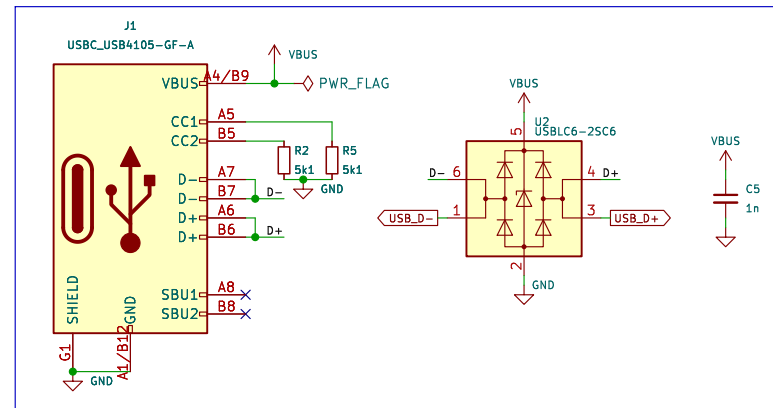
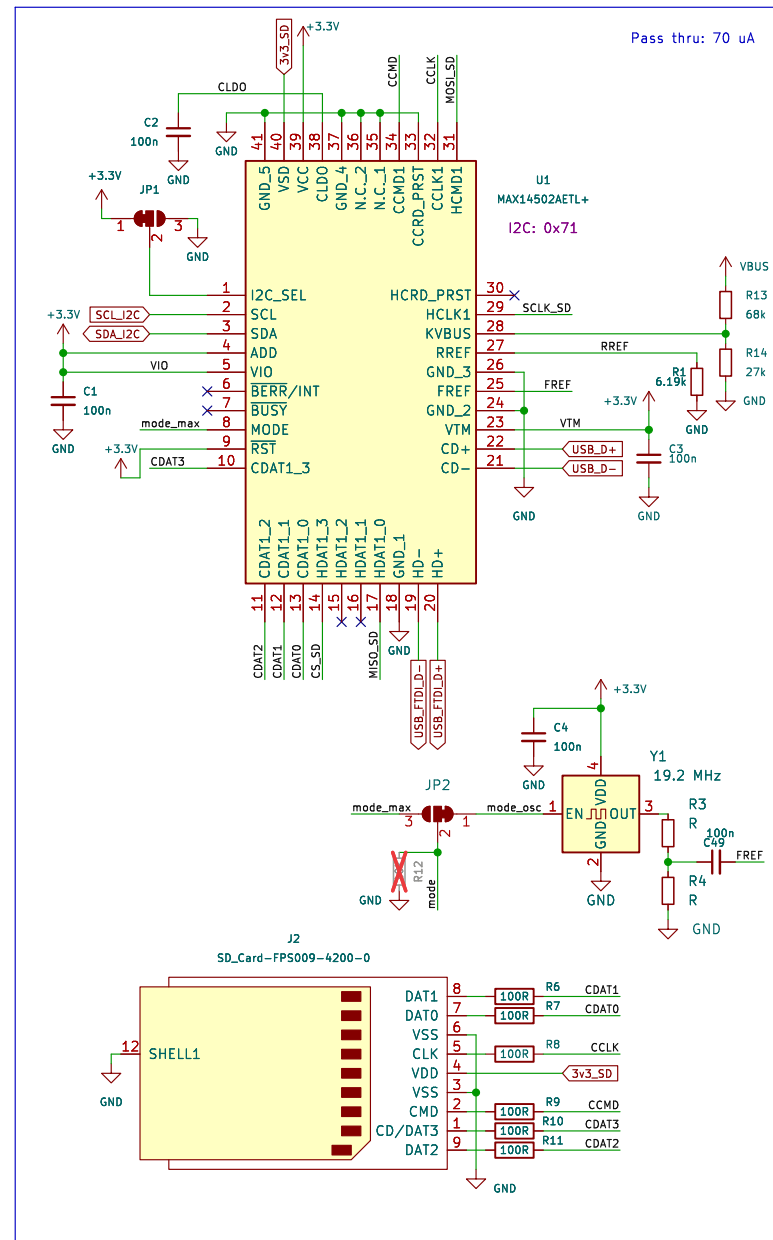


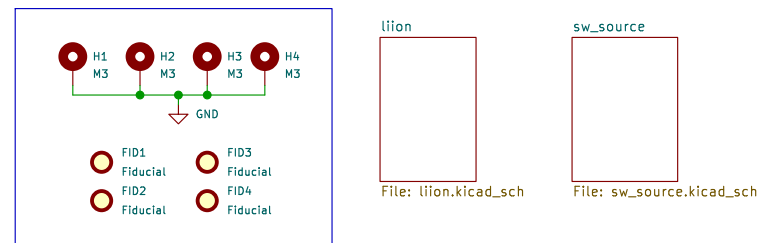
### USB-C connector and ESD protection



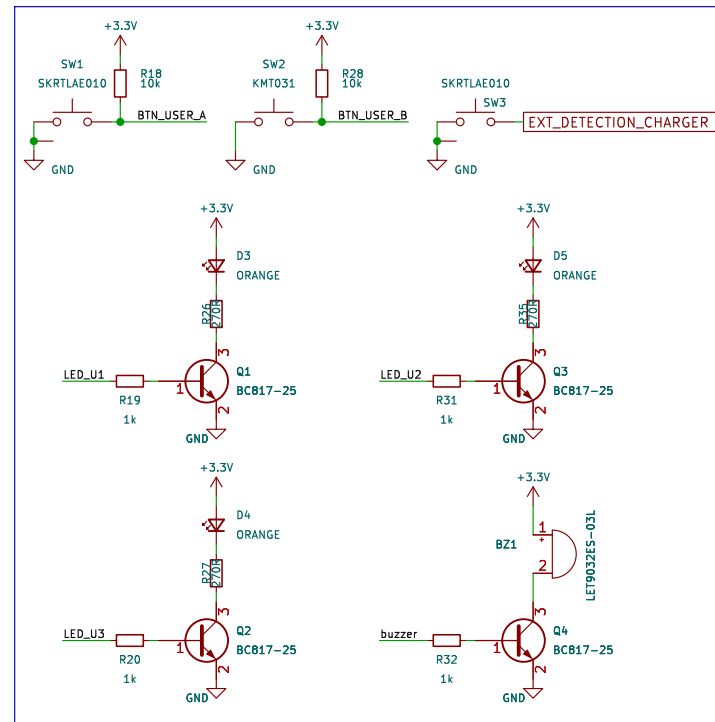
## SD card interface (USB to SDcard reader and USB-bridge to FTDI)



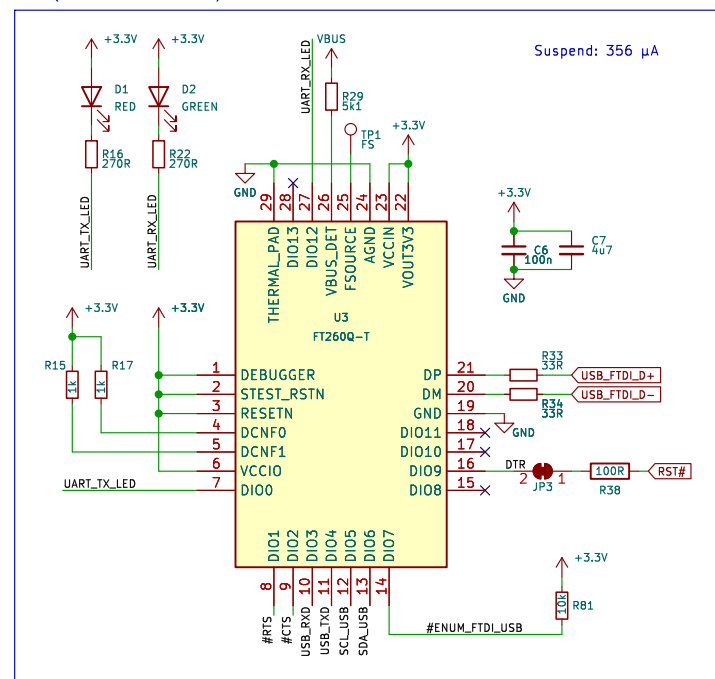
## Mechanical



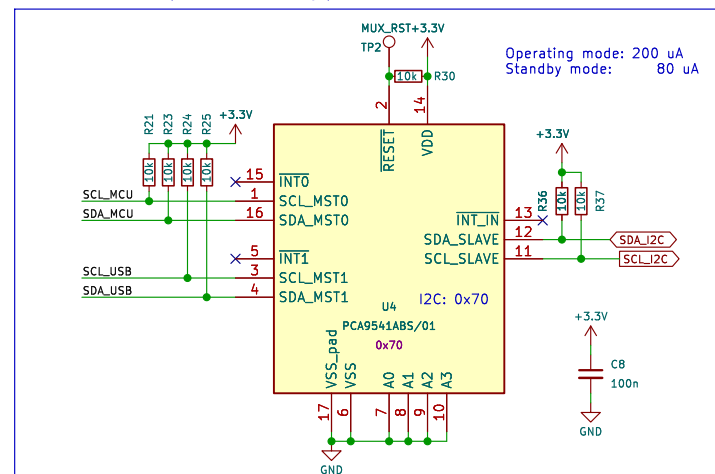
User interface (LED indicators, Buttons)



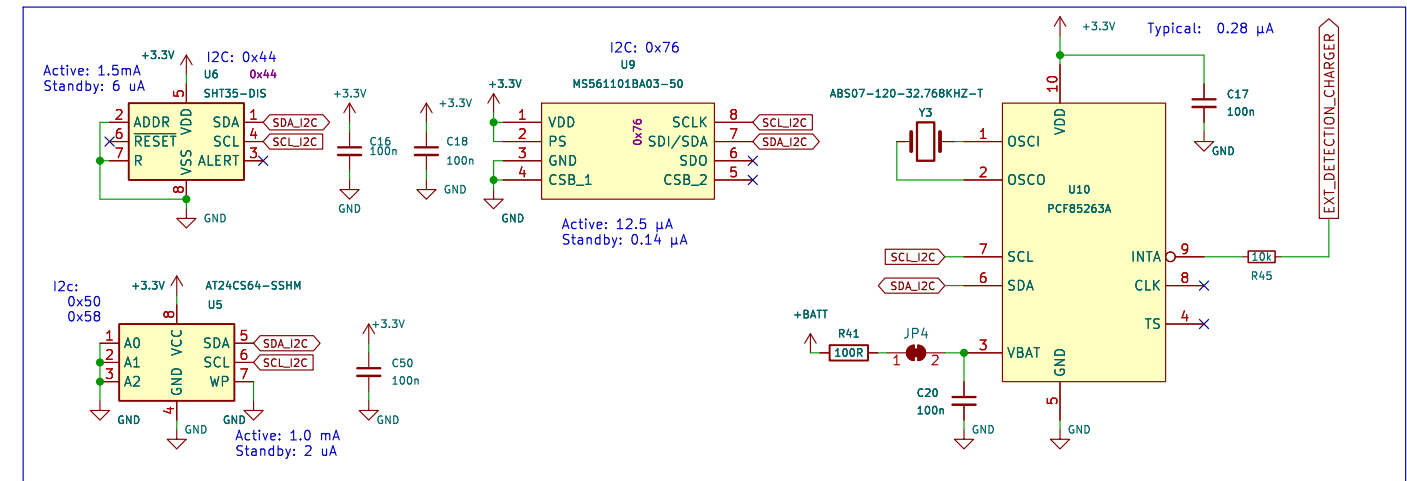
FTDI (USB to UART and I2C)



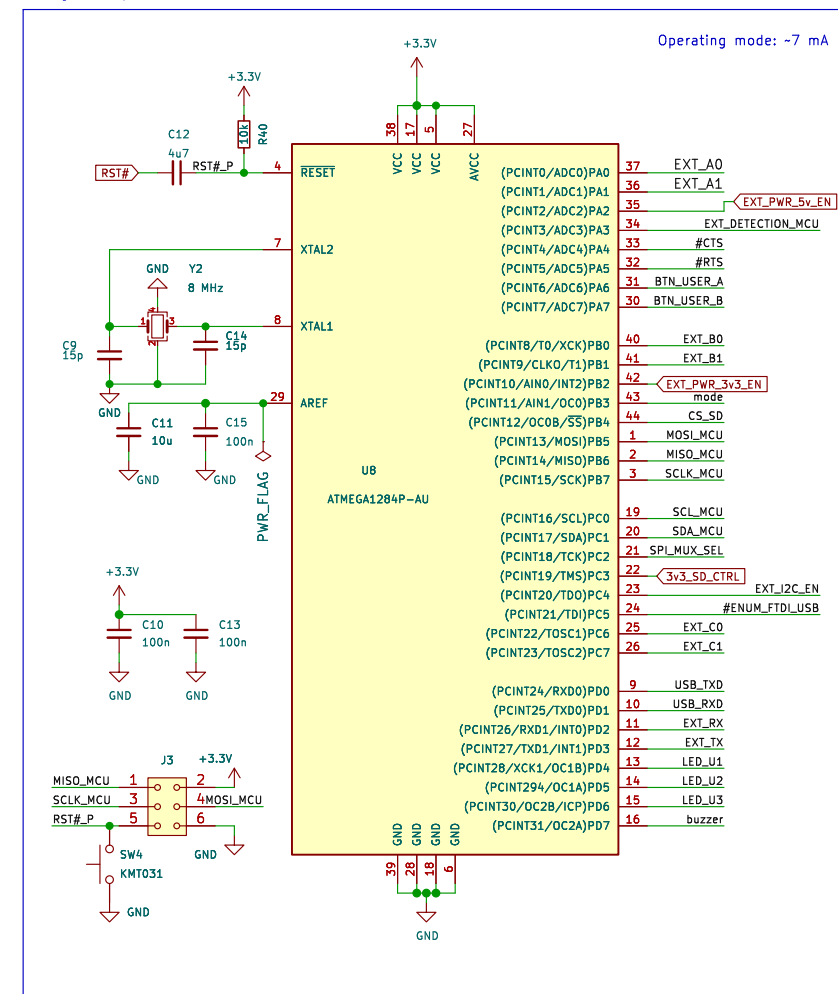
I2C master selector (from FTDI or ATmega)



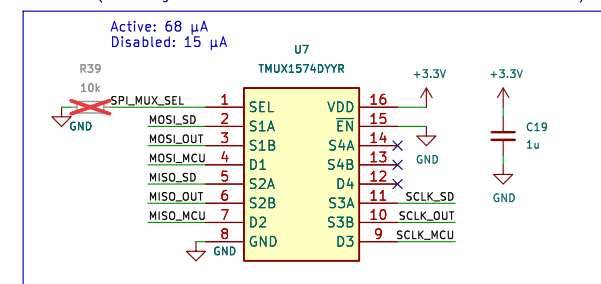
I2C sensors and accessories (hygrometer, altimeter, eeprom, RTC)



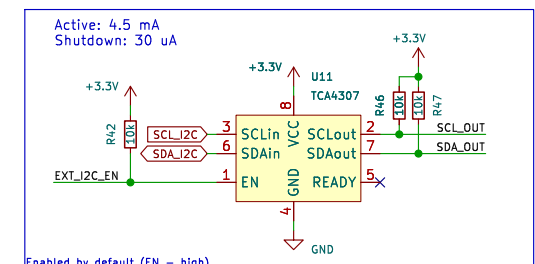
ATmega 1284p microcontroller



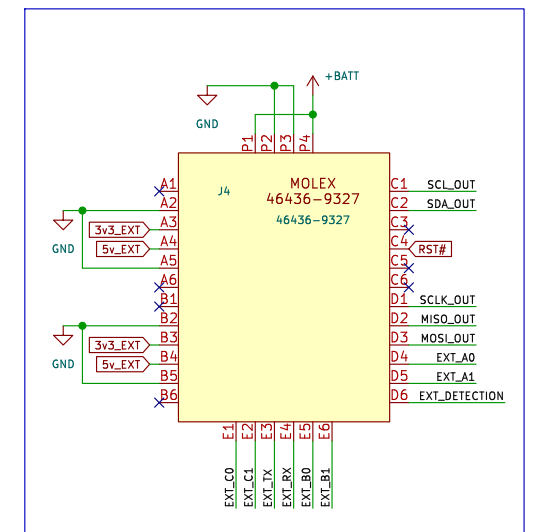
SPI-MUX (switching SPI from MCU to SDcard or to detector ext. connector)



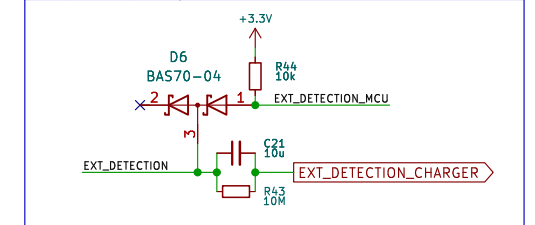
I2C buffer, allows to unconnect external I2C



Connector for detector board



### Auto-power up wiring



**Title: BATDATUNT101**

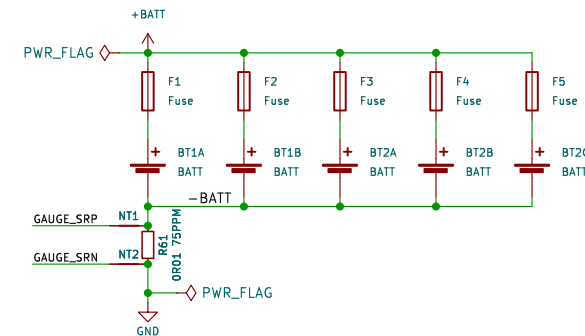
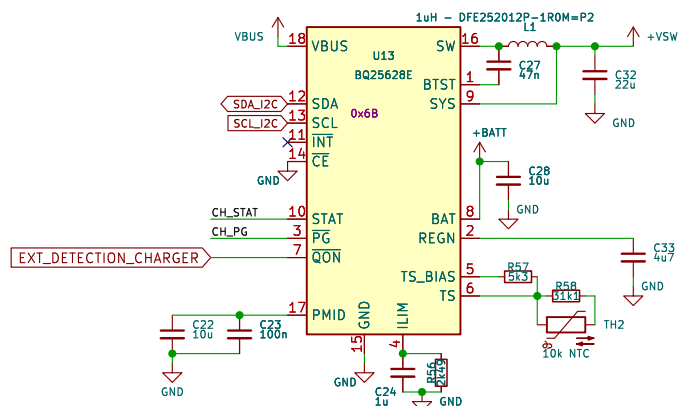
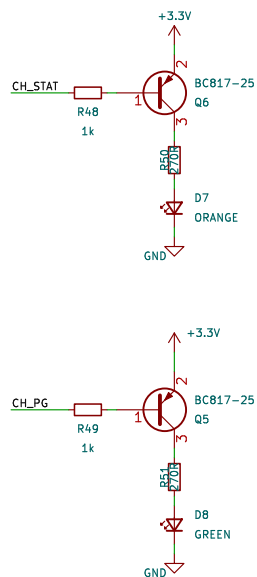
Universal battery and data storage unit.

Author: MLAB.cz, roman-dvorak

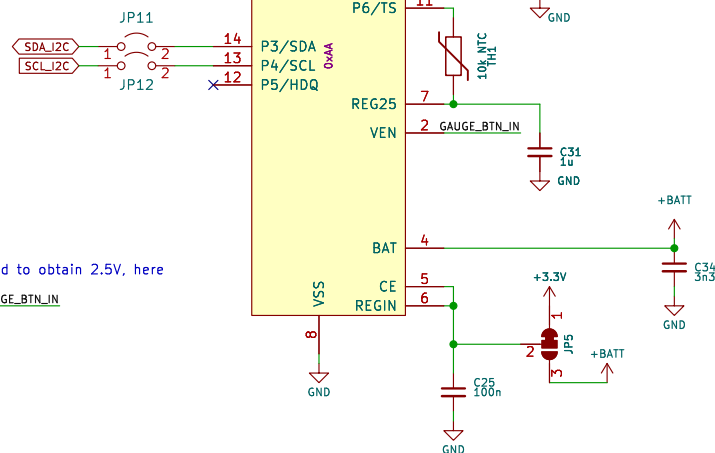
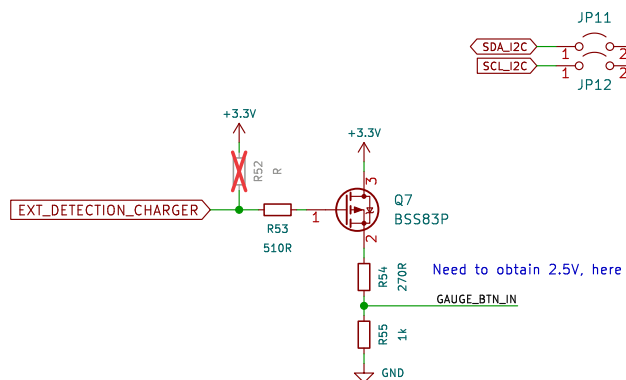
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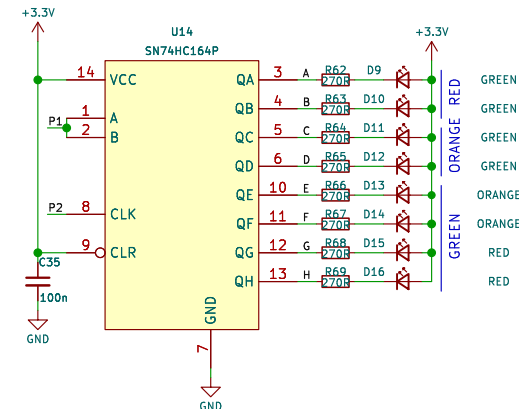
## BATTERY CHARGER



## FUEL GAUGE



## Battery Status Indicator



Doodhadnout optimální hodnoty odporů k LEDkám

Title: BATDATUNTIO1

Universal battery and data storage unit.

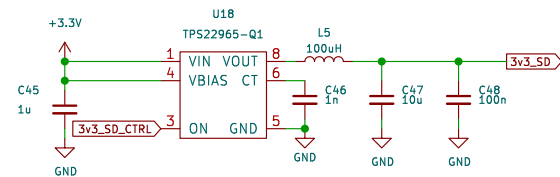
Author: MLAB.cz

Size: A4

Page: 2/3

Date:





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For powering internal electronics

For powering external devices with +3V3

For powering external devices with +5V

External (3v3 and 5v) is by default powered off. Can be switched on by CPU or permanently by solder-jumper.

All switching converters are by default in forced PWM mode (not in power save mode). It results in cleaner voltage output.

Universal battery and data storage unit.

Author: MLAB.cz

Size: A4

Page: 4/3

Date:

