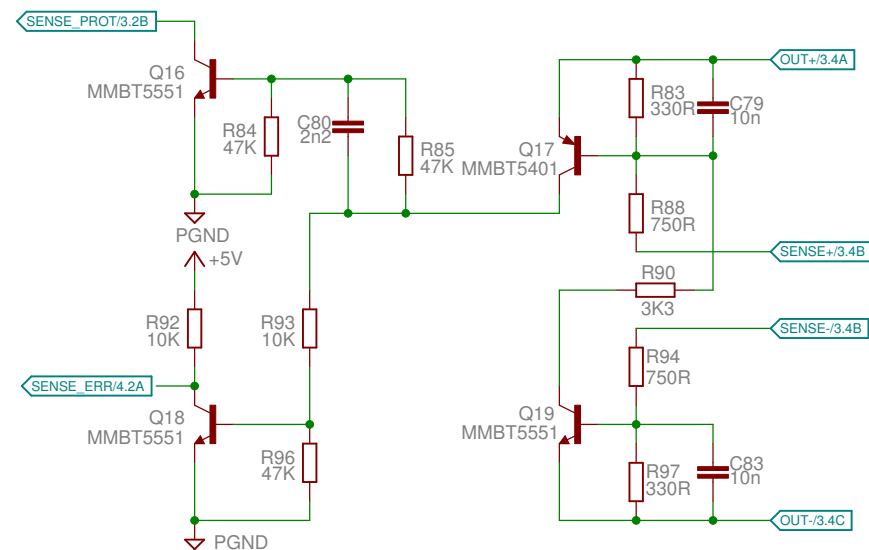
Document Number: REV:

Date: 23. 06. 2016. 16:27 Sheet: 4/12

Constant Voltage (CV) and Constant Current (CC) mode indicator



Remote sense reverse polarity detection



CC/CV indicators, Sense error detection

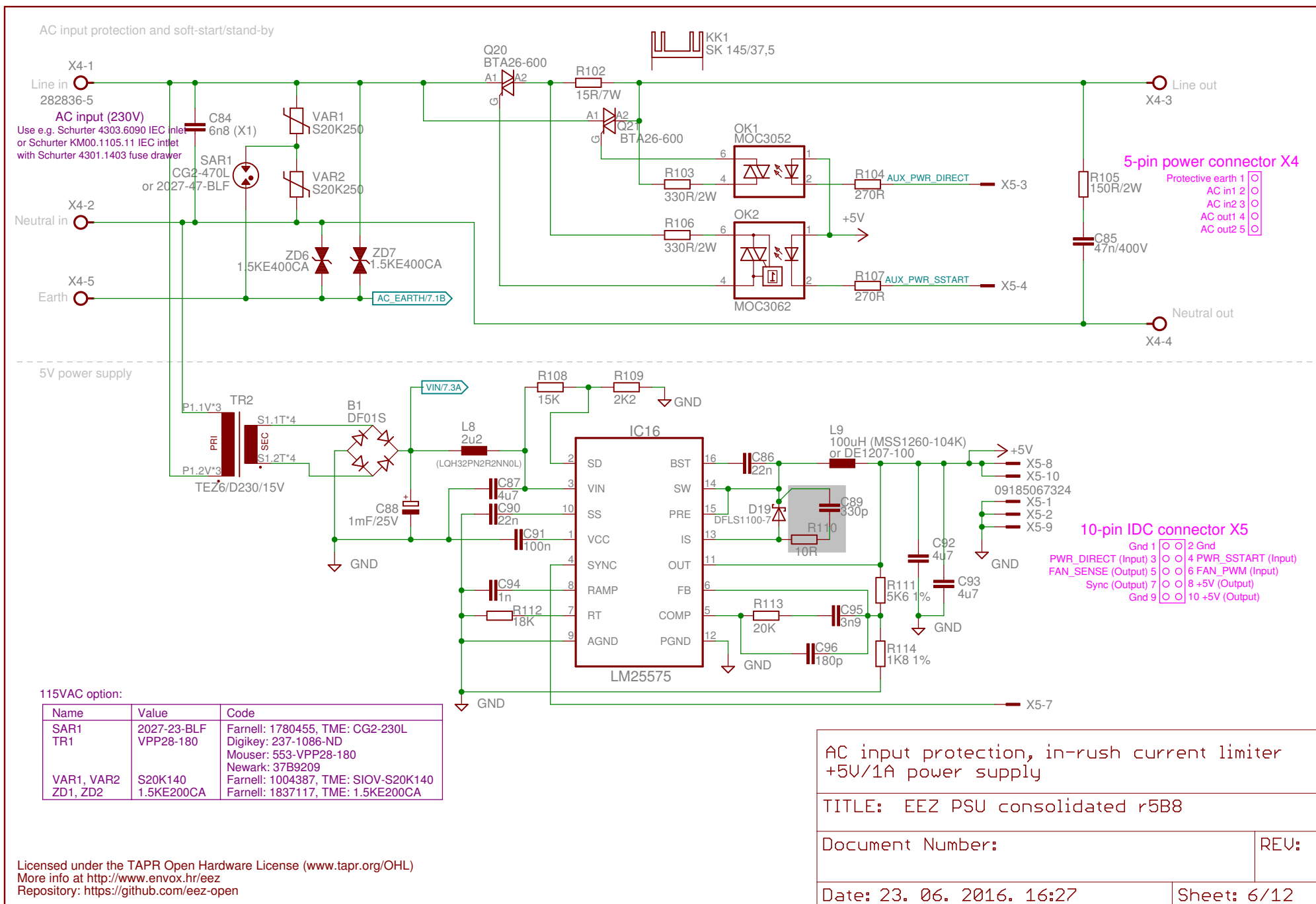
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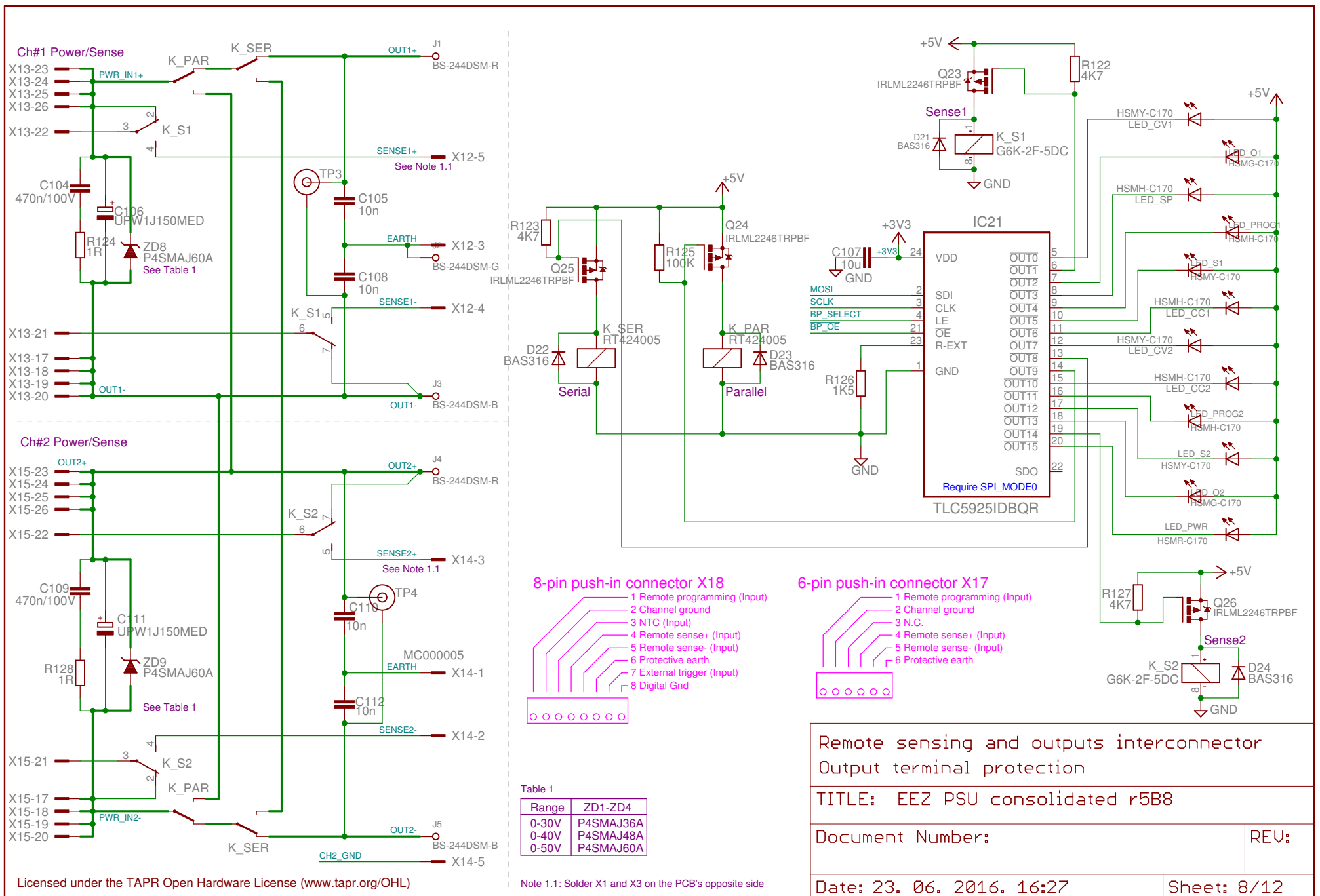
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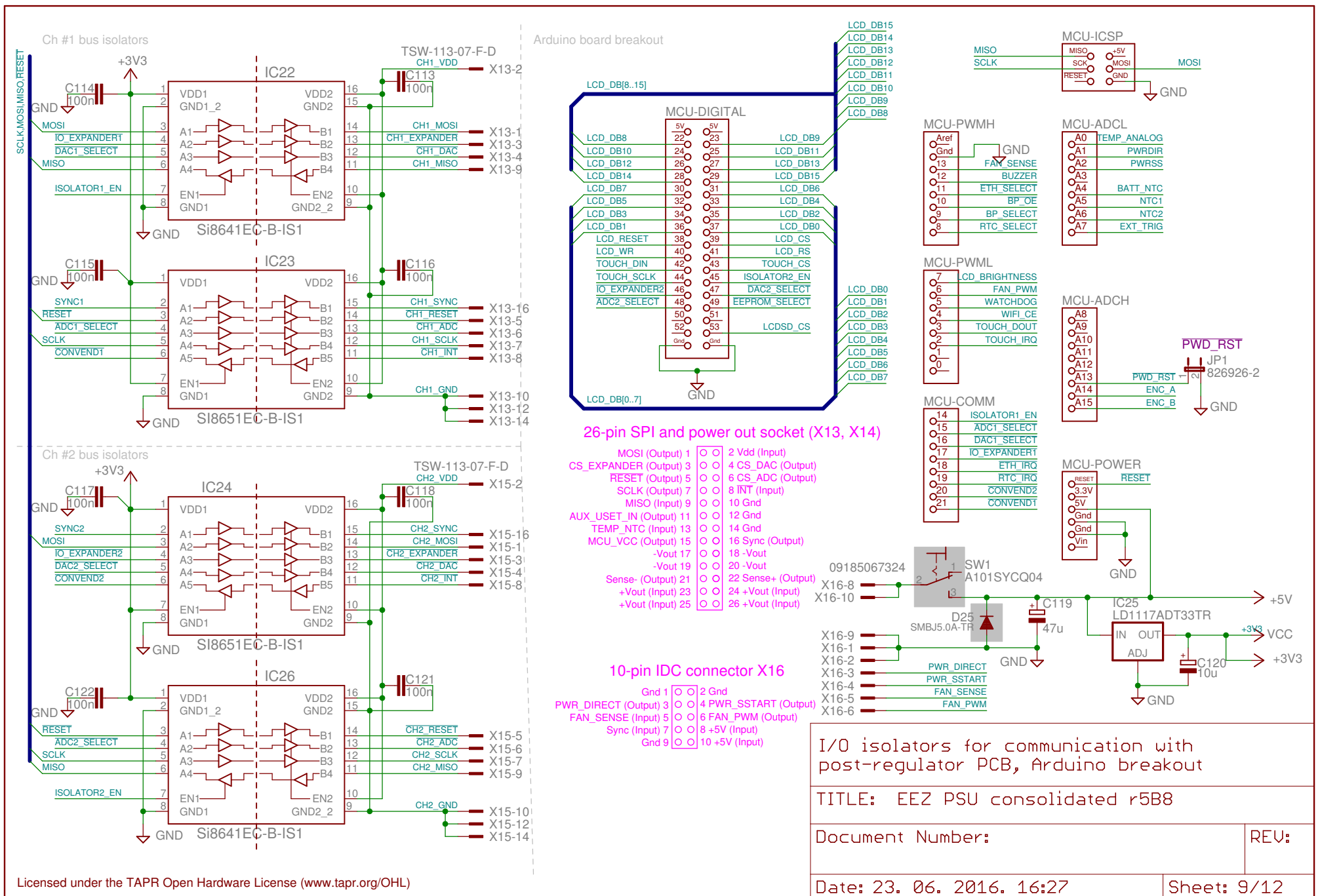
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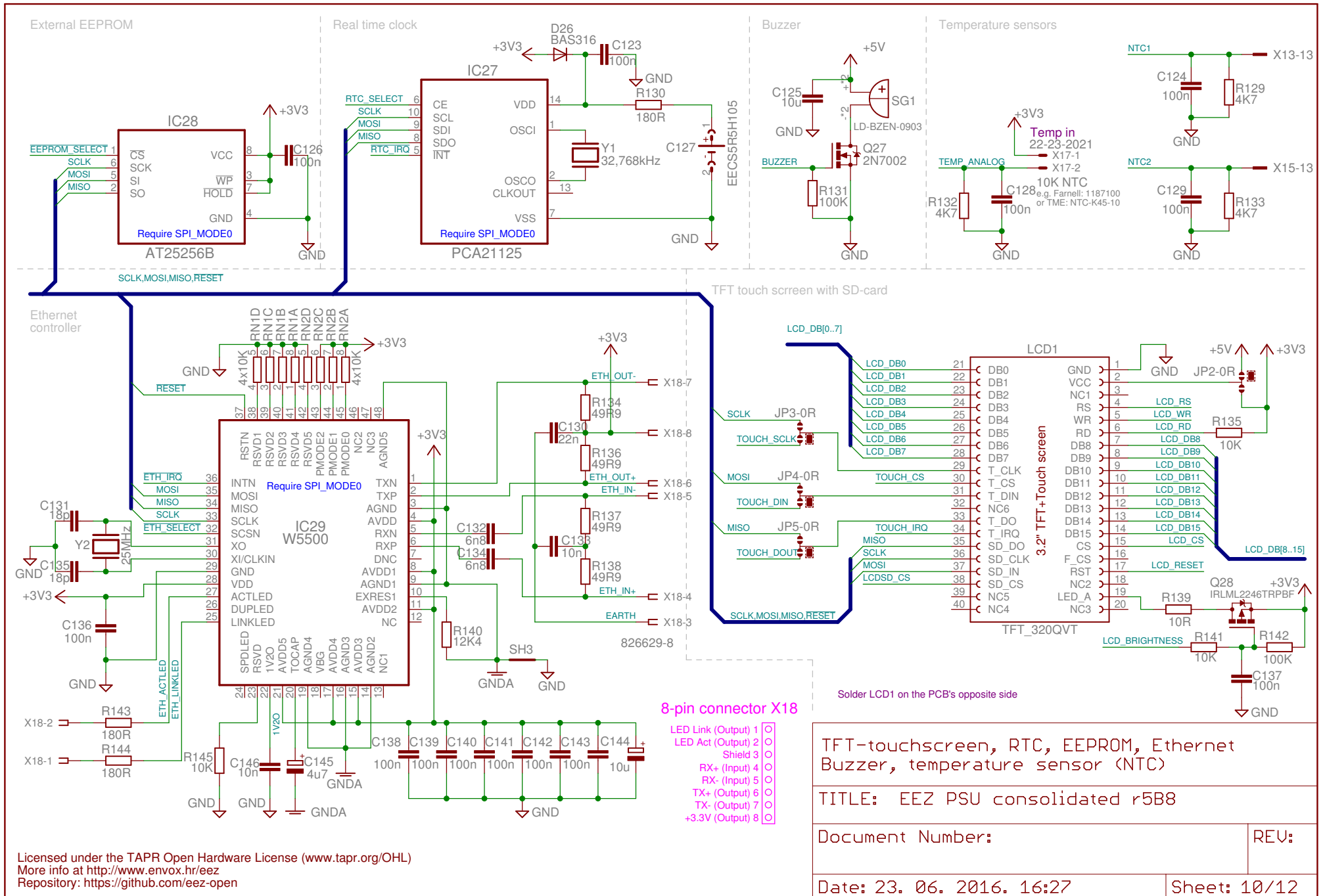
Date: 23. 06. 2016. 16:27

Sheet: 5/12

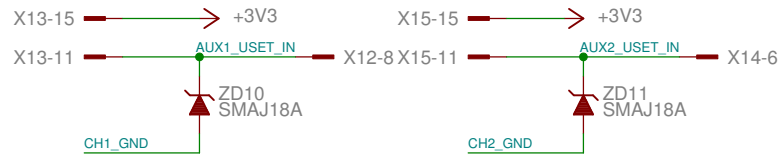




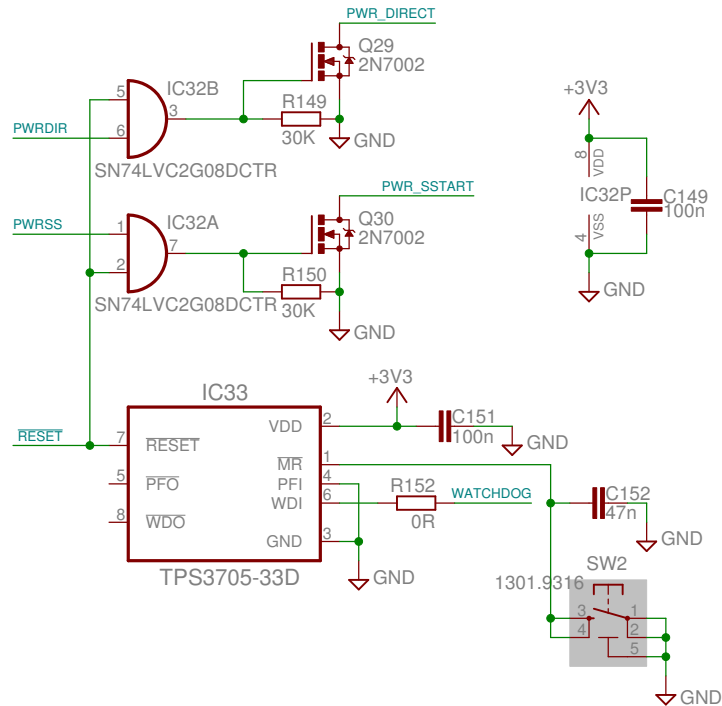




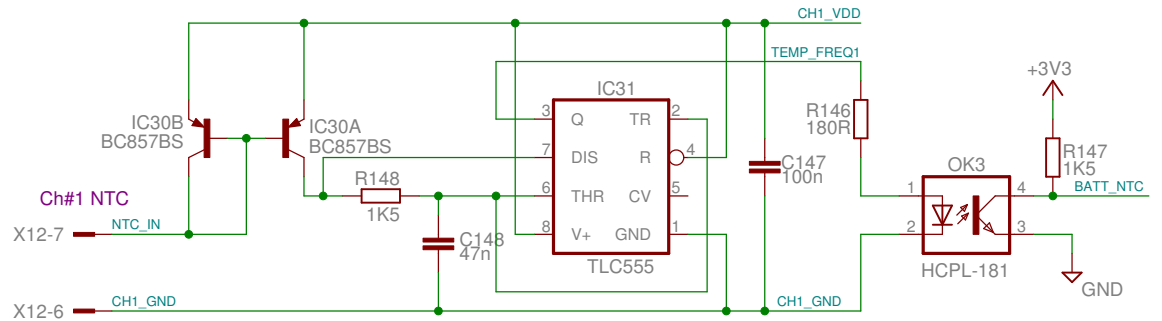
Remote programming inputs



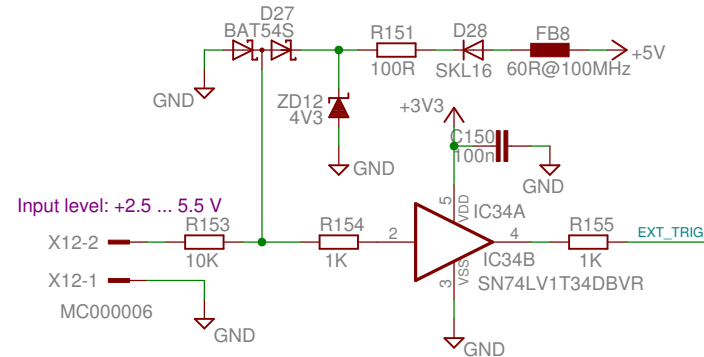
Power-on reset generator and power control



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



External trigger protection and level shifter/buffer



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

TITLE: EEZ PSU consolidated r5B8

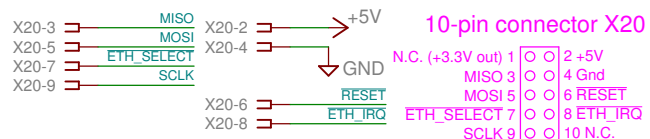
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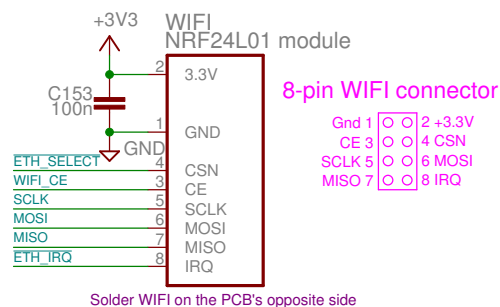
Date: 23. 06. 2016. 16:27

Sheet: 11/12

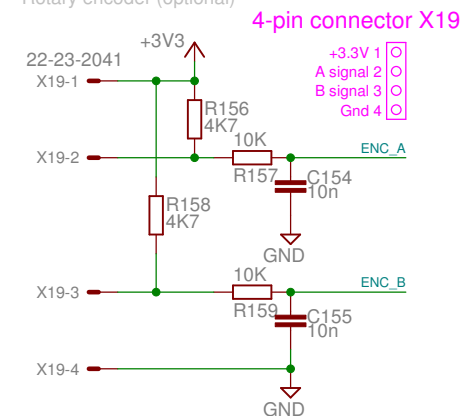
Optional Ethernet module connector



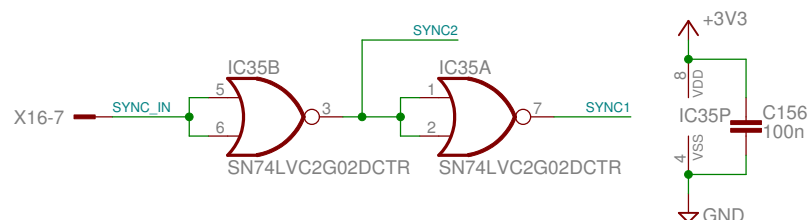
Optional Wifi module connector



Rotary encoder (optional)



Master sync signal phase shifting



Optional ethernet, Wifi and encoder
Power boards SMPS sync

TITLE: EEZ PSU consolidated r5B8

Document Number:

REV:

Date: 23. 06. 2016. 16:27

Sheet: 12/12