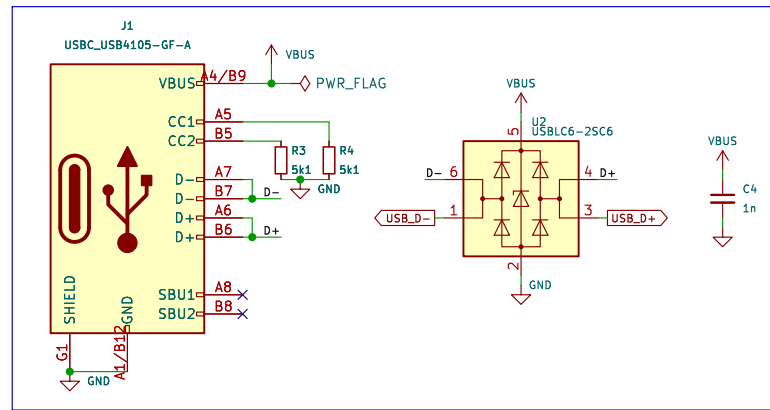
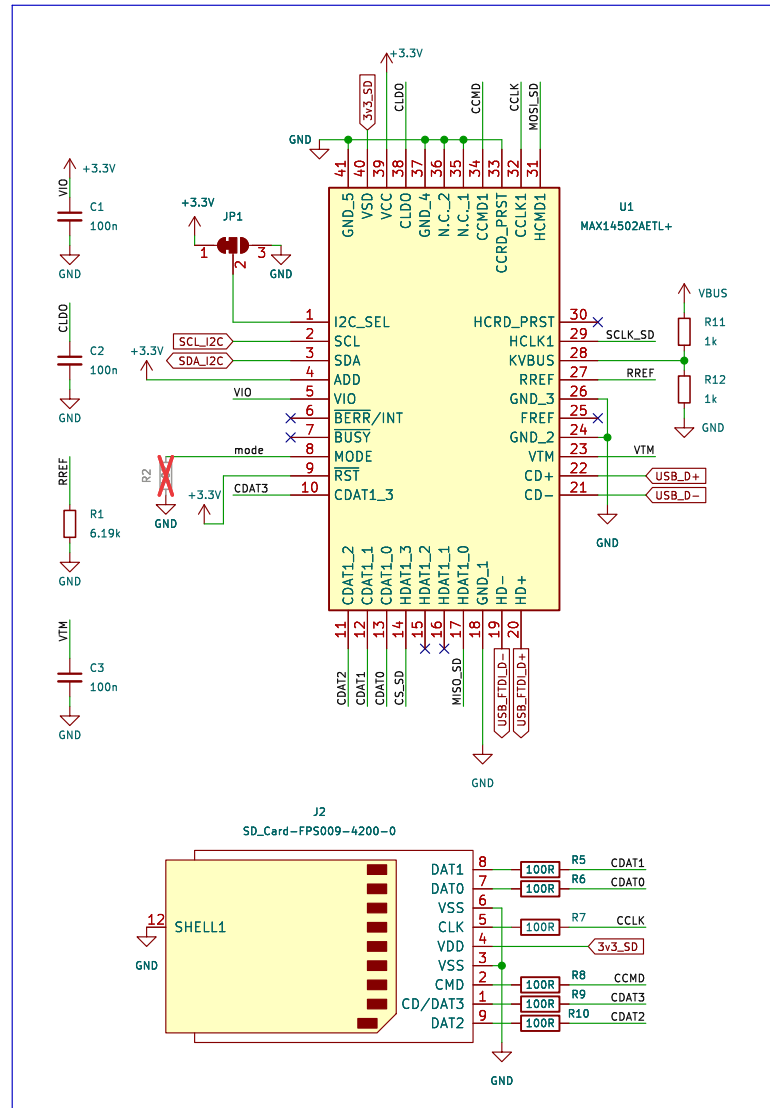


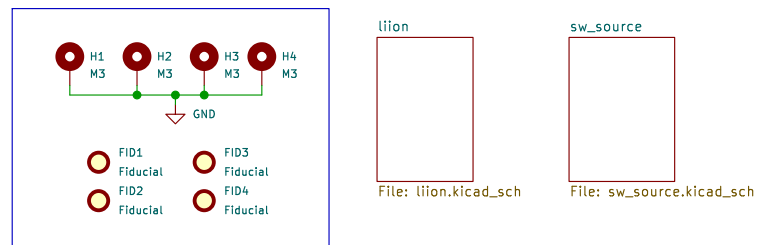
USB-C connector and ESD protection



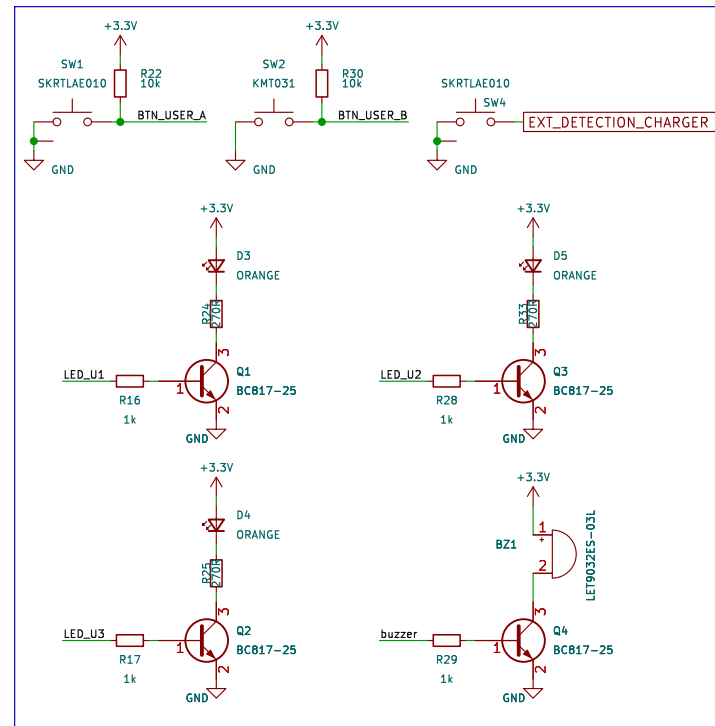
SD card interface (USB to SDcard reader and USB-bridge to FTDI)



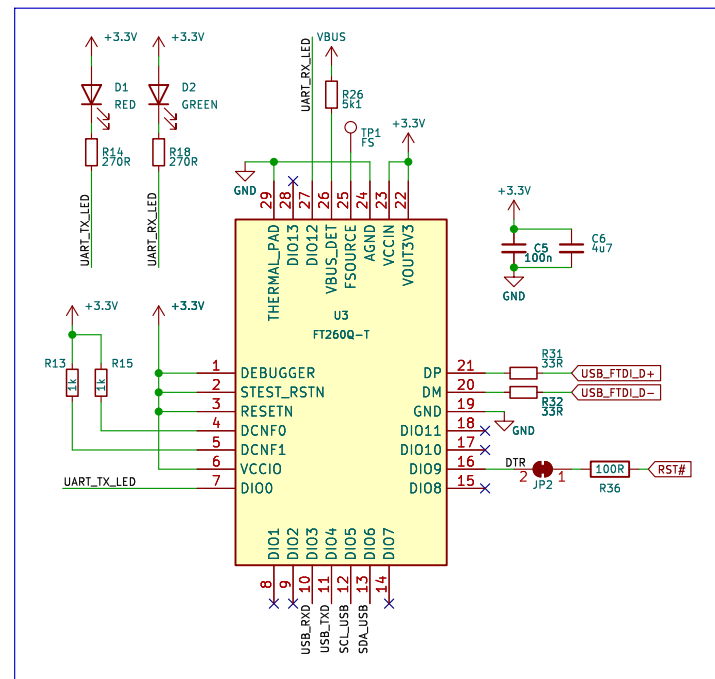
Mechanical



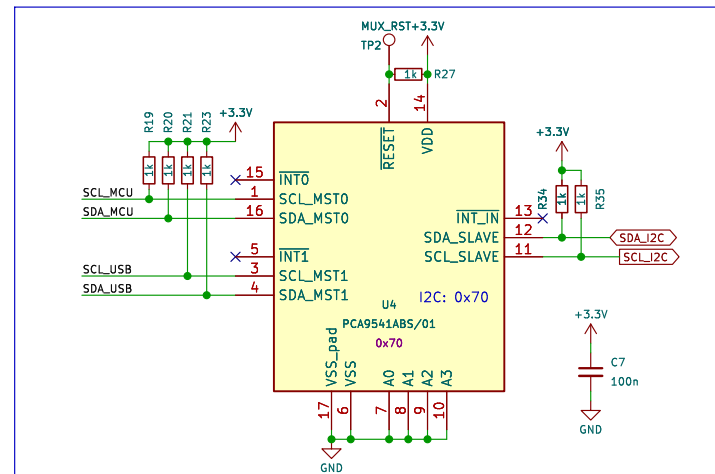
User interface (LED indicators, Buttons)



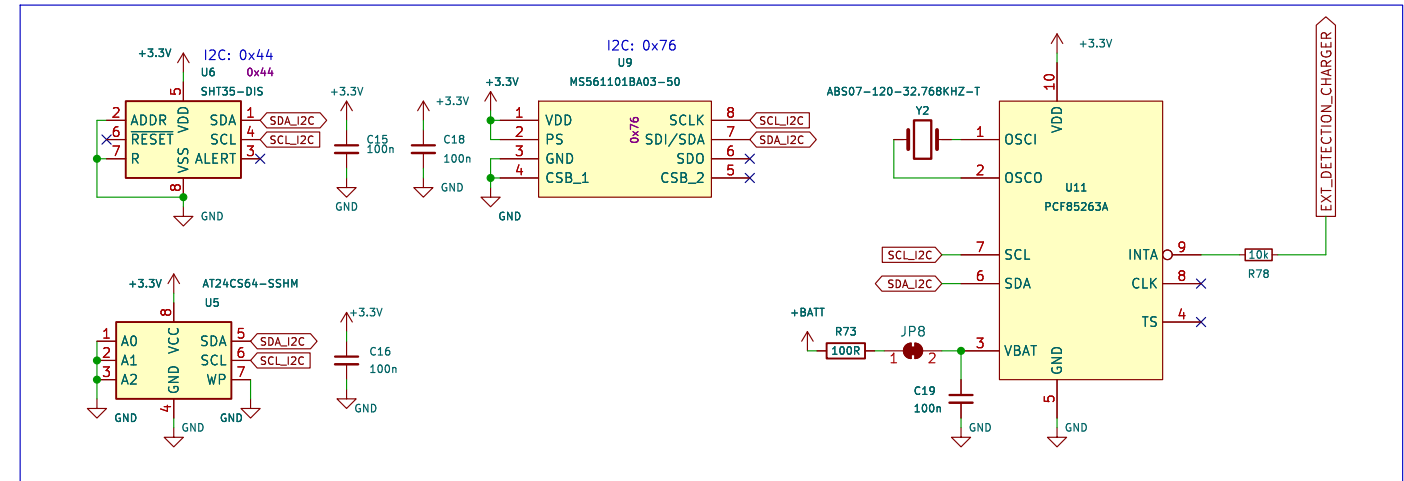
FTDI (USB to UART and I2C)



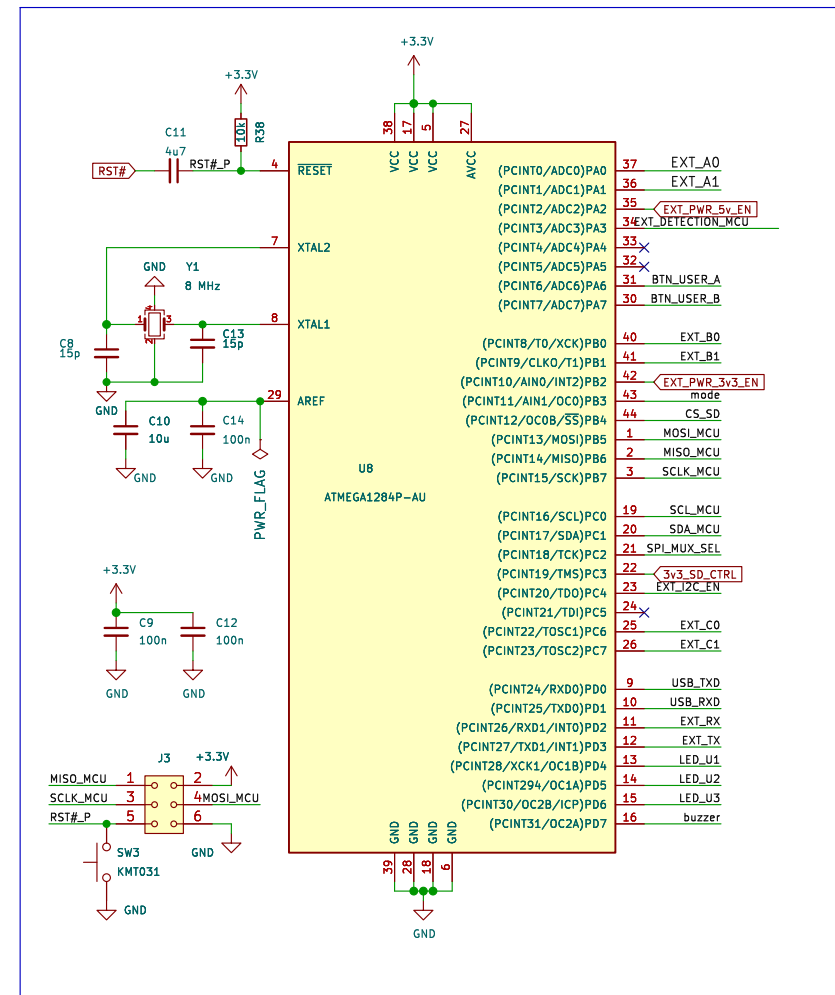
I2C master selector (from FTDI or ATmega)



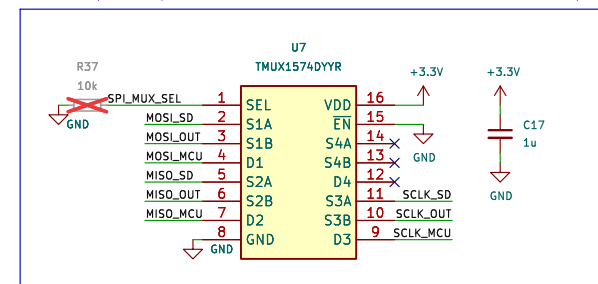
I2C sensors and accessories (hygrometer, altimeter, eeprom, RTC)



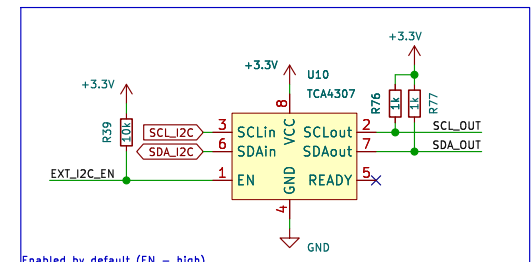
ATmega 1284p microcontroller



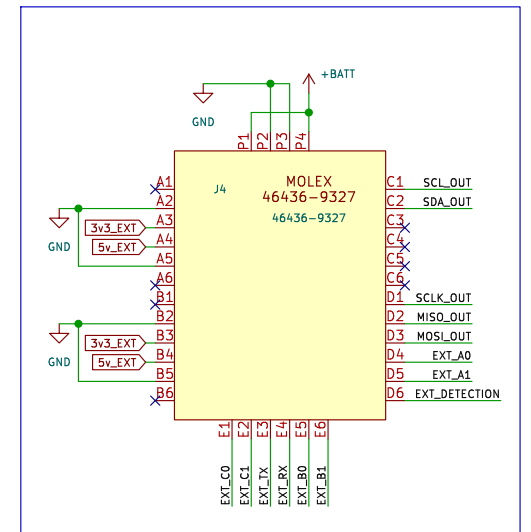
SPI-MUX (switching SPI from MCU to SDcard or to detector ext. connector)



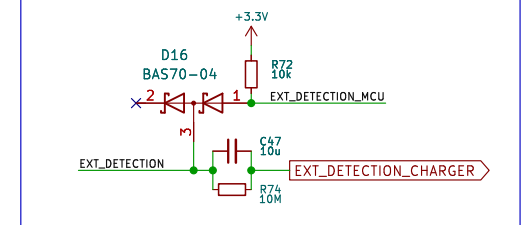
I2C buffer, allows to unconnect external I2C



Connector for detector board



Auto-power up wiring



Title: BATDATUNT101

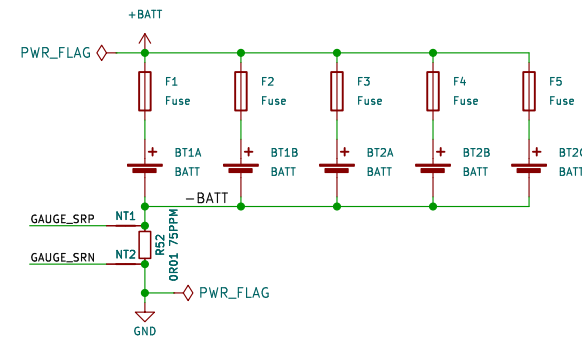
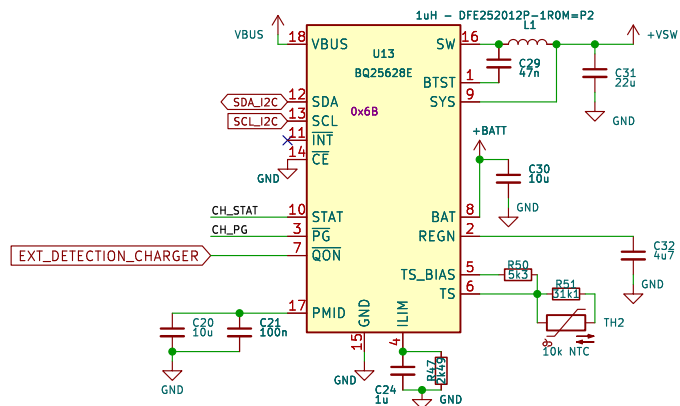
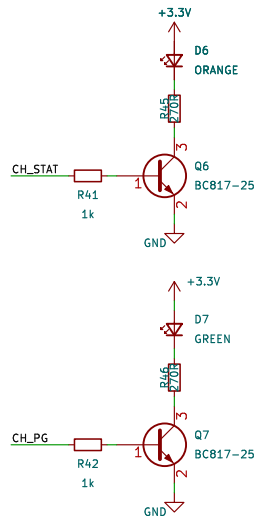
Universal battery and data storage unit.

Author: MLAB.cz, roman-dvorak

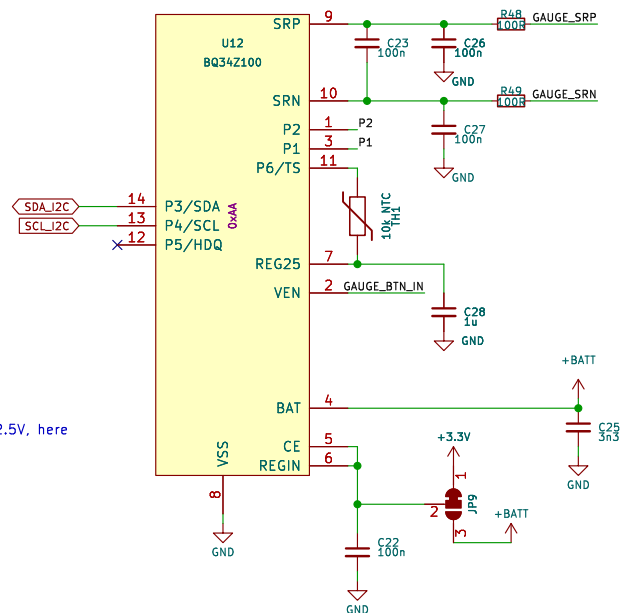
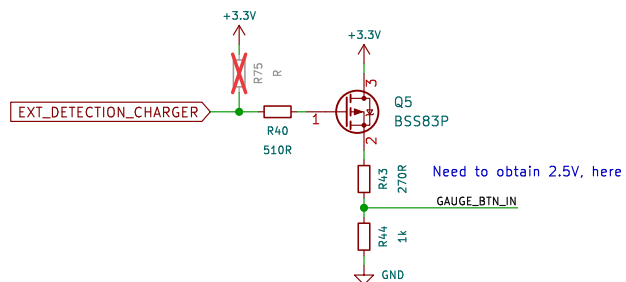
Size: A3 Page: 1/3 Date: 11-2023



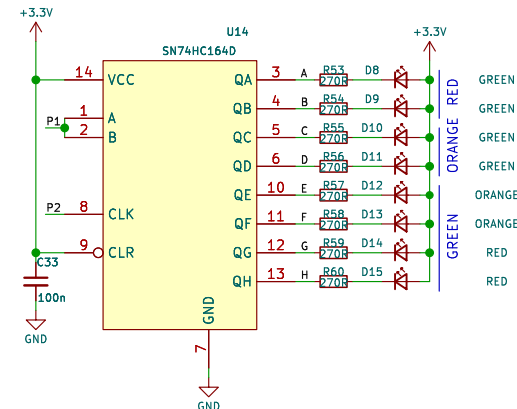
BATTERY CHARGER



FUEL GAUGE



Battery Status Indicator



Doodhadnout optimální hodnoty odporů k LEDkám

Title: BATDATUNTI01

Universal battery and data storage unit.

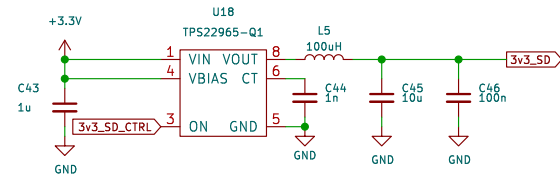
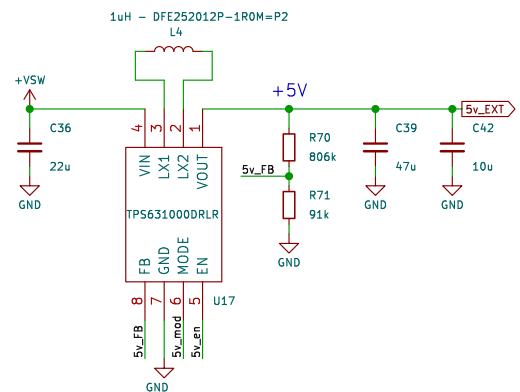
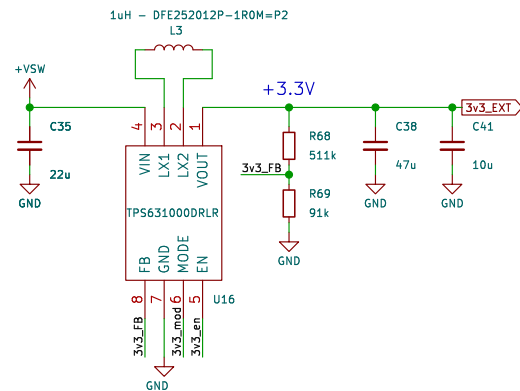
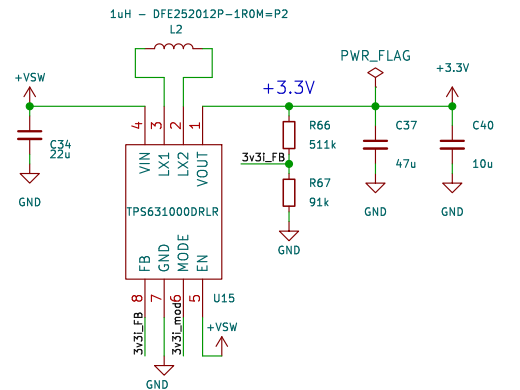
Author: MLAB.cz

Size: A4

Page: 2/3

Date:





3 switching sources

=====

3v3 – Internal

For powering internal components

3v3 – External

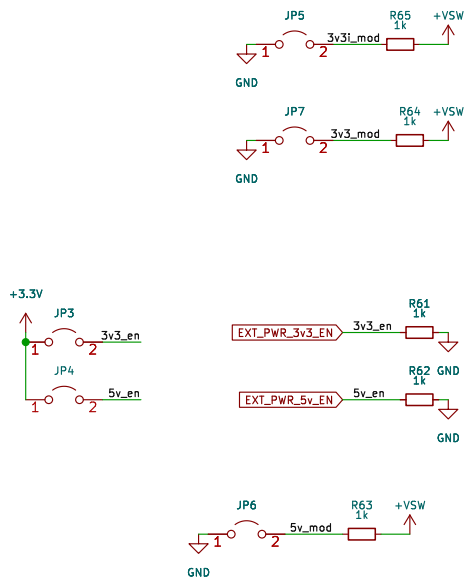
For powering external components with 3v3

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:

