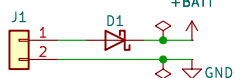
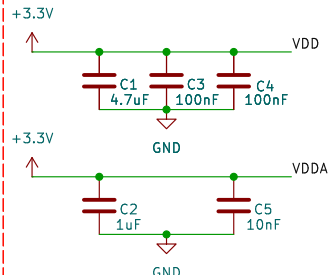


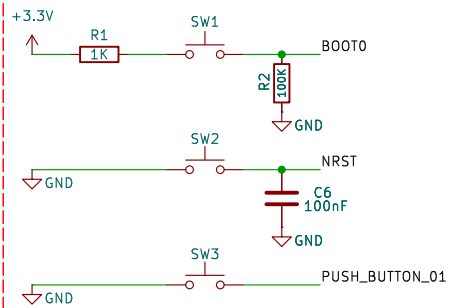
MIKROE-1120  
Lithium Ion Polymer (LiPo) Battery  
2000mAh



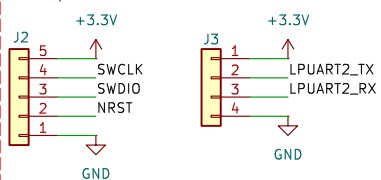
Decoupling Capacitors  
VDD => n x 100nF + 1 x 4.7uF  
VDDA => 1 x 10nF + 1 x 1uF



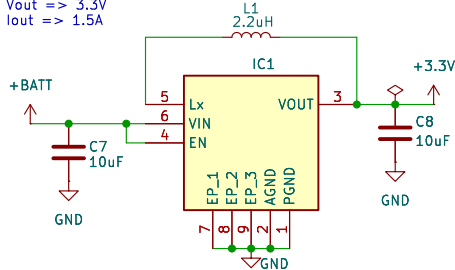
BOOT0 | NRST | PB\_01



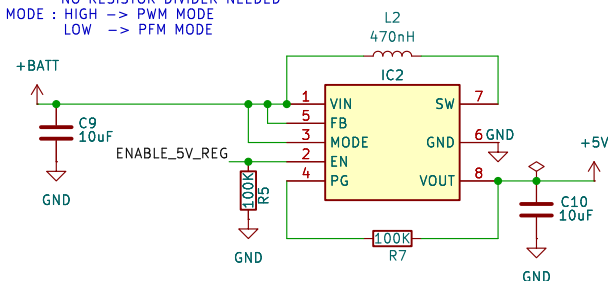
DEBUG | LPUART



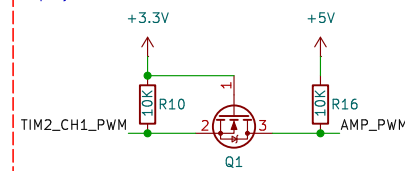
XC9288A33CER-G  
Step-Down Buck Switching Regulator  
Vin => 2.5V - 5.5V  
Vout => 3.3V  
Iout => 1.5A



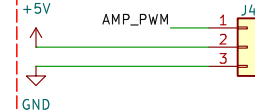
TPS610333DRRL  
Step-Up Boost Switching Regulator  
Vin => 1.8V - 5.5V  
FOR FIXED VOUT = 5V  
- FB CONNECTED TO VIN  
- PWM MODE ACTIVATED  
- NO RESISTOR DIVIDER NEEDED  
MODE : HIGH -> PWM MODE  
LOW -> PFM MODE



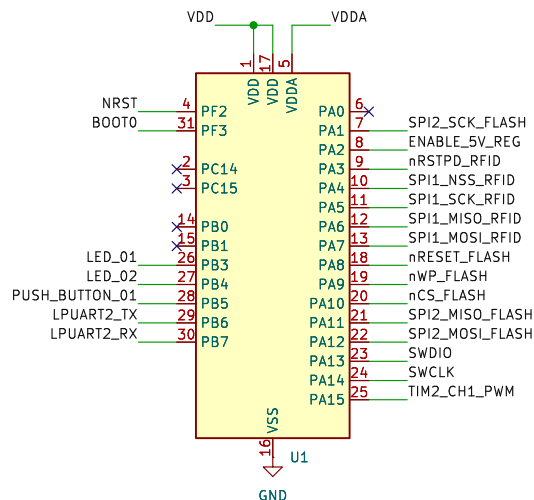
Level Converter  
3.3V -> 5.0V  
Amplify TIM2\_CH1\_PWM



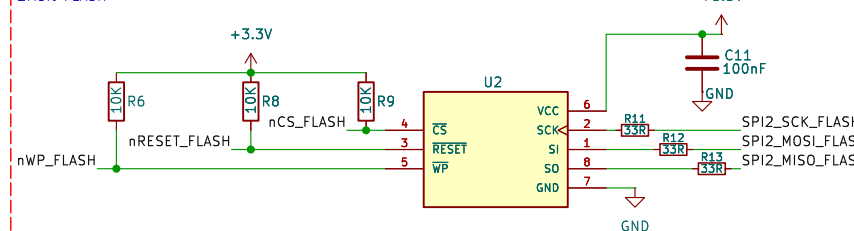
Servo Motor



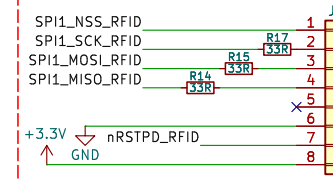
STM32U031K6Ux



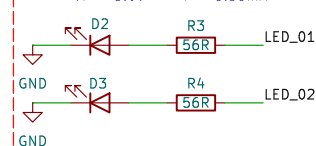
AT45DB021E-SHN-T  
2Mbit FLASH



RFID Module - MFRC522



LED's  
Usando R5 e R6 = 56ohm  
BLUE (D1) :  
- Vf = 2.9V -> I = 7.14mA  
GREEN (D2) :  
- Vf = 3.0V -> I = 5.35mA



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File: hw\_rfid.kicad\_sch

Title:

Size: A4 Date: 2025-03-28

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Rev:  
Id: 1/1