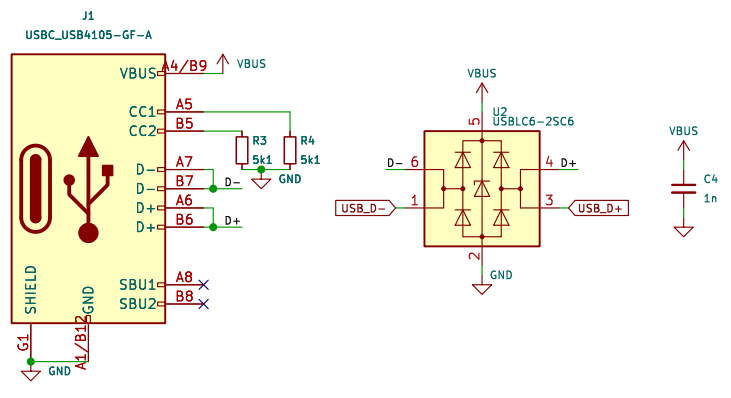
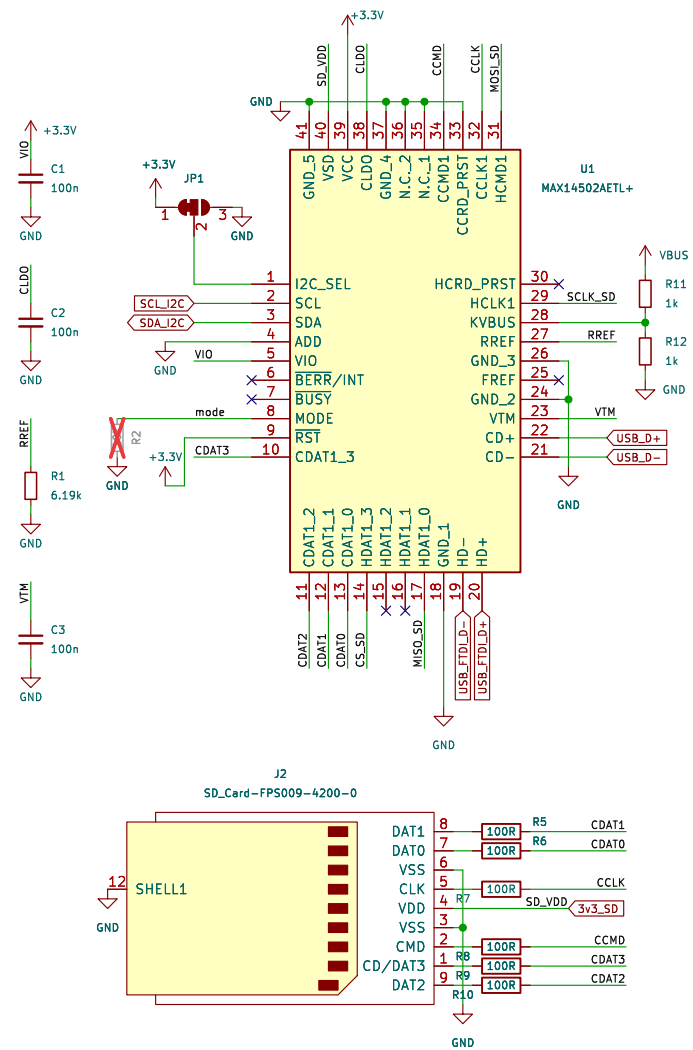


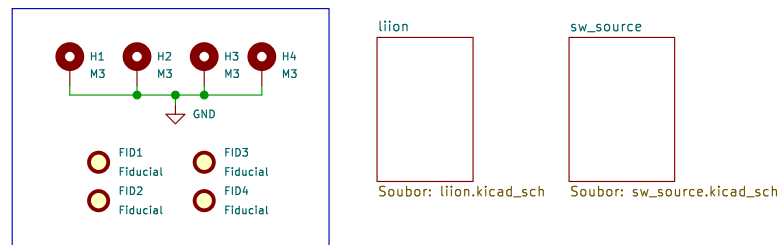
USB-C connector and ESD protection



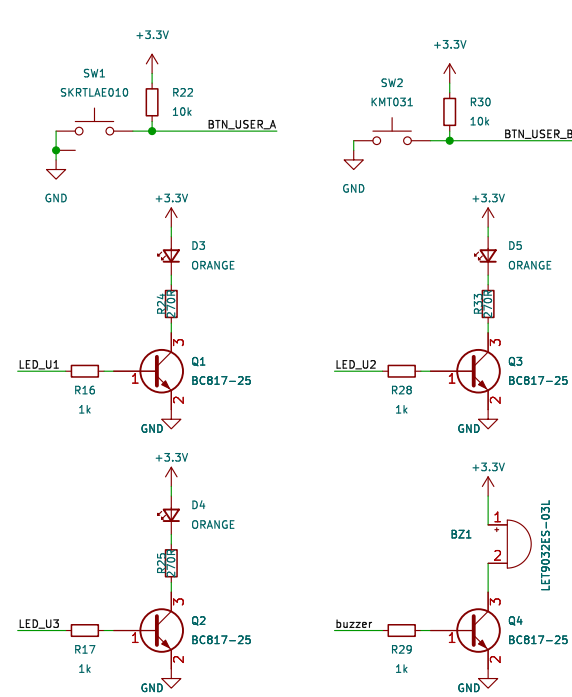
SD card interface (USB to SDcard reader and USB-bridge to FTDI)



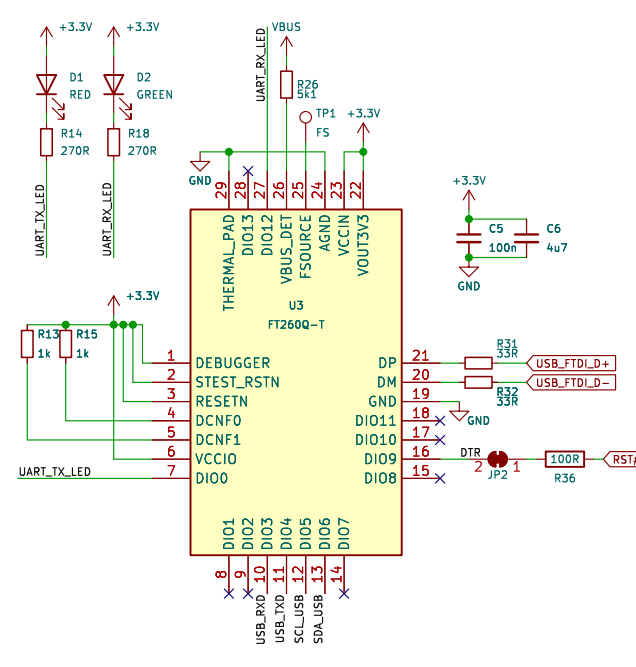
Mechanical



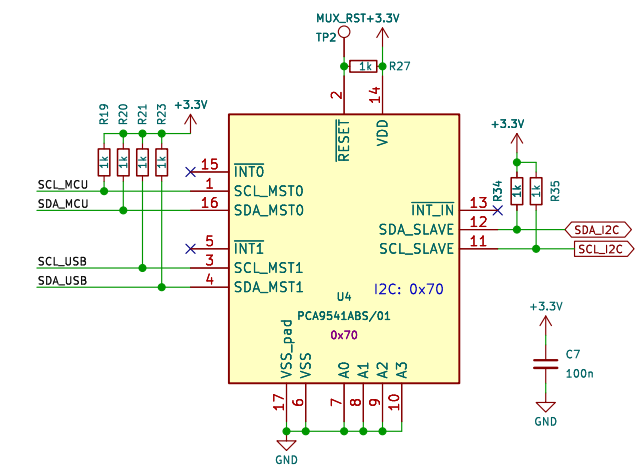
User interface (LED indicators, Buttons)



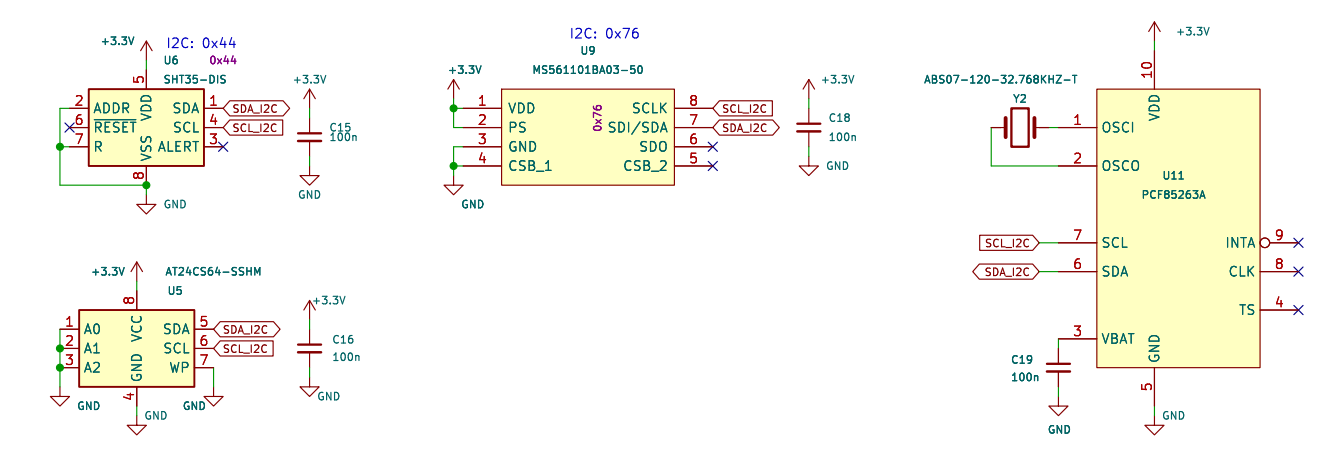
FTDI (USB to UART and I2C)



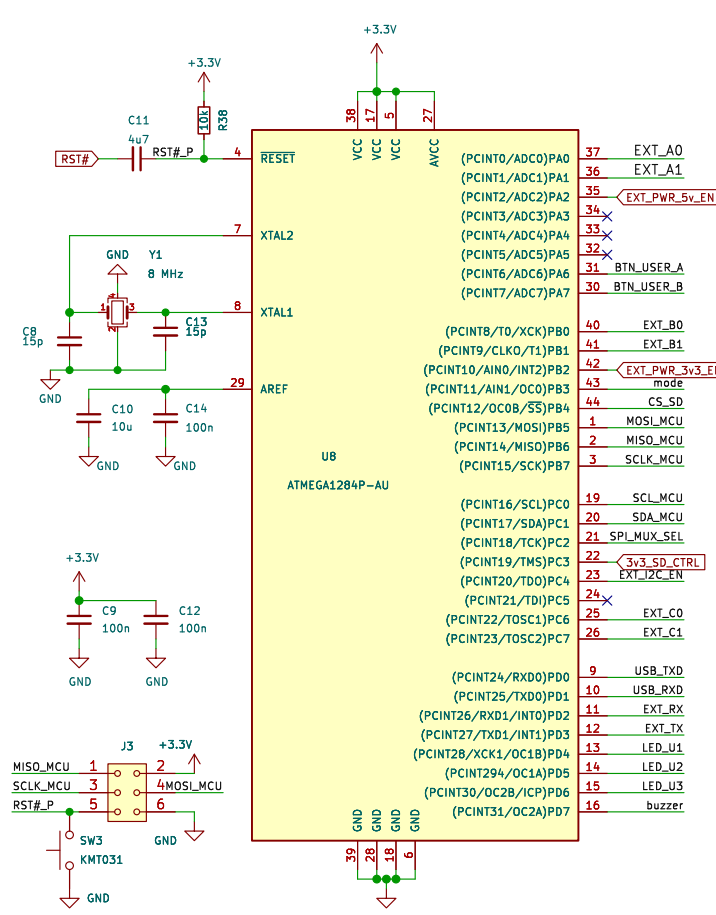
I2C master selector (from FTDI or ATmega)



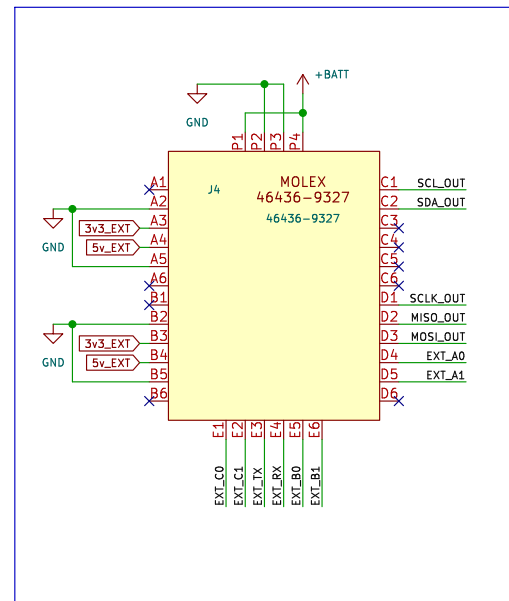
I2C sensors and accessories (hygrometer, altimeter, eeprom, RTC)



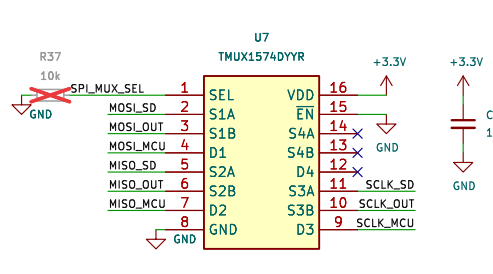
ATmega 1284p microcontroller



Connector for detector board



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



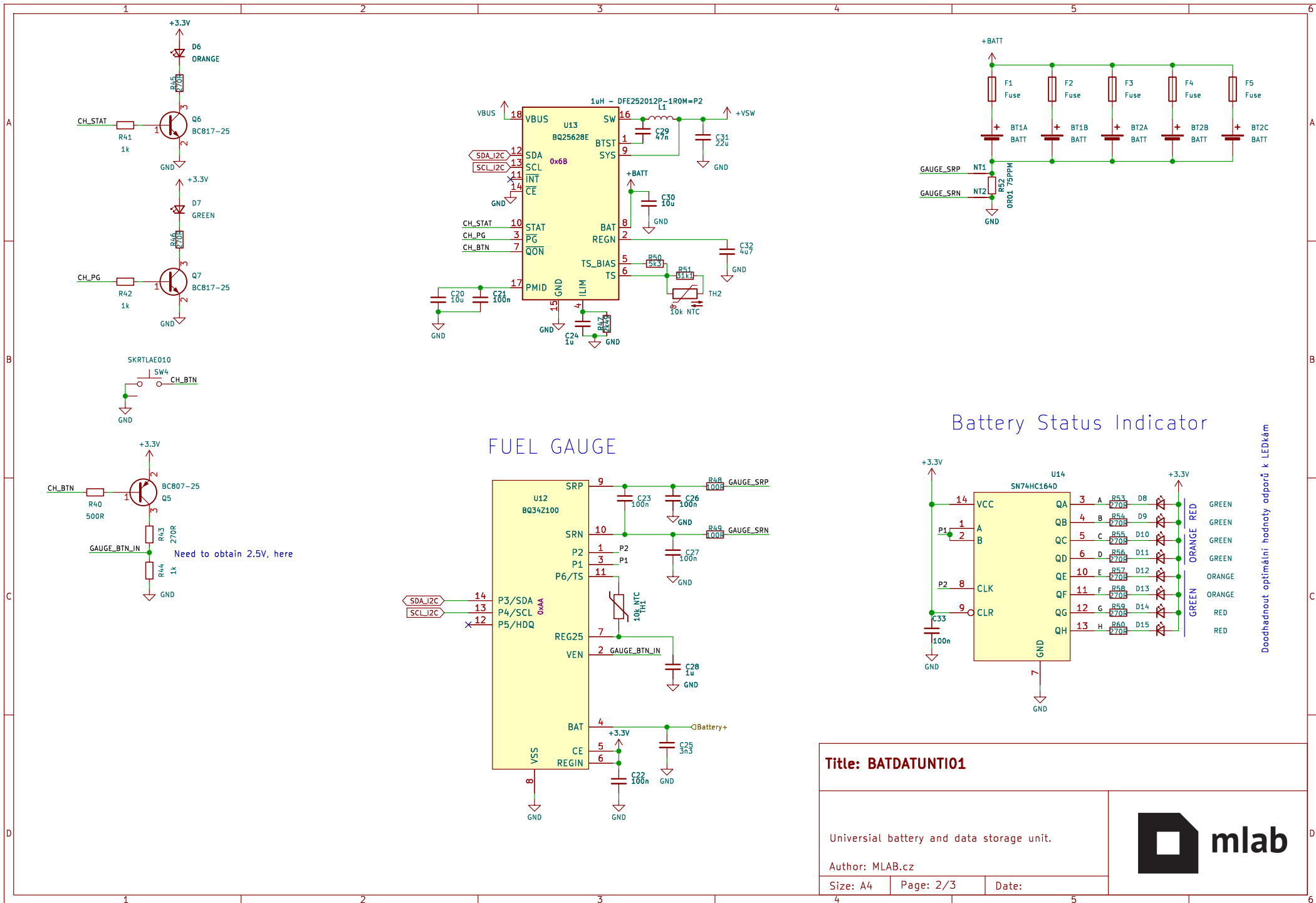
Title: BATDATUNT101

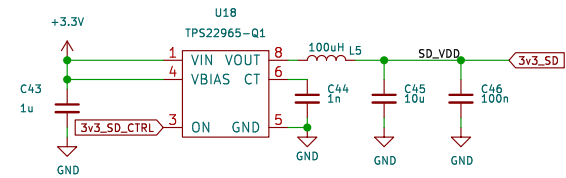
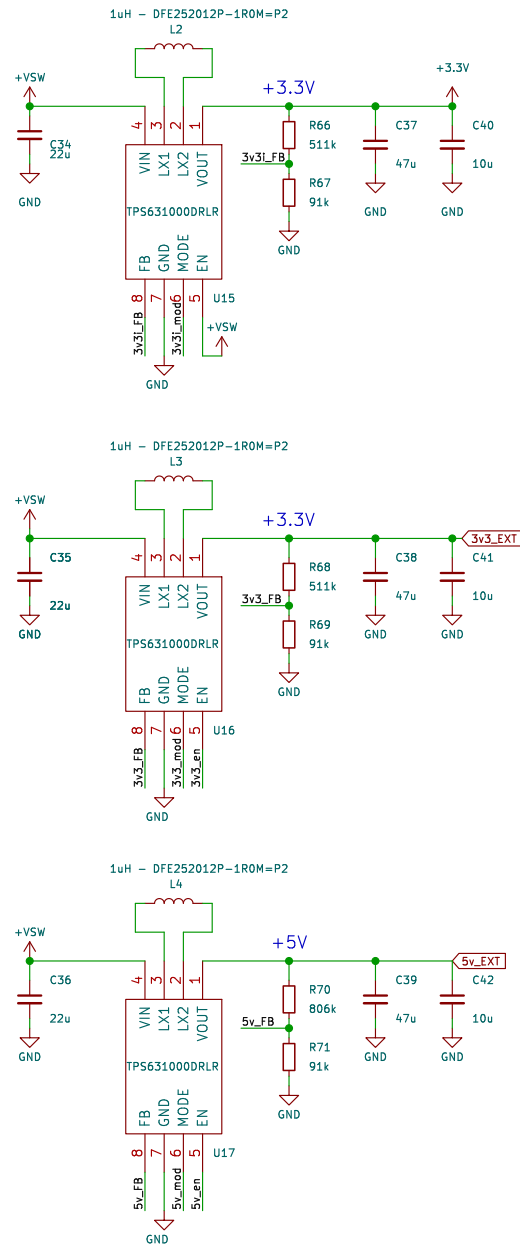
Universal battery and data storage unit.

Author: MLAB.cz, roman-dvorak

Size: A3 Page: 1/3 Date: 11-2023







3 switching sources
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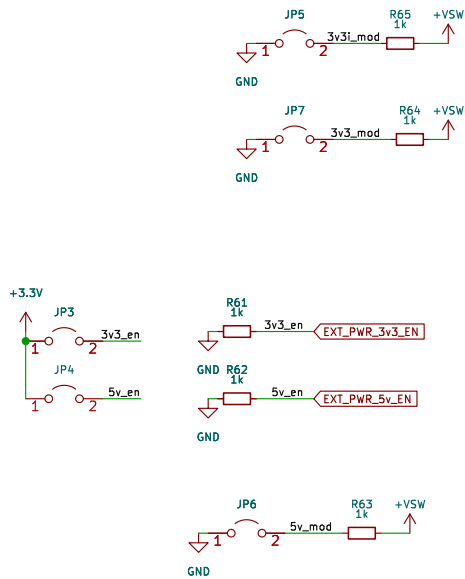
3v3 – Internal
For powering internal components

3v3 – External
For powering external components with 3v3

5v – External
For powering external components with 5v

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

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



Title: BATDATUNTIO1

Universal battery and data storage unit.

Author: MLAB.cz

Size: A4

Page: 4/3

Date:

