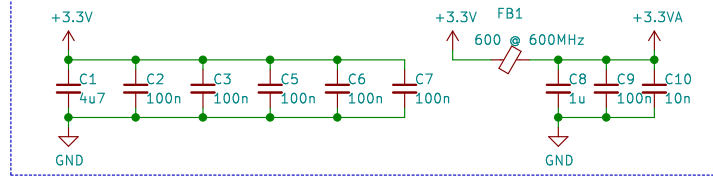
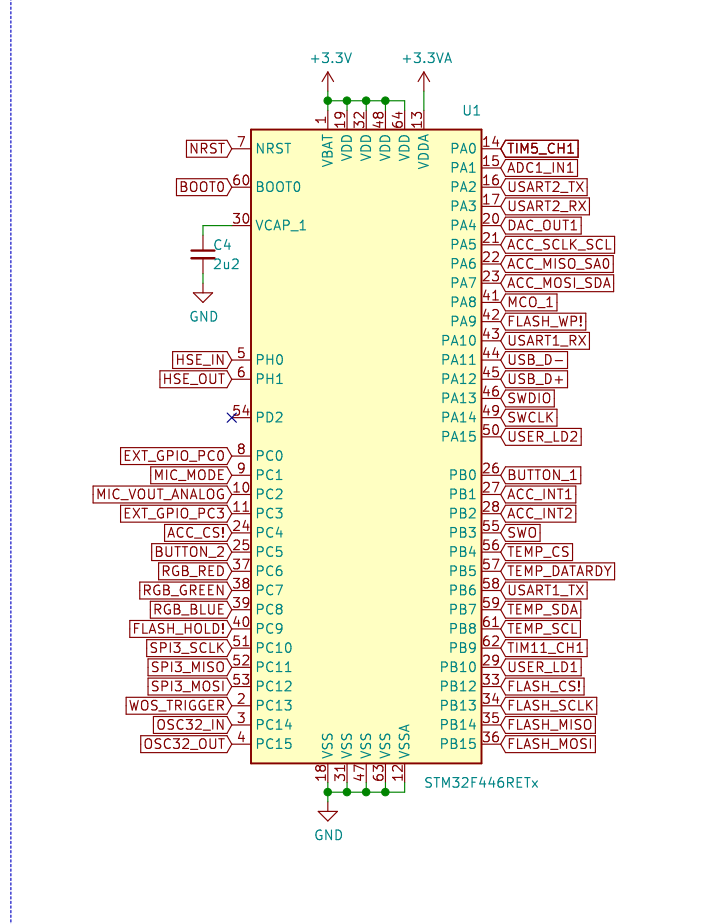


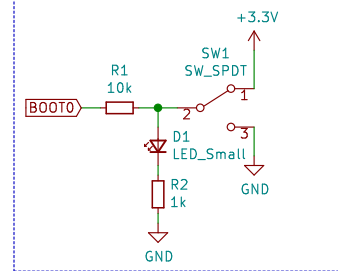
## DECOUPLING



## MCU



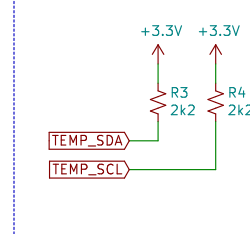
## BOOT



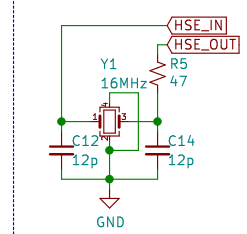
### TODO:

- EMC / Short circuit series resistors on connectors / peripherals
- X7R on all decoupling caps 0603 if possible 0805 on bulk
- 0805 resistor on current limiting 0603 / 0402 on rest.
- Research inductors and chokes + efuse
- Review MOSFET notes and calculate if vgs is enough to turn on fully and also look into protecting the GPIO

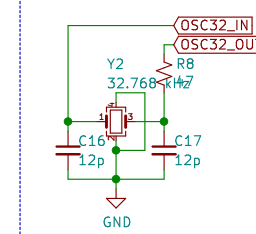
## I2C PULL UPS



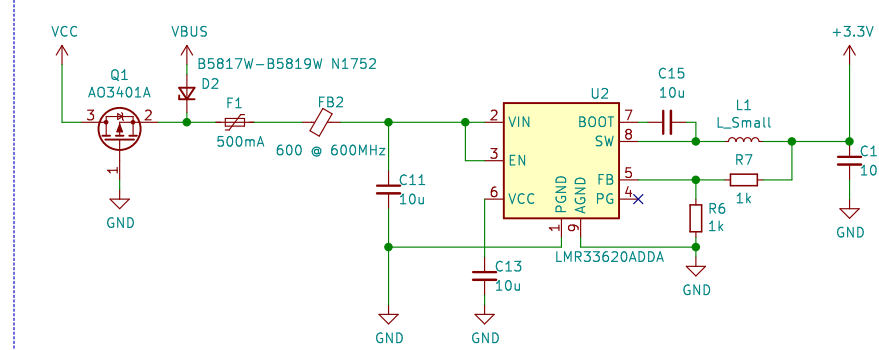
## HSE



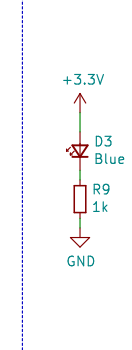
## RTC



## POWER



## PWR\_LED



Sheet: /  
File: playboard.sch

### Title:

Size: A4

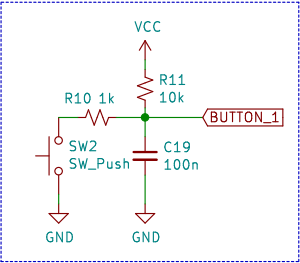
Date:

KiCad E.D.A. kicad (5.1.10)-1

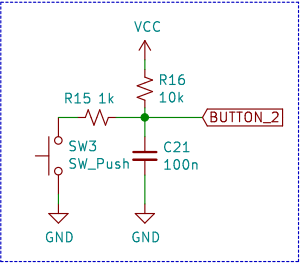
Rev:

Id: 1/4

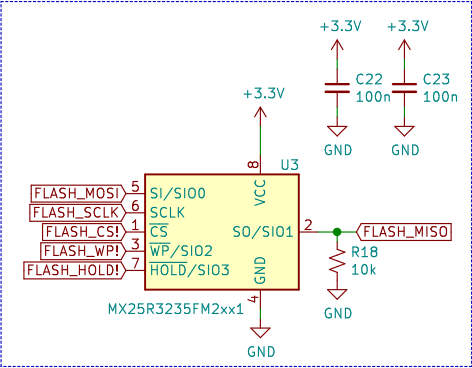
Push Button 1



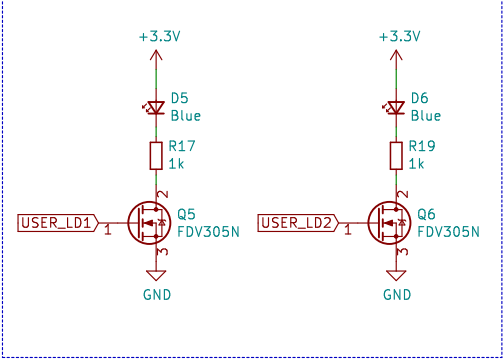
Push Button 2



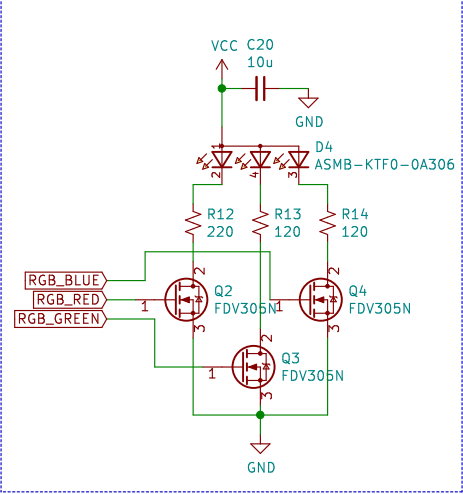
FLASH



USER\_LEDS



RGB



Sheet: /peripherals/  
File: peripherals.sch

**Title:**

Size: A4

Date:

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**Rev:**

Id: 2/4

