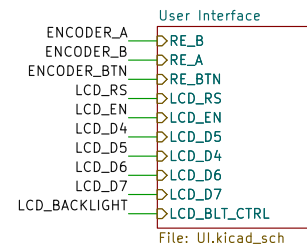
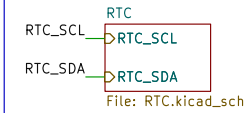


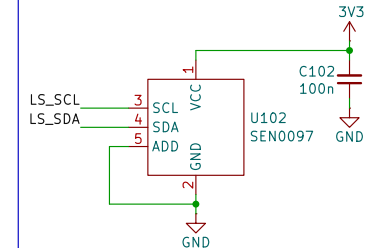
## User interface control



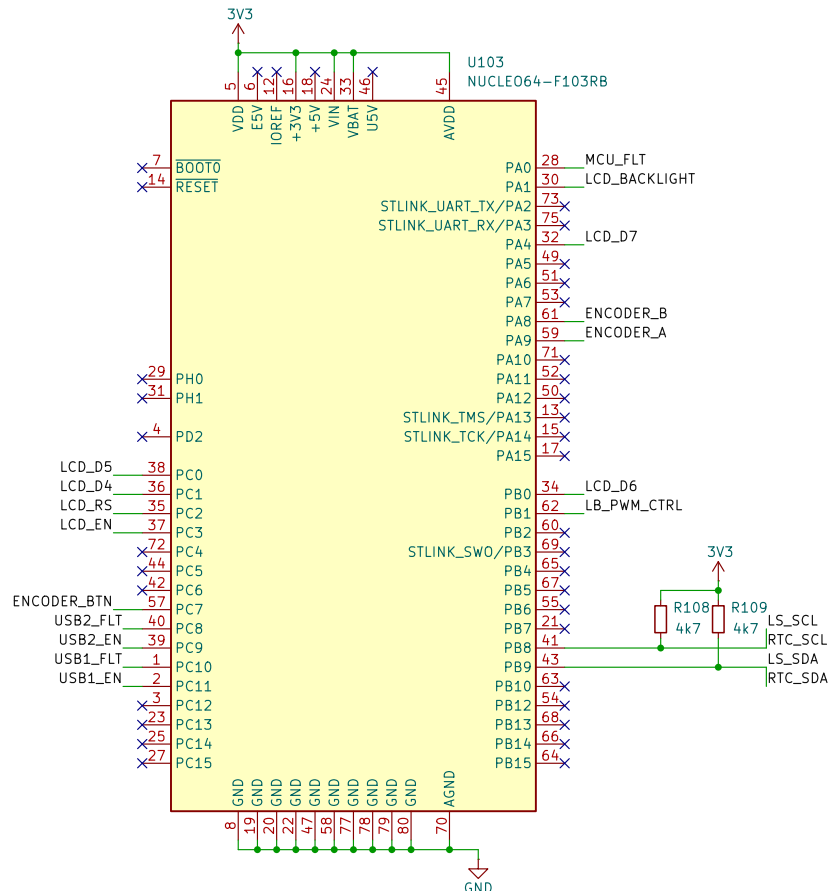
## Real Time Clock



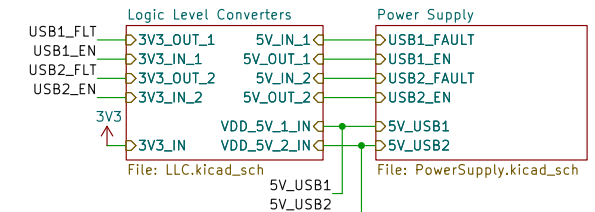
## Light Sensor



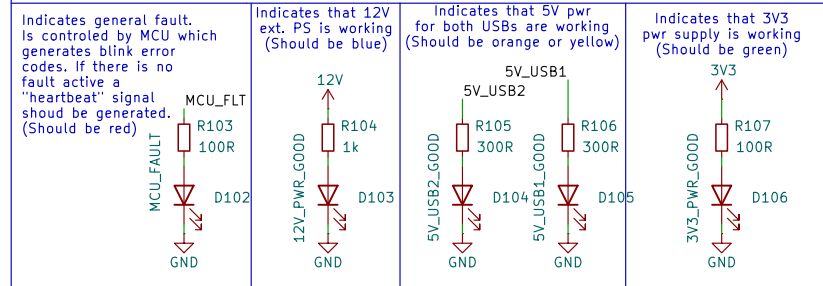
## MCU (Nucleo-F103RB)



## Power Supply Control



## Indicator LEDs



Sheet: /  
File: PoteznyWybudzaczSwietlly.kicad\_sch

**Title:**

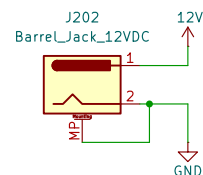
Size: A4

Date:

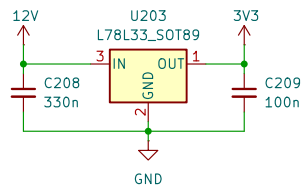
Rev:

Id: 1/5

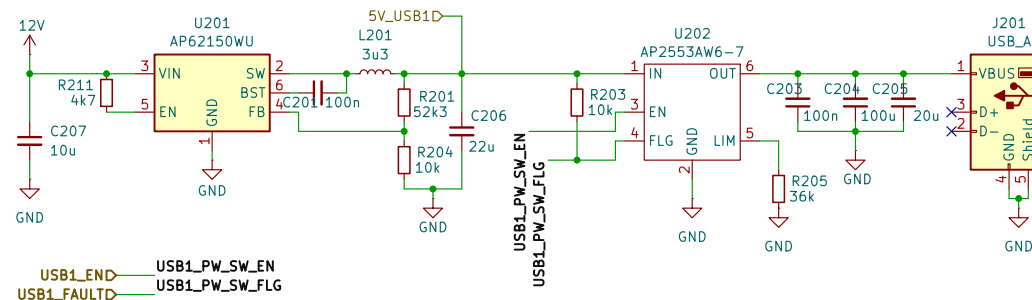
## 12V External PS connector



## Control logic PS

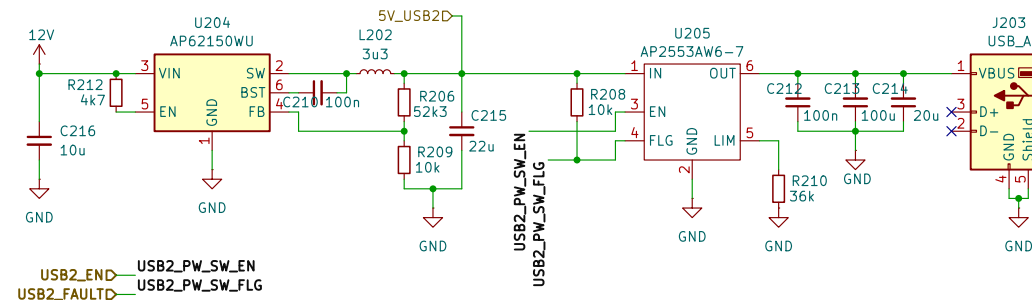


## USB1 PS



USB1 and USB2 power supplies are separated to ensure that they are independent of each other  
(if one USB is shorted/faulty, the other one can be functional)  
and decrease the load of used DC-DC converters, so less efficient  
and less complex ones can be used (and there is less heat dicipation)

## USB2 PS



Sheet: /Power Supply/  
File: PowerSupply.kicad\_sch

### Title:

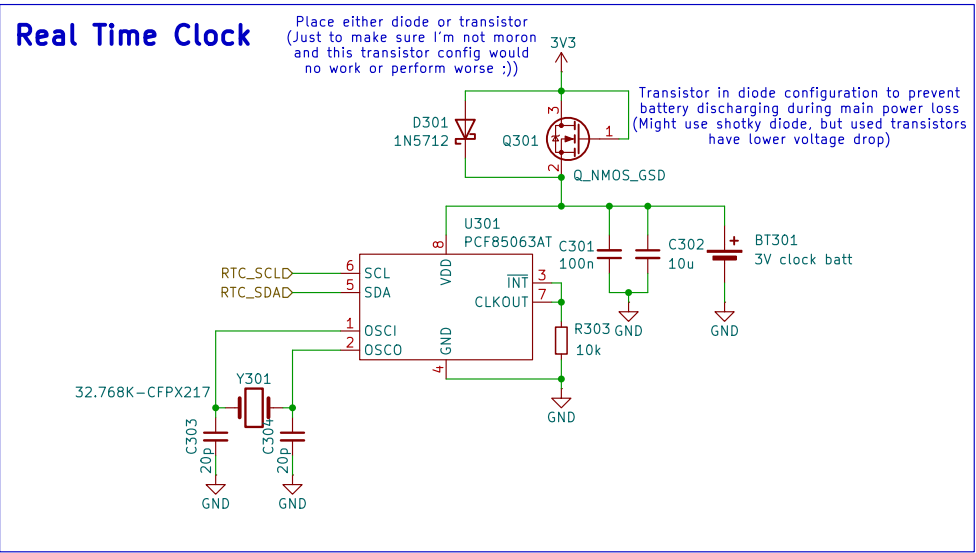
Size: A4

Date:

KiCad E.D.A. 8.0.7

Rev:

Id: 3/5



Sheet: /RTC/  
File: RTC.kicad\_sch

**Title:**

Size: A4

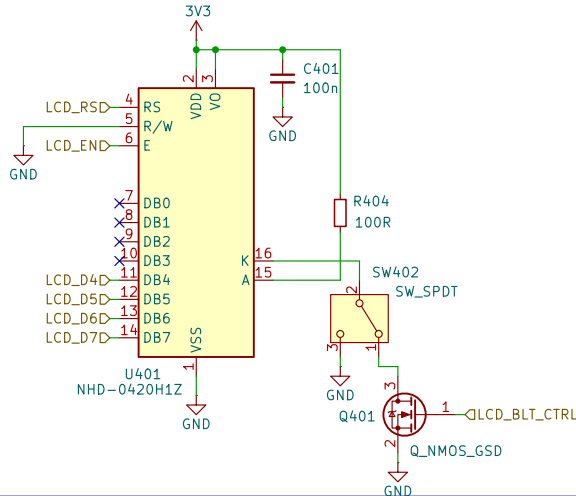
Date:

KiCad E.D.A. 8.0.7

**Rev:**

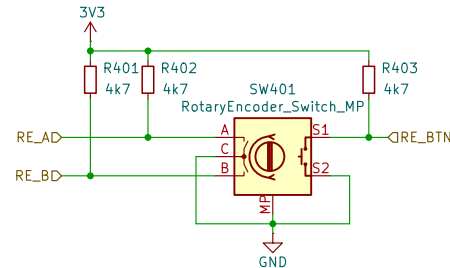
Id: 4/5

Control display



Rotary Encoder

Used to contol user interface



Sheet: /User Interface/  
File: UI.kicad\_sch

Title:

Size: A4

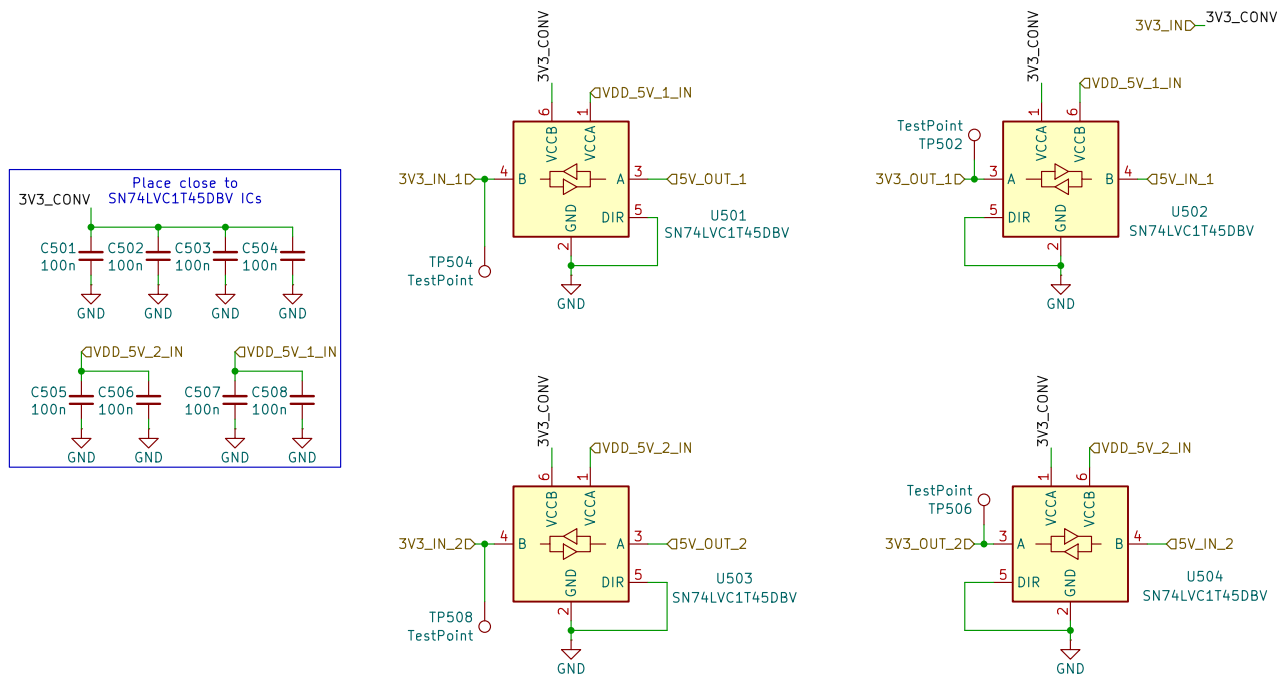
Date:

KiCad E.D.A. 8.0.7

Rev:

Id: 5/5

## Logic Level Conversion for USB PS control



Sheet: /Logic Level Converters/  
File: LLC.kicad\_sch

### Title:

Size: A4

Date:

KiCad E.D.A. 8.0.7

Rev:

Id: 5/5