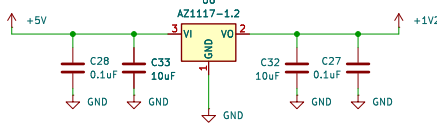
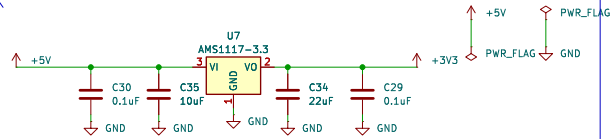
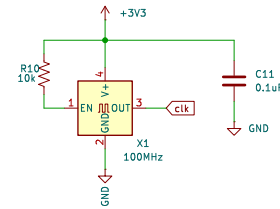


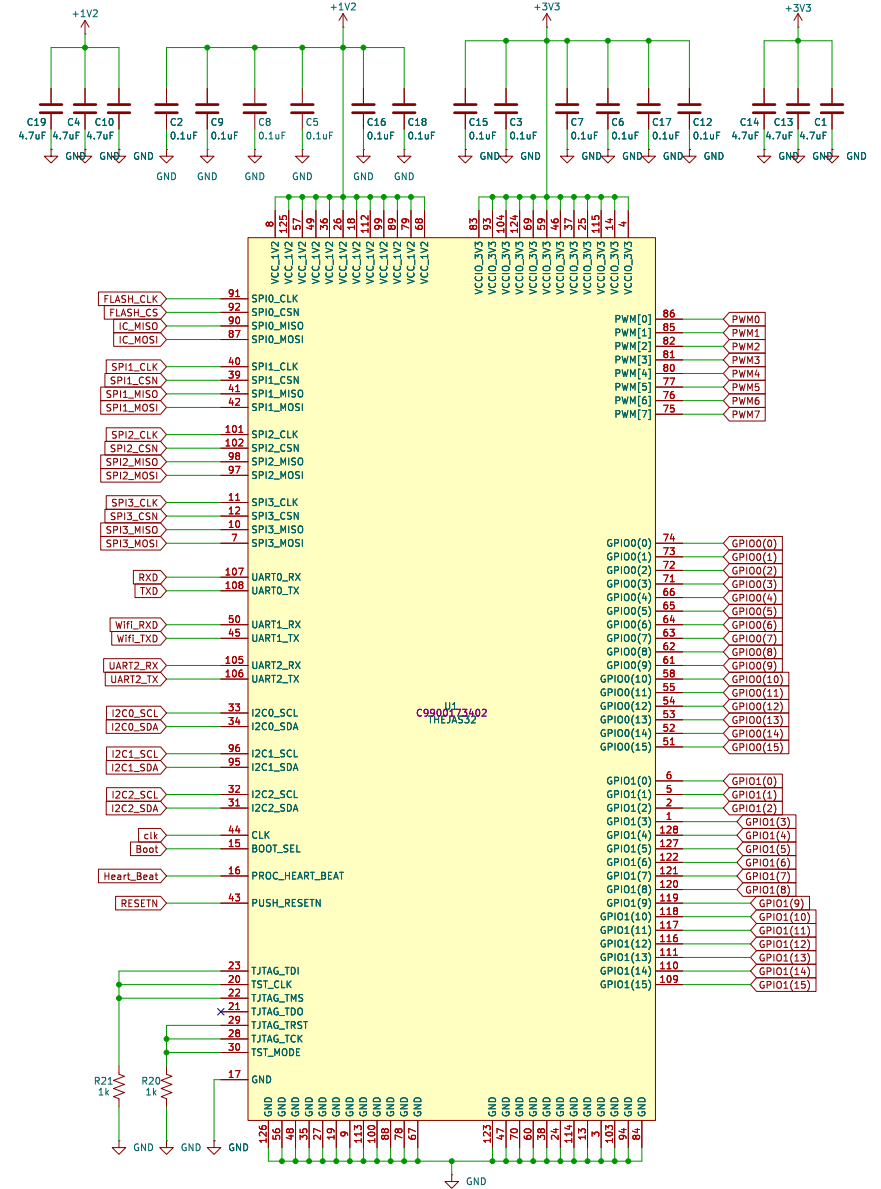
## POWER



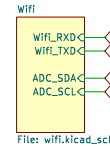
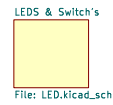
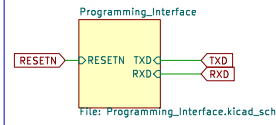
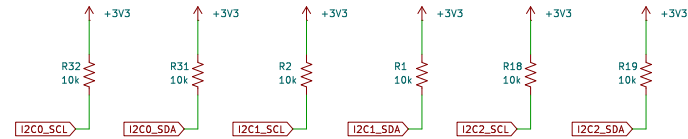
## Oscillator



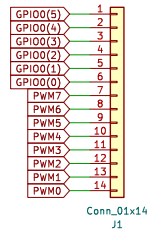
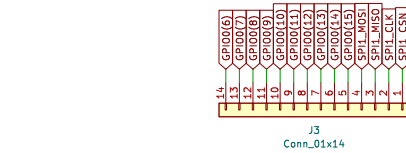
## Thejas32



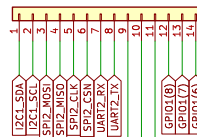
## I2C Pullups



## IO Header



Conn\_01x14 J2



Reviewed by: Yatharth Agarwal  
Designed by: Kaustubh Pandey

Sheet: /  
File: squadron\_ultra.kicad\_sch

**Title: VSDSquadron Ultra**

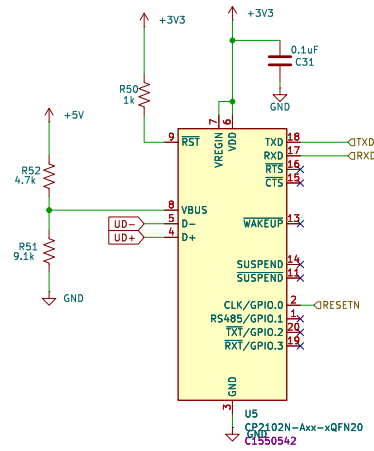
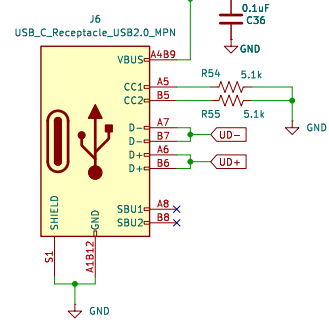
Size: A3 Date: 2025-02-28

KiCad E.D.A. 9.0.0

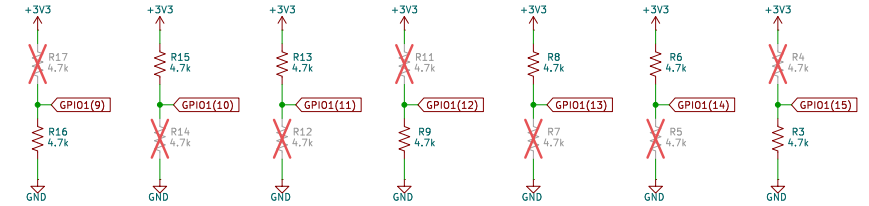
Rev: 1A  
Id: 1/4

## Programming Interface

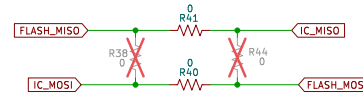
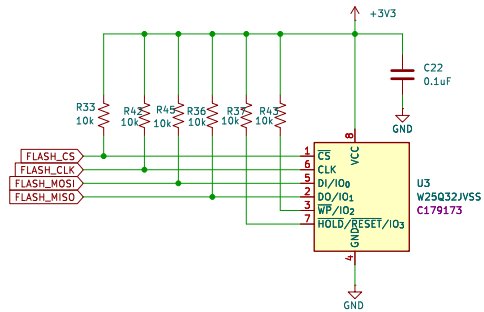
USB Module



## BAUD Rate Configuration



## Flash memory



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Designed by: Kaustubh Pandey

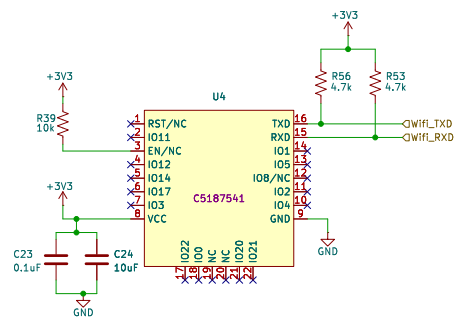
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**Title: VSDSquadron Ultra**

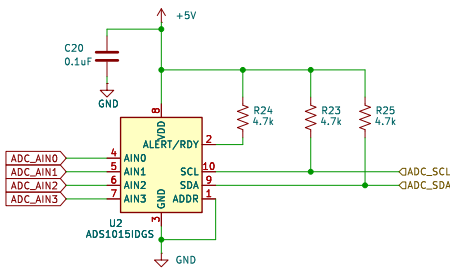
Size: A3 Date: 2025-02-28  
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Id: 2/4

Wi-Fi and BLE Module



ADC Module



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Designed by: Kaustubh Pandey

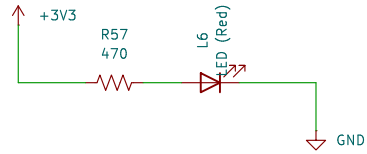
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**Title: VSDSquadron Ultra**

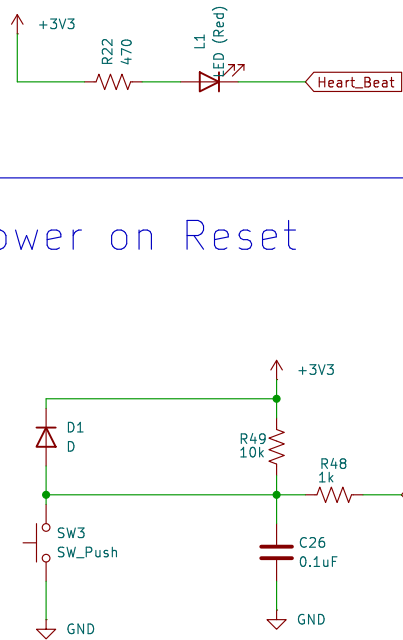
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Rev: 1A  
Id: 3/4

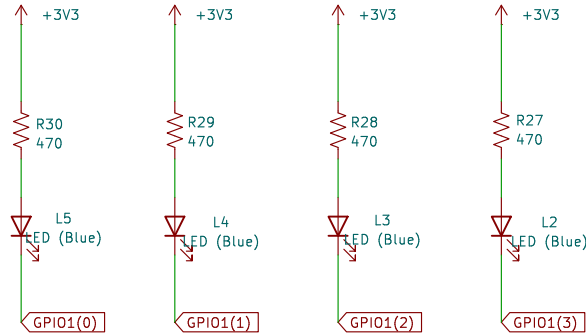
## POWER LED



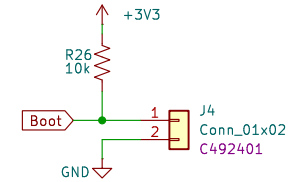
## Heart\_Beat LED



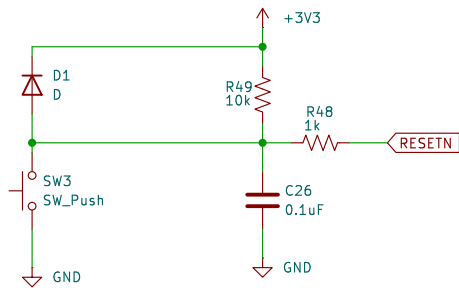
## USER GPIO LED



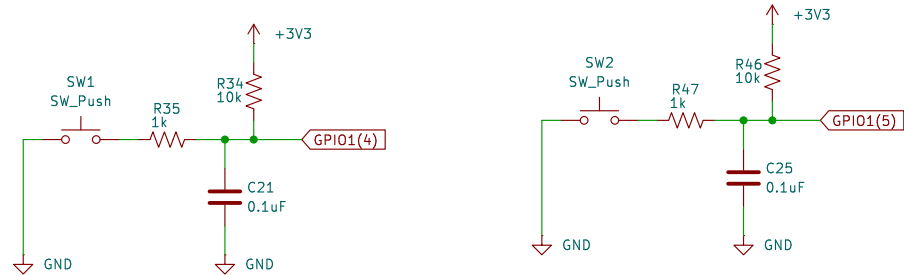
## Boot Select



## Power on Reset



## USER Push Button



Reviewed by: Yatharth Agarwal  
Designed by: Kaustubh Pandey

Sheet: /LEDS & Switch's/  
File: LED.kicad\_sch

**Title: VSDSquadron Ultra**

Size: A4 Date: 2025-02-28

KiCad E.D.A. 9.0.0

**Rev: 1A**

Id: 5/4