Power ON/OFF push-button

USB connector
Micro-USB Type B receptacle

Slider switch
(sel1)-off-(sel2)
To STM32 GPIOs (*)

Power supply from LiPo battery

VDD pad

GND pad

OLED connector

UART Rx/GPIO

UART Tx/GPIO

***UART / GPIO interface** (**)*

GND

SWCLK

3V

SWDIO

NRST

SWD programmation interface

Red+Green charger status LED
Red LED : On = Charging
Green LED: Blinking = constant voltage charging phase ; On = Fully charged

Red LED, STM32 GPIO-controlled (***)

Green LED, STM32 GPIO-controlled (***)

Forced reset push-button

(*)   Slider switch position 1 connects to STM32 pin PC12
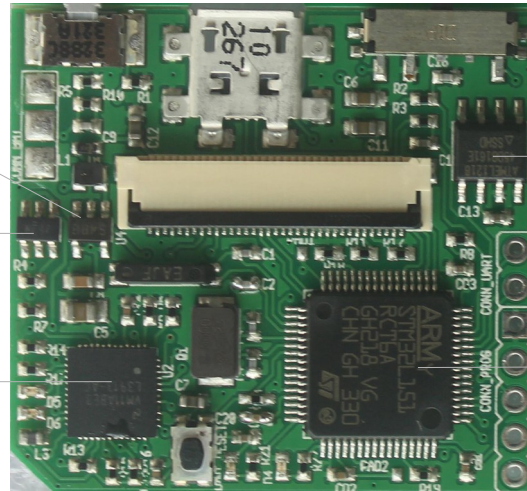*Slider switch position 2 connects to STM32 pin PA15*

(**)   UART/GPIO interface pin assigment on STM32 side:
- UART-Rx/GPIO on pin PA10
- UART-Tx/GPIO on pin PA9

(***) Red LED controlled from GPIO pin PA3
Green LED controlled from GPIO pin PA2

DC-DC boost converter
TI LM2703

Load switch
TI TPS22929

Power Management IC
TI LP3913

Data Flash, 32Mbit
ADESTO AT45DB161E

STM32 Microcontroller,
256KB Flash, 32K SRAM
STM32L151RC