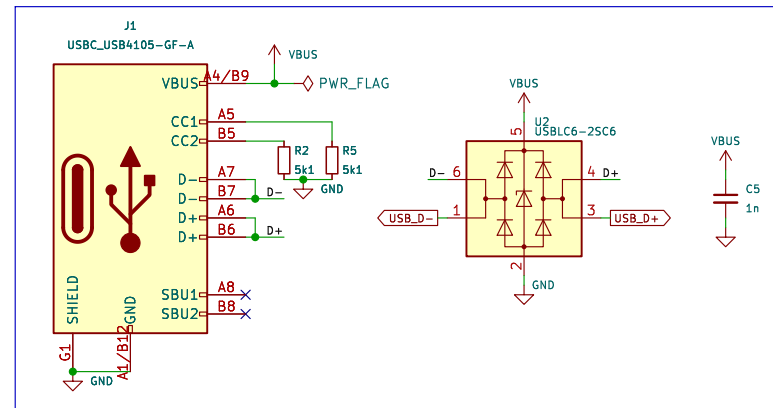
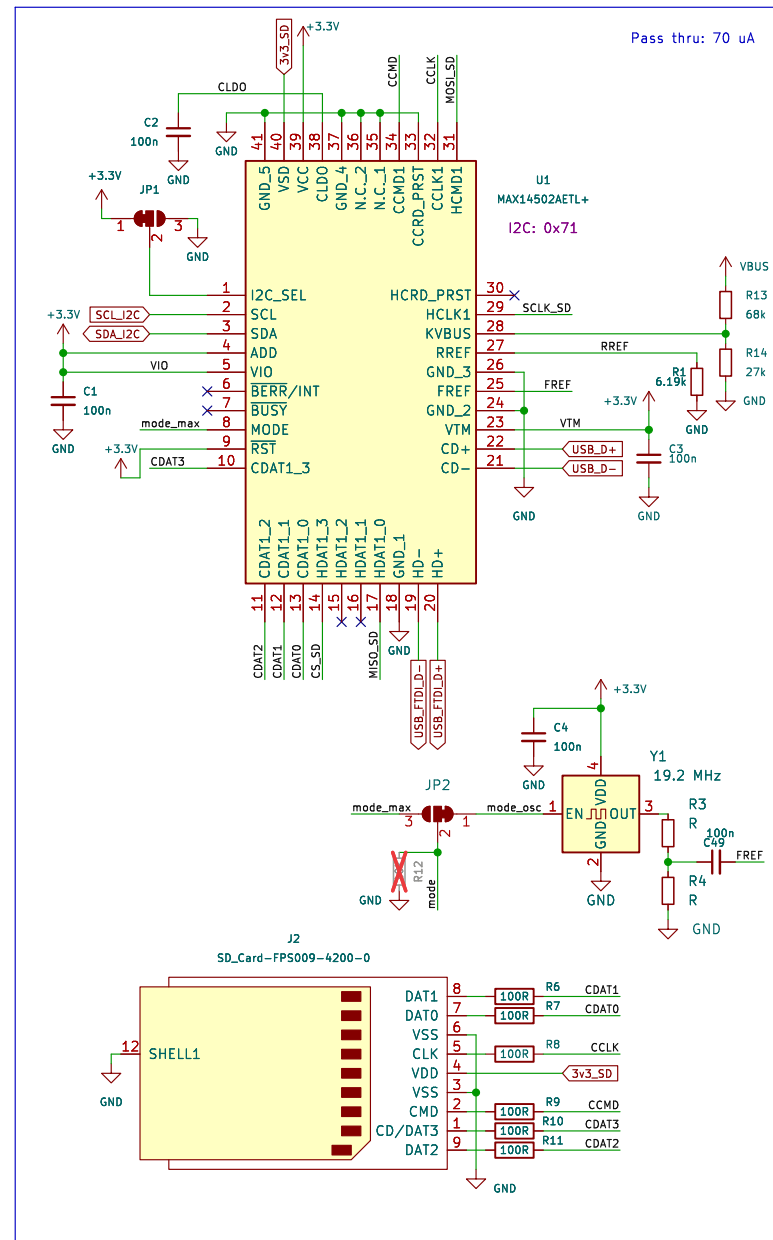


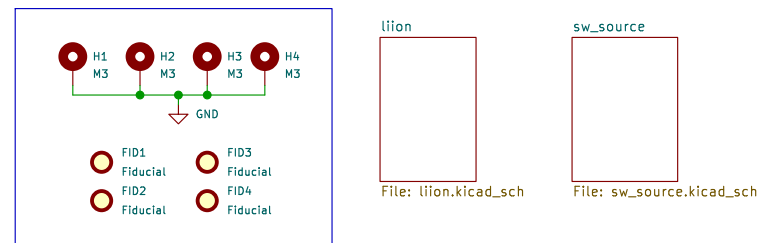
## USB-C connector and ESD protection



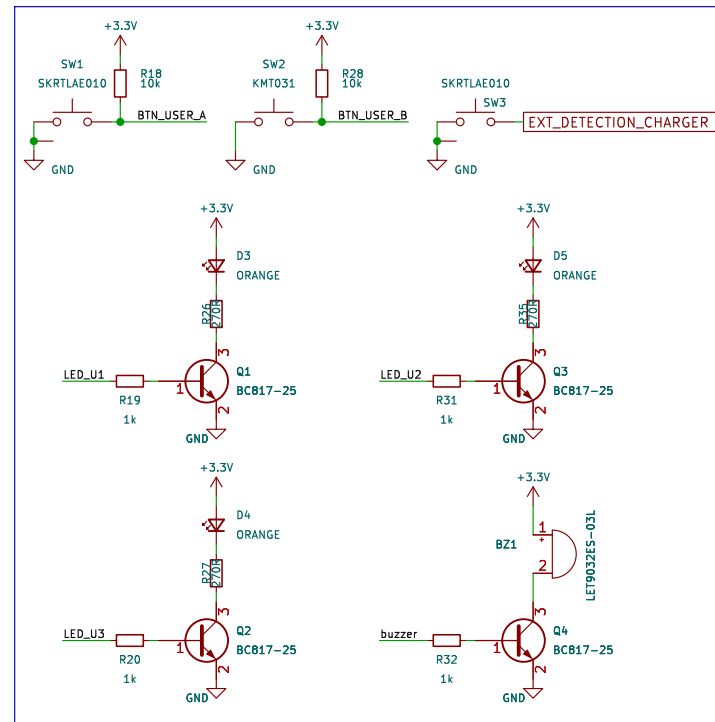
## SD card interface (USB to SDcard reader and USB-bridge to FTDI)



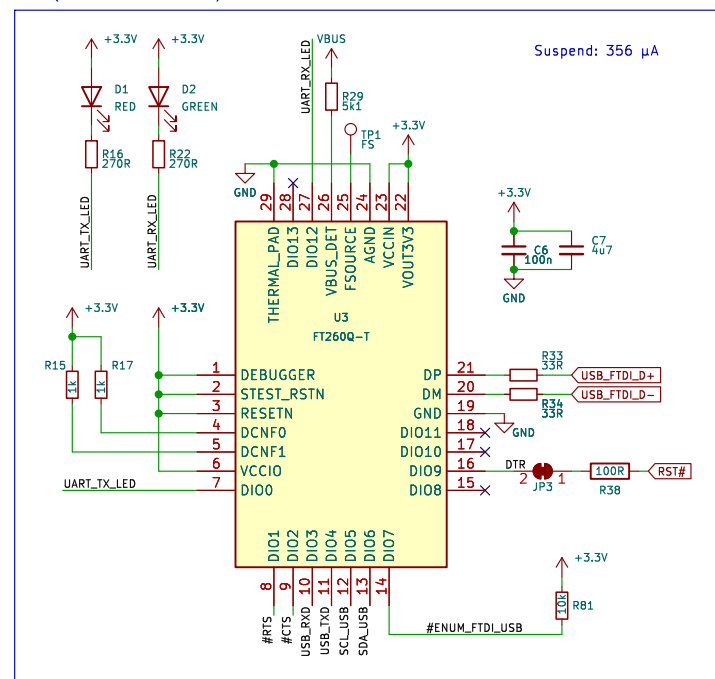
## Mechanical



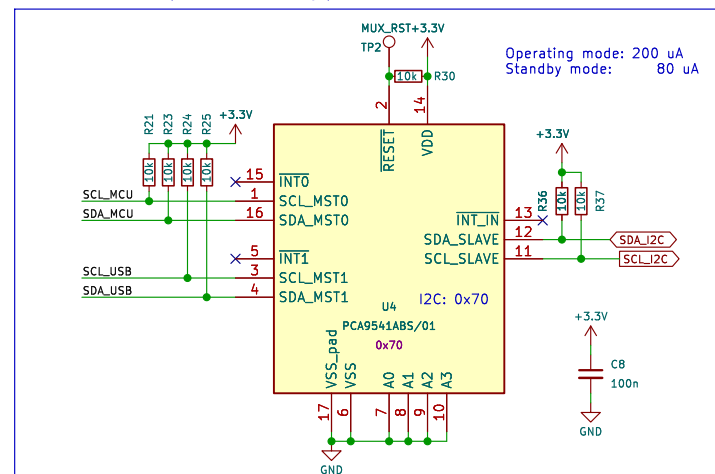
User interface (LED indicators, Buttons)



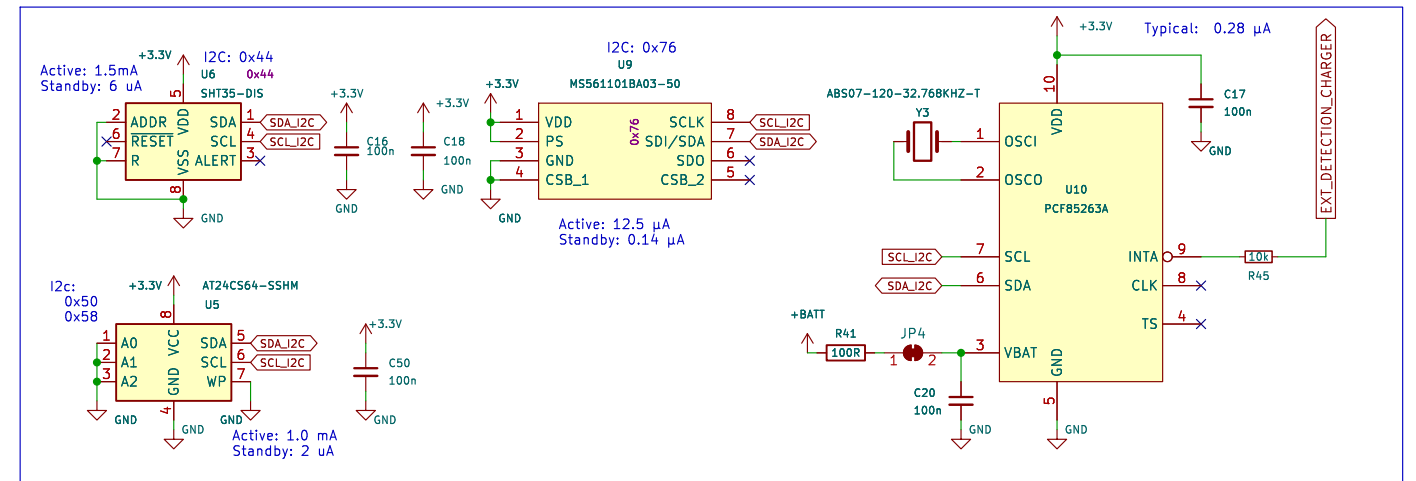
FTDI (USB to UART and I2C)



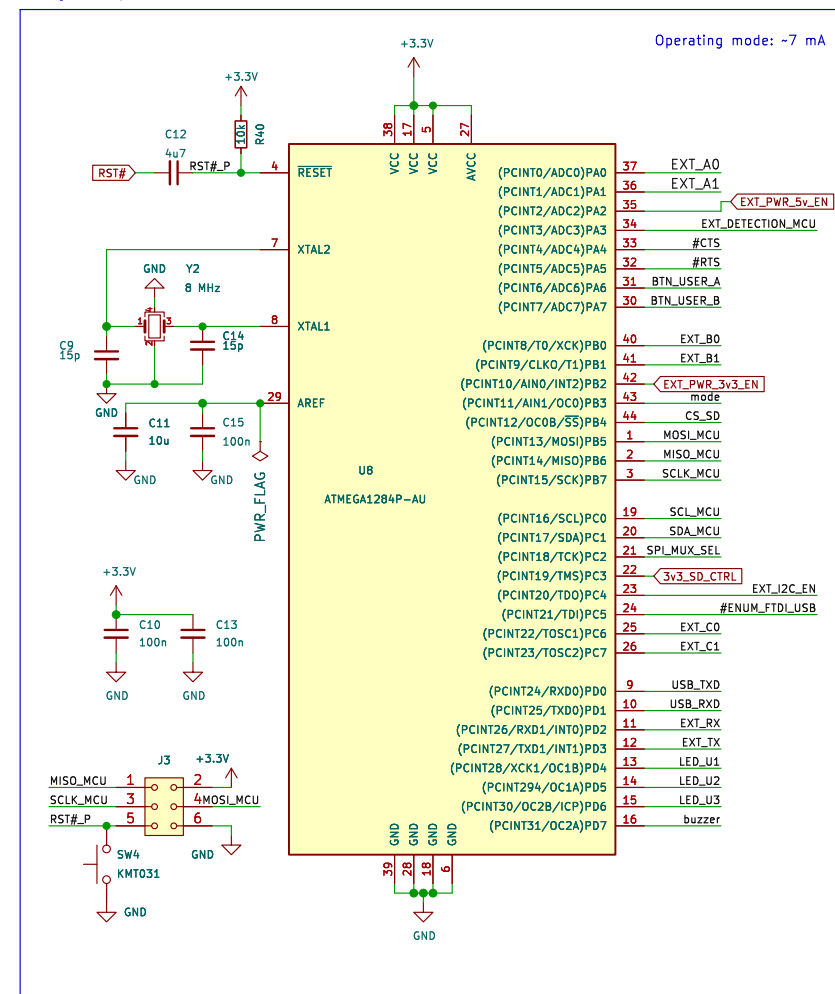
I2C master selector (from FTDI or ATmega)



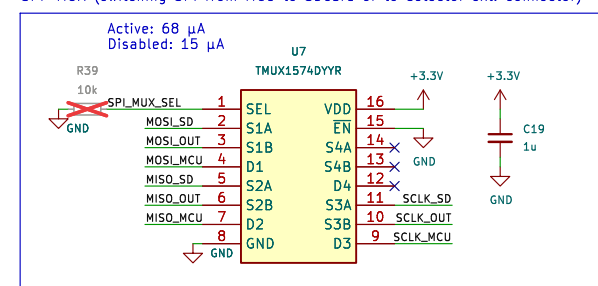
### I2C sensors and accessories (hygrometer, altimeter, eeprom, RTC)



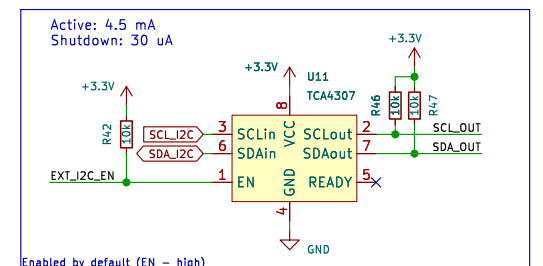
ATmega 1284p microcontroller



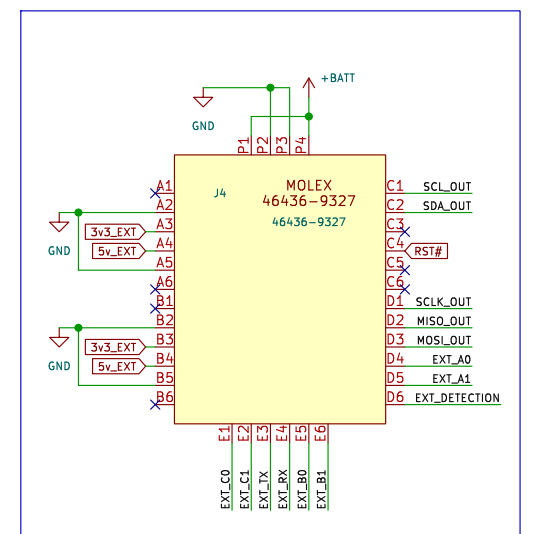
SPI-MUX (switching SPI from MCU to SDcard or to detector ext. connector)



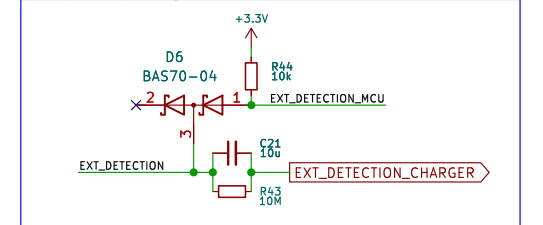
I2C buffer, allows to unconnect external I2C



Connector for detector board



### Auto-power up wiring



**Title: BATDATUNT101**

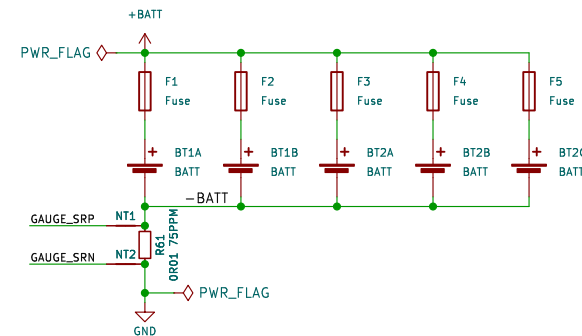
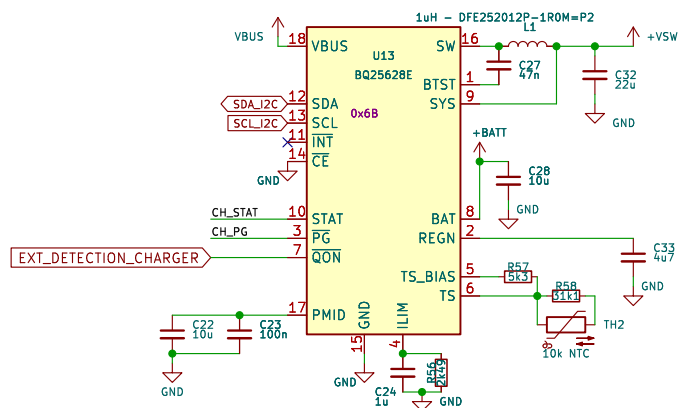
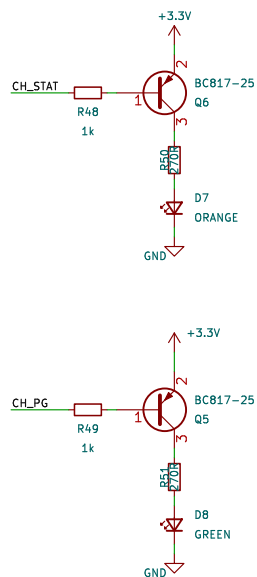
Universal battery and data storage unit.

Author: MLAB.cz, roman-dvorak

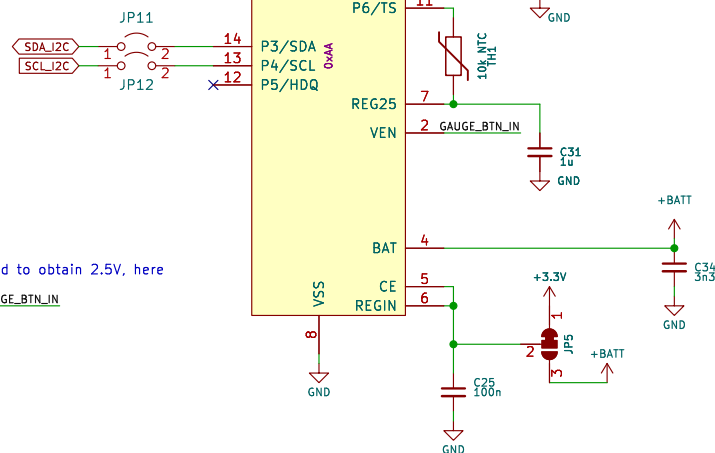
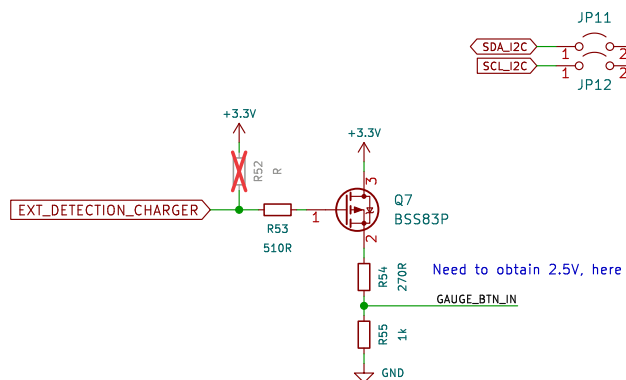
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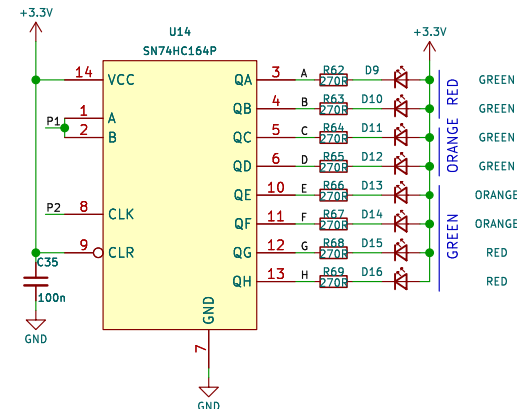
## BATTERY CHARGER



## FUEL GAUGE



## Battery Status Indicator



Doodhadnout optimální hodnoty odporů k LEDkám

Title: BATDATUNTIO1

Universal battery and data storage unit.

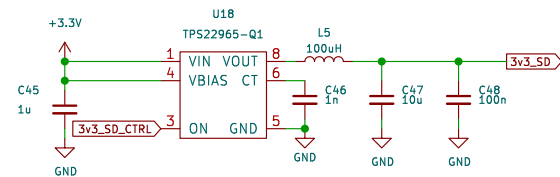
Author: MLAB.cz

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:

