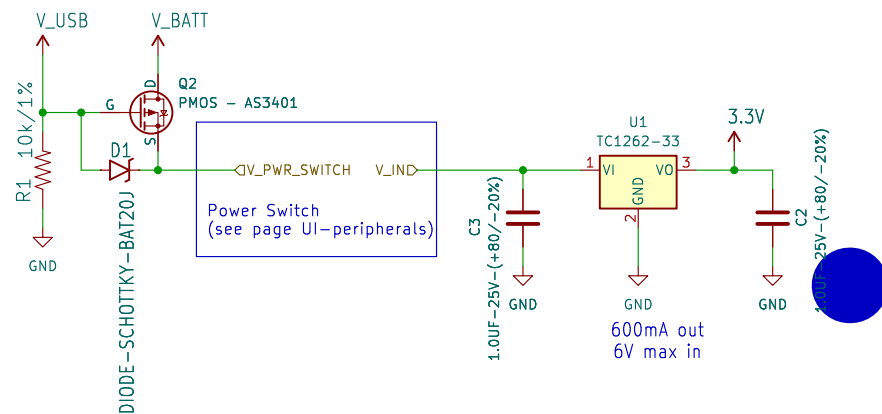
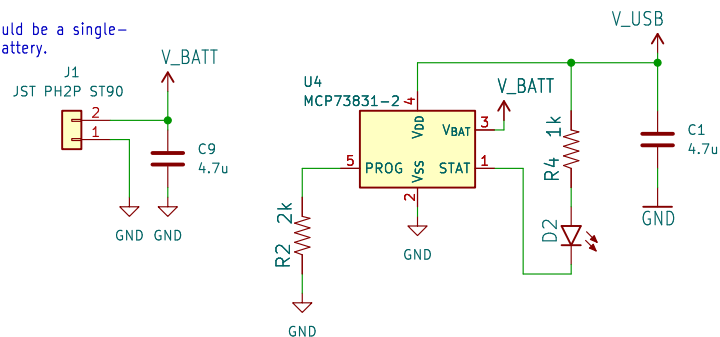


Voltage Regulator



Lithium-Polymer Battery Charger (1-cell)

V_BATT should be a single-cell LiPo battery.



Charge current:
 $I_{CHG} = 1000 / R_{PROG}$
 $R_{PROG}=2k : I_{CHG}=500mA$

Sheet: /Battery_and_Power_Managment/
 File: untitled.kicad_sch

Title: Battery and Power Management

Size: A4

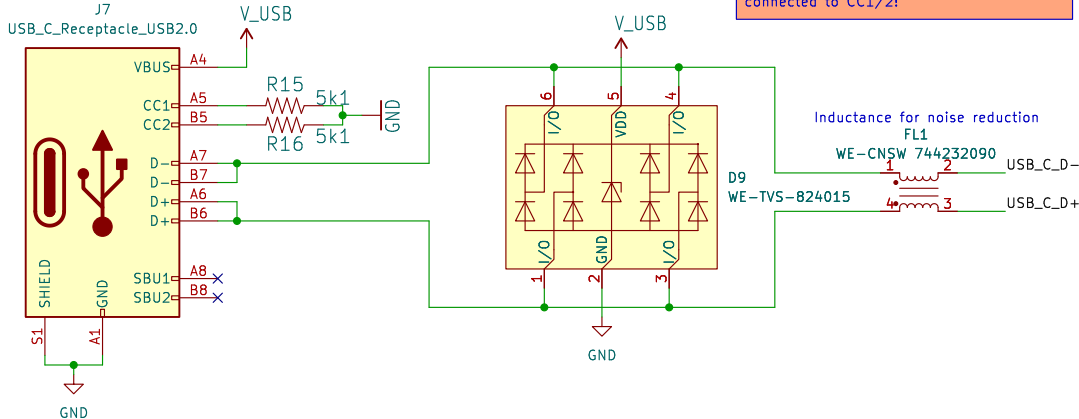
Date:

KiCad E.D.A. kicad 7.0.8

Rev: V1

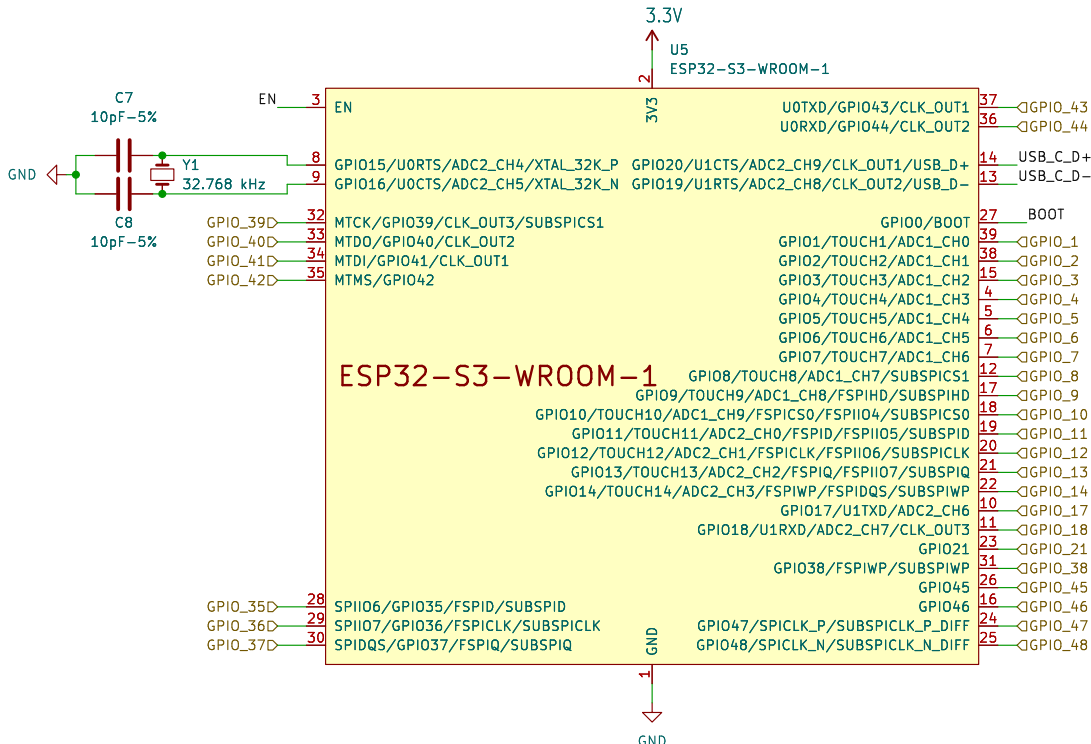
Id: 2/5

USB-C Plug for flashing and battery charging

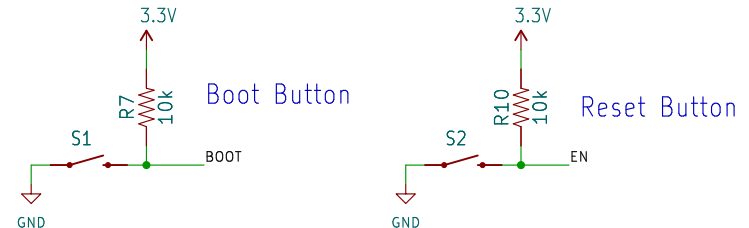


NOTE
USB-C suply max. 2,5 W (= 5V, 500 mA)
Otherwise PD-Controller needs to be
connected to CC1/2!

Microcontroller and Bluetooth Module



Manual-Reset



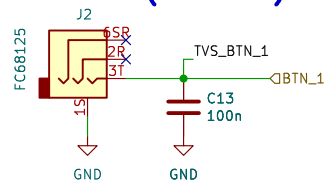
Sheet: /Microcontroller/
File: Microcontroller.kicad_sch

Title: Microcontroller and USB-C Connector

Size: A4	Date:
KiCad E.D.A.	kiCad 7.0.8

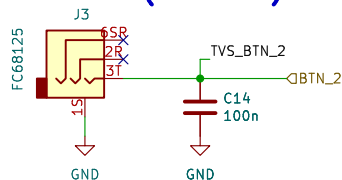
Rev:
Id: 3/5

Button 1 (external)



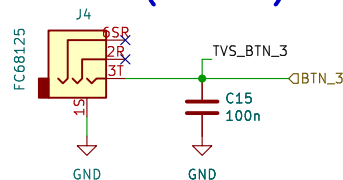
Jacks (same as on FABI)
Cliff FC68125
RS Pro 805-1655
Lumberg 1503 19
Aliexpress: "PJ321C" hard to find, here is a link:
www.aliexpress.com/item/32665420060.html
Note: might not fit that well!

Button 2 (external)



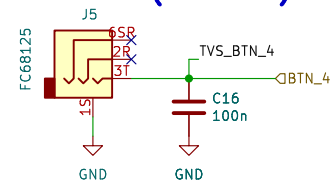
Jacks (same as on FABI)
Cliff FC68125
RS Pro 805-1655
Lumberg 1503 19
Aliexpress: "PJ321C" hard to find, here is a link:
www.aliexpress.com/item/32665420060.html
Note: might not fit that well!

Button 3 (external)



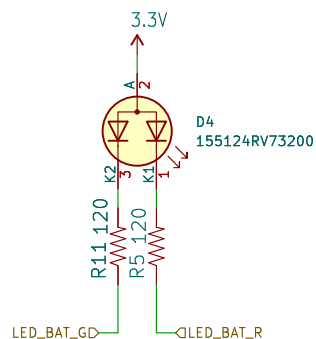
Jacks (same as on FABI)
Cliff FC68125
RS Pro 805-1655
Lumberg 1503 19
Aliexpress: "PJ321C" hard to find, here is a link:
www.aliexpress.com/item/32665420060.html
Note: might not fit that well!

Button 4 (external)

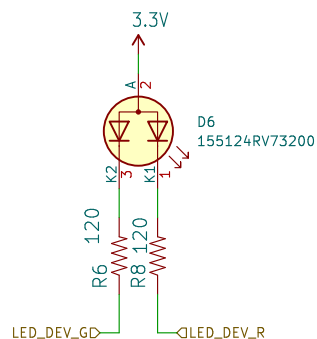


Jacks (same as on FABI)
Cliff FC68125
RS Pro 805-1655
Lumberg 1503 19
Aliexpress: "PJ321C" hard to find, here is a link:
www.aliexpress.com/item/32665420060.html
Note: might not fit that well!

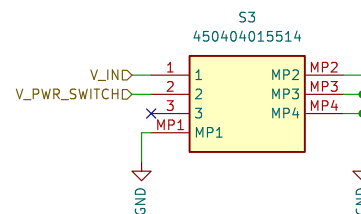
Battery Status LED (bi-color red-green)



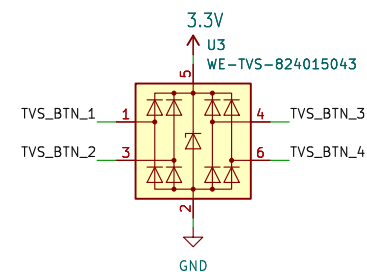
Device Status LED (bi-color red-green)



Power Switch



TVS Diodes for Button Jacks



Sheet: /UI_Peripherals/
File: UI_Peripherals.kicad_sch

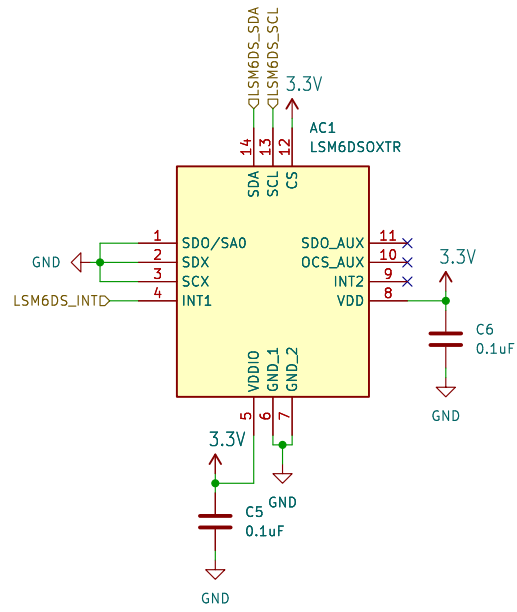
Title: User_Interface_Peripherals

Size: A4
KiCad E.D.A. kicad 7.0.8

Date:

Rev:
Id: 4/5

6-Axis IMU



9-Axis IMU