

<https://cone.codes>  
<https://github.com/miata-bot/can-link>

Connor Rigby

Sheet: /

File: RGB-controller.kicad\_sch

**Title: RGB Controller V5**

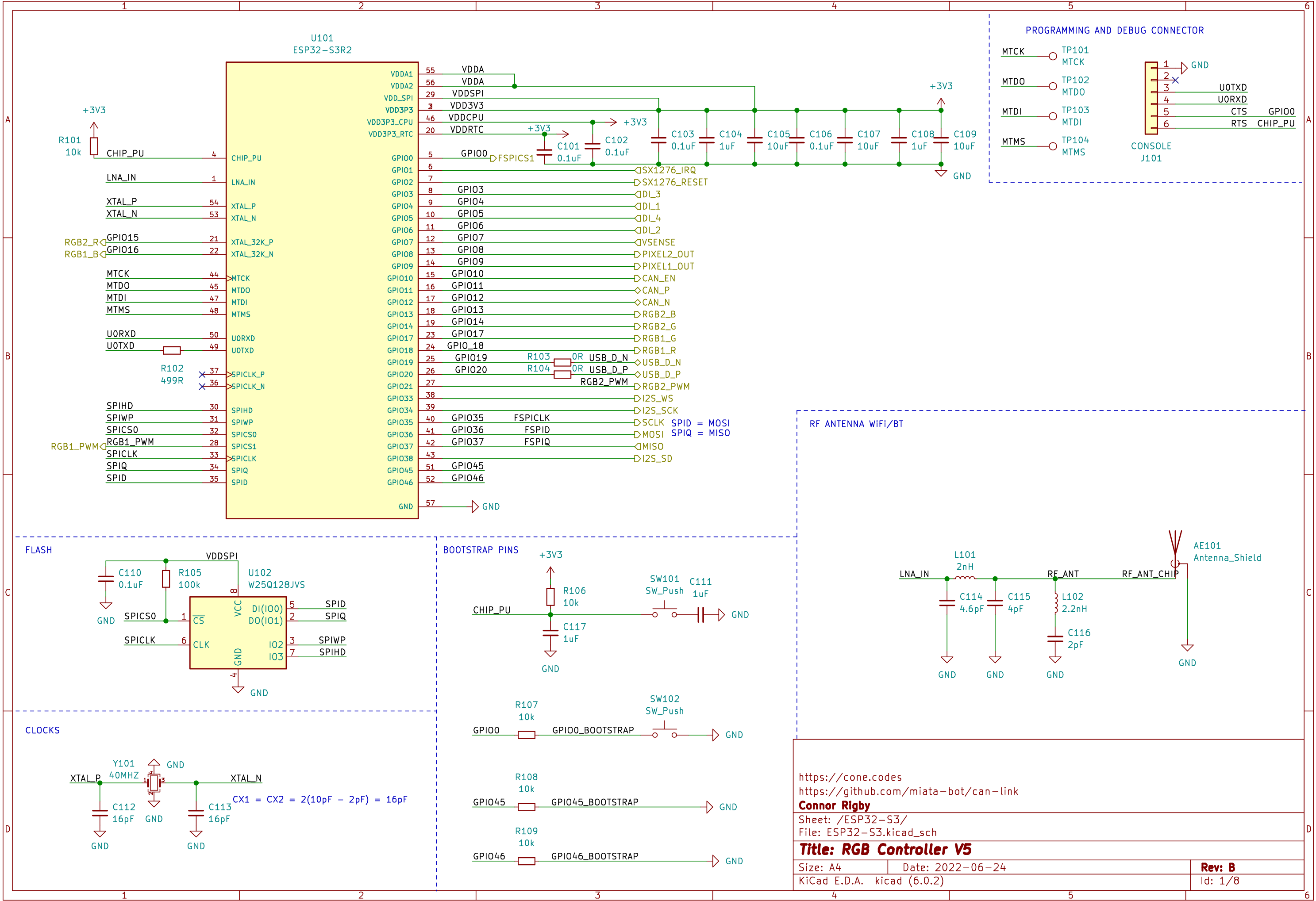
Size: A3

Date: 2022-06-24

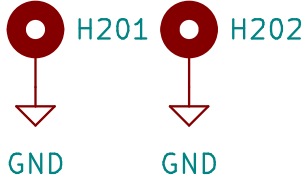
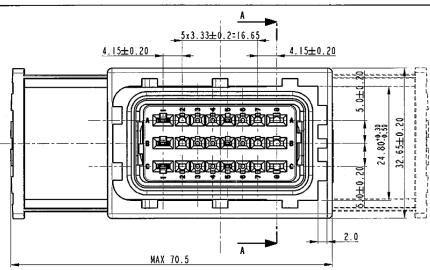
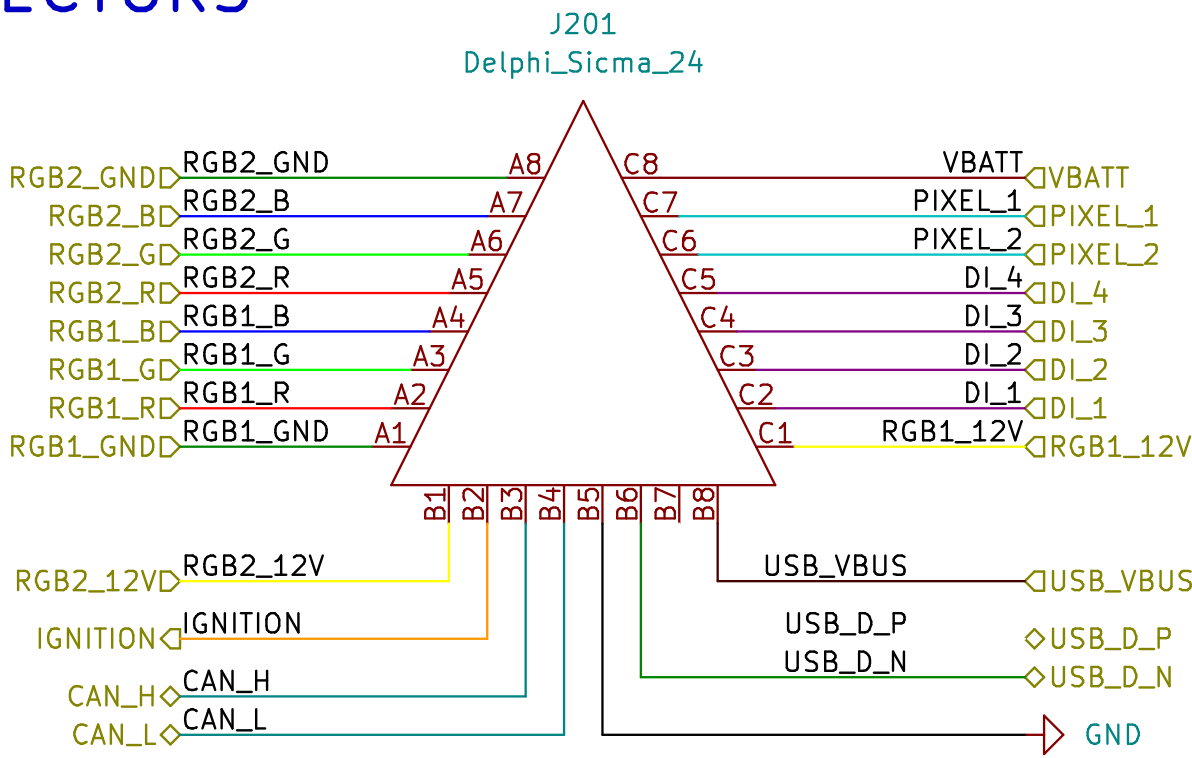
Rev: B

KiCad E.D.A. kicad (6.0.2)

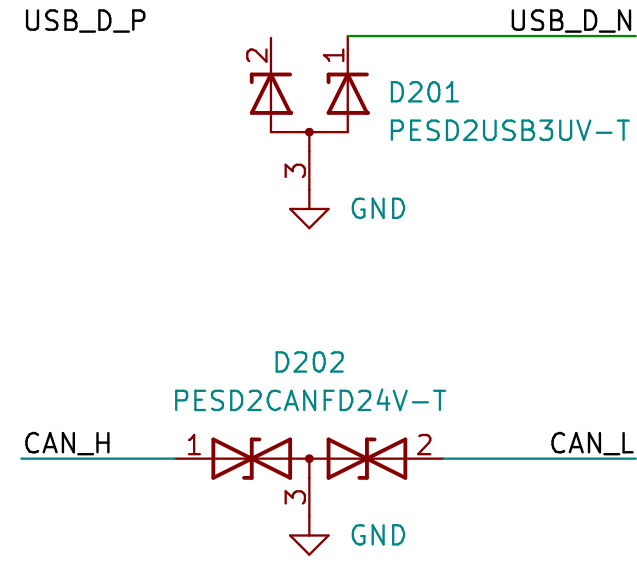
Id: 1/8



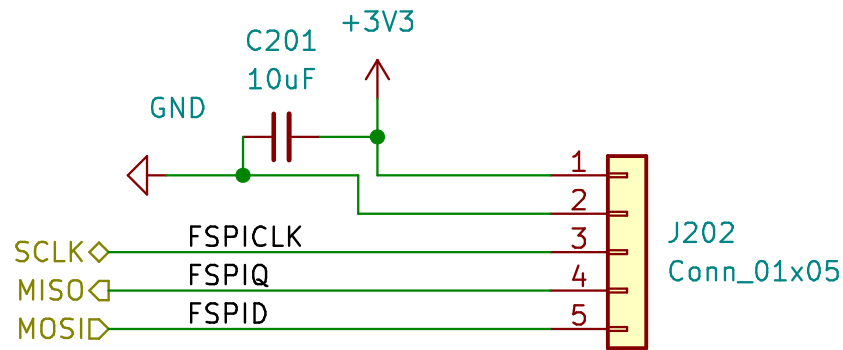
# CONNECTORS



# ESD



# DEBUG



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**Connor Rigby**

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

**Title: RGB Controller V5**

Size: A5	Date: 2022-06-24	Rev: B
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[illegible]

BATTERY SENSE

VBATT

R304  
36k

TP302  
VSENSE

VSENSE

R305  
10k

GND

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

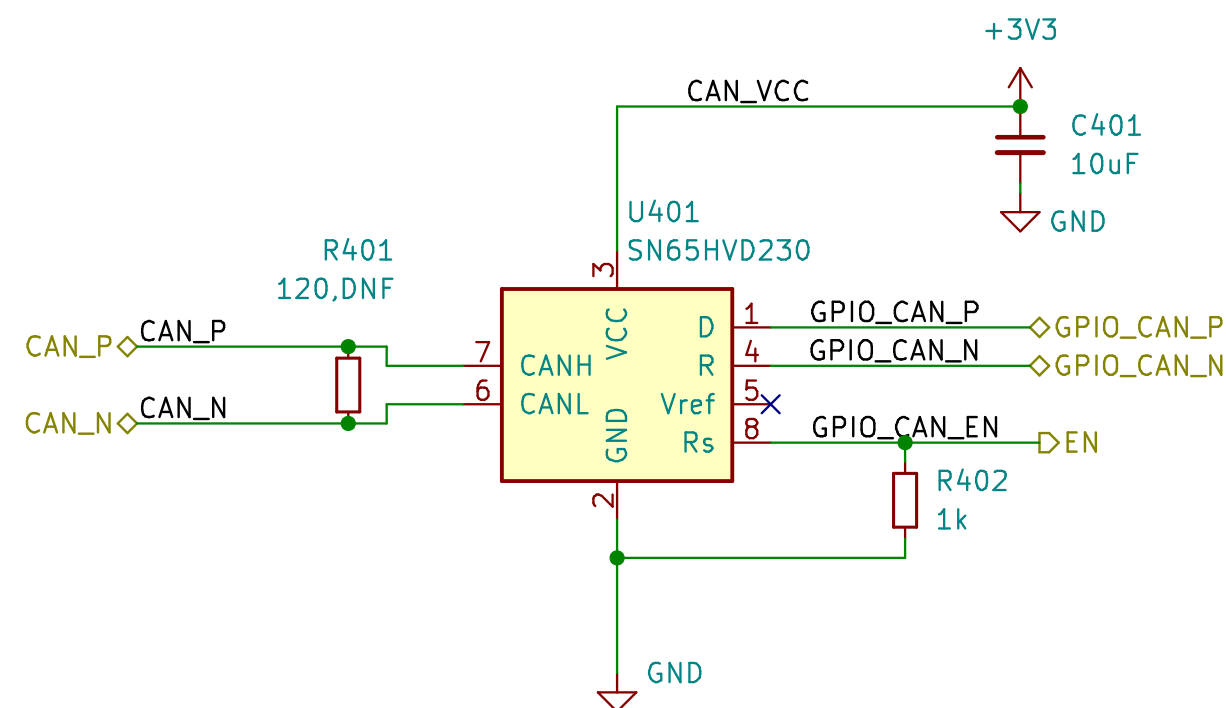
Size: A5	Date: 2022-06-24
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KiCad E.D.A. kicad (6.0.2)
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**Rev: B**

Id: 3/8

# CAN Transceiver



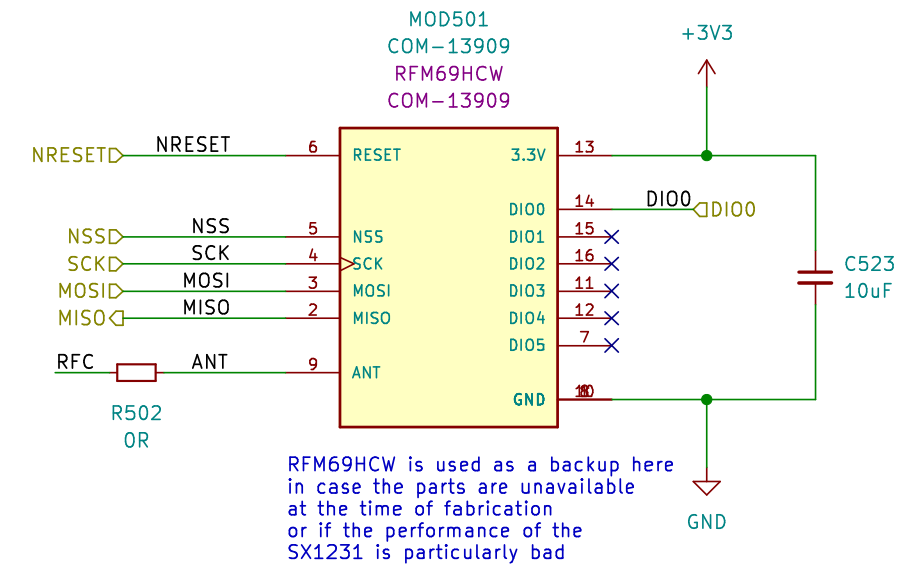
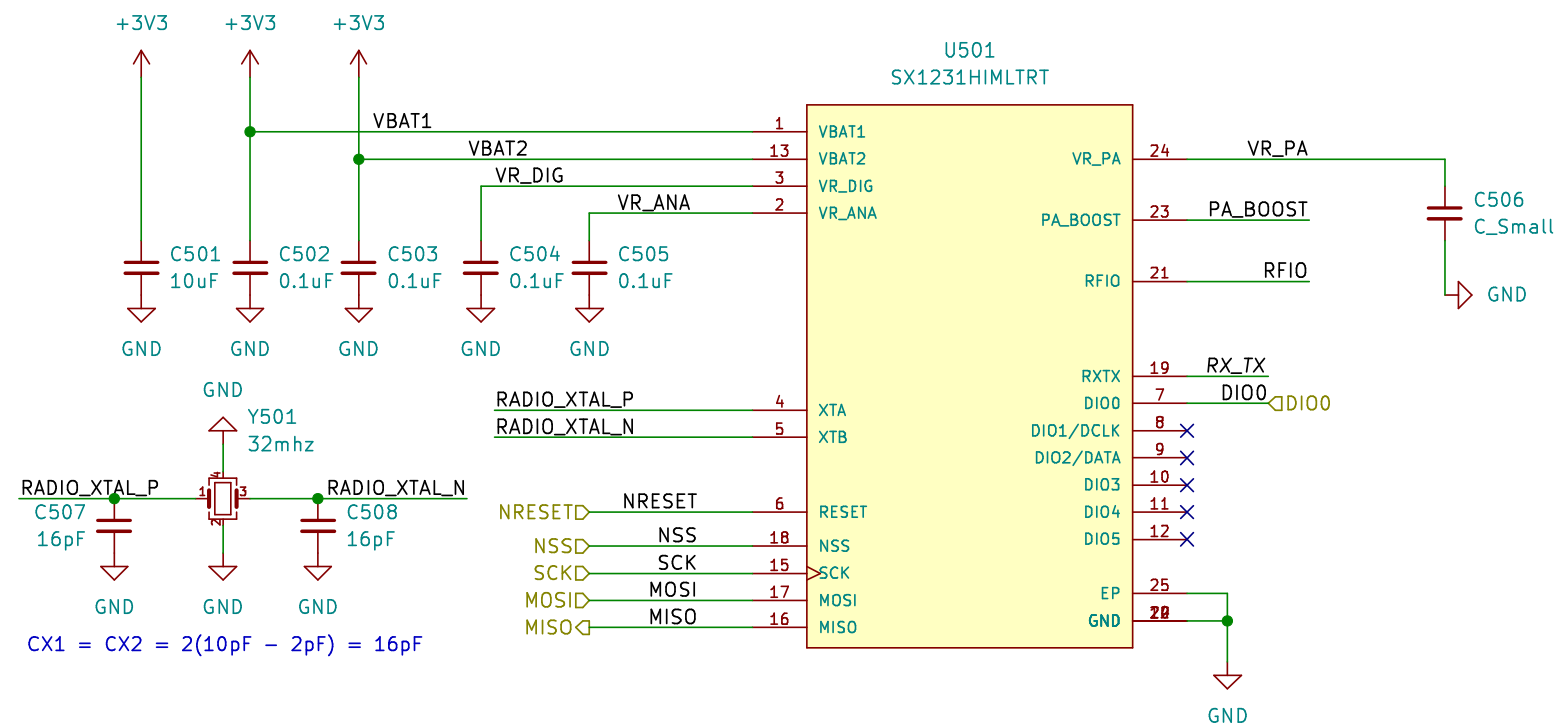
<https://cone.codes>  
<https://github.com/miata-bot/can-link>  
**Connor Rigby**

Sheet: /CAN-Bus/  
File: CAN-Bus.kicad\_sch

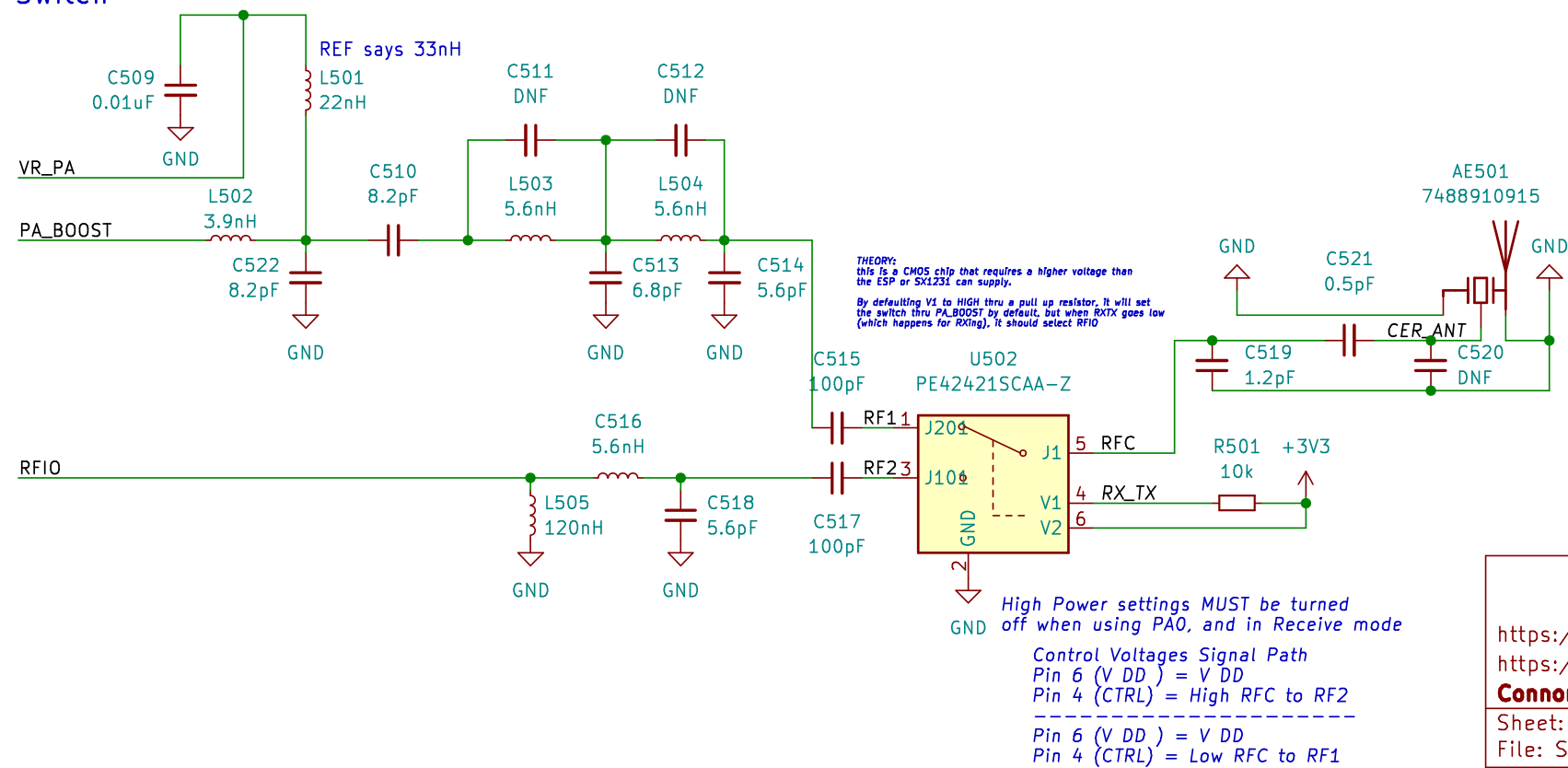
**Title: RGB Controller V5**

Size: A5	Date: 2022-06-24	<b>Rev: B</b>
KiCad E.D.A. kicad (6.0.2)		Id: 4/8

## Packet Radio



## Antenna Matching Network and RF Switch



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**Connor Rigby**

Sheet: /SX1231/  
File: SX1231.kicad\_sch

**Title: RGB Controller V5**

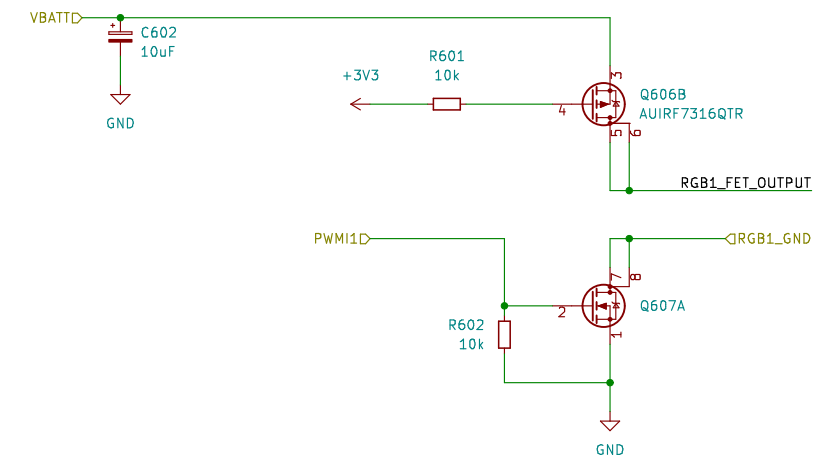
Size: A4	Date: 2022-06-24
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Size: 11	Date: 20
KiCad E.D.A.	kicad (6.0.2)

**Rev: B**

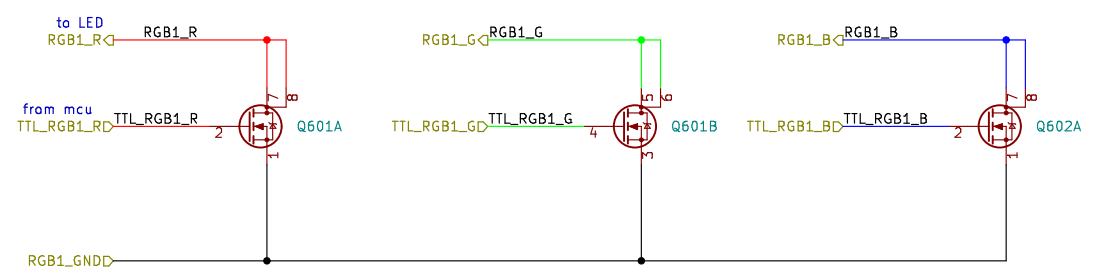
Id: 5/8

RGB PWM LED CONTROL

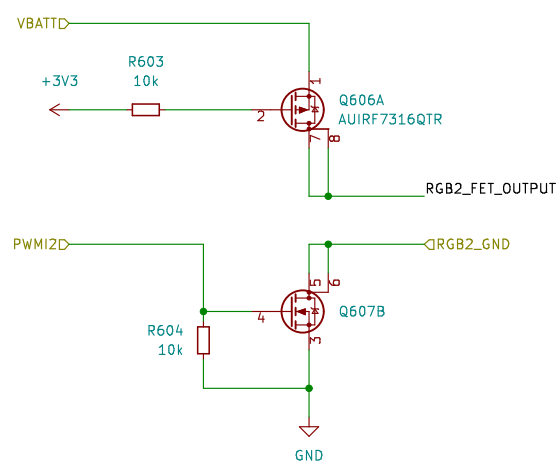


Channel #1 Voltage Output

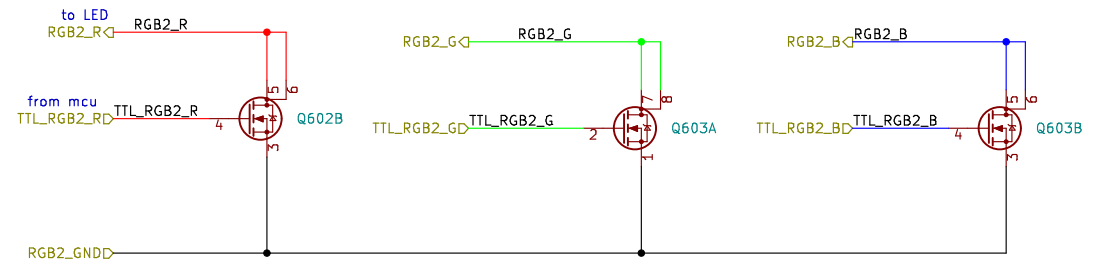
N-Channel low side Mosfets  
driven at TTL levels, drivers might be necessary



Channel #1 N-Channel Fet arrays

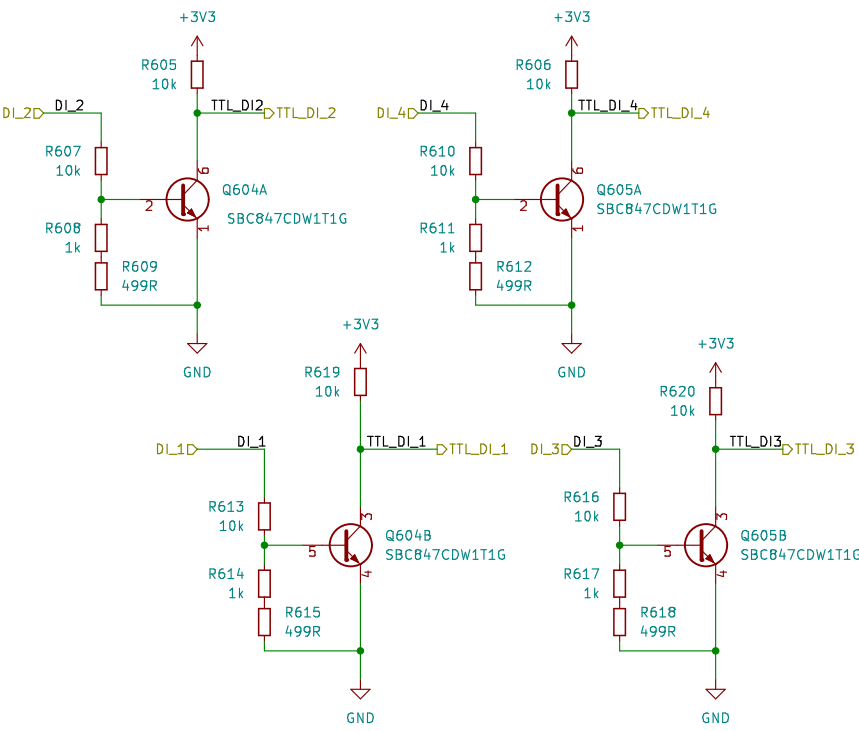


Channel #2 Voltage Output

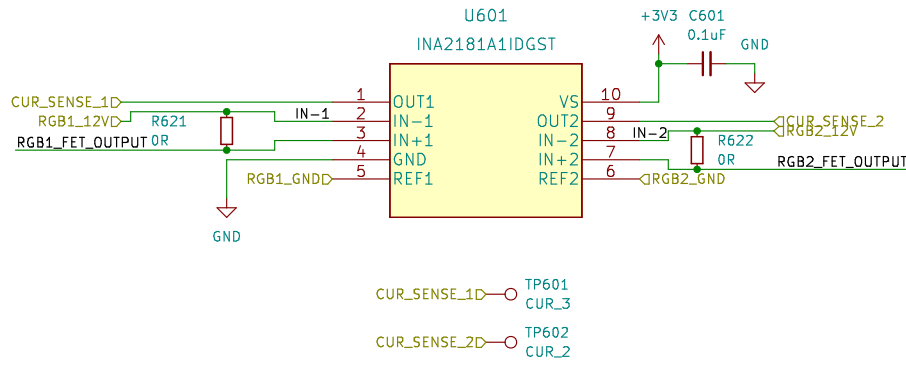


Channel #2 N-Channel Fet arrays

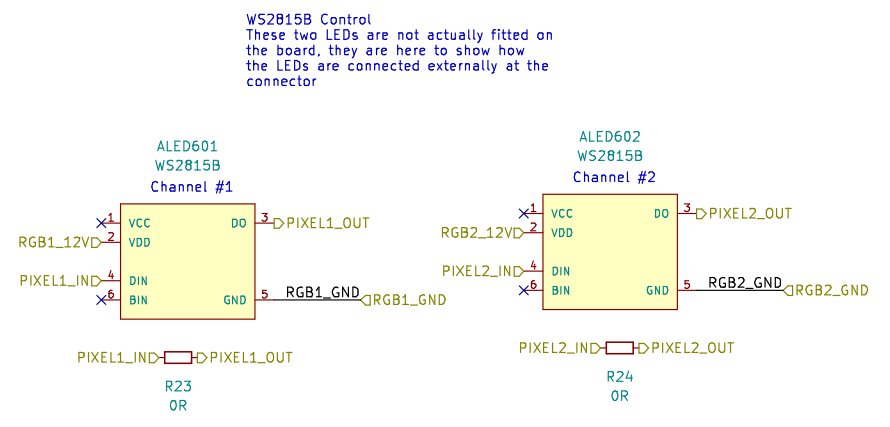
DIGITAL INPUT



CURRENT SENSE



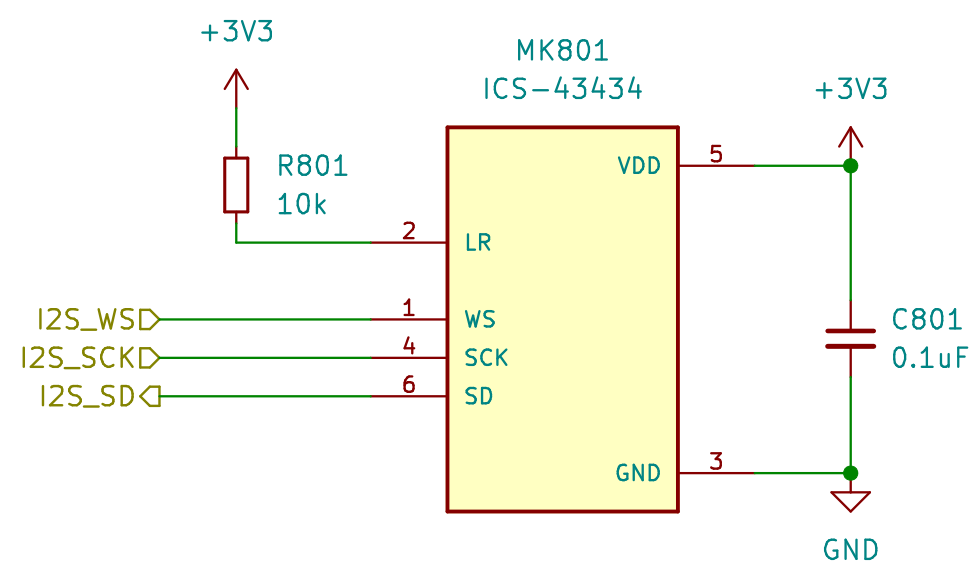
INDIVIDUALLY ADDRESSABLE LED CONTROL



WS2815B Control  
These two LEDs are not actually fitted on  
the board, they are here to show how  
the LEDs are connected externally at the  
connector

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**Connor Rigby**  
Sheet: /External-I0/  
File: External-I0.kicad\_sch

<b>Title: RGB Controller V5</b>		
Size: A3	Date: 2022-06-24	Rev: B
KiCad E.D.A. kicad (6.0.2)		
Id: 6/8		



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**Connor Rigby**

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

**Title: RGB Controller V5**

Size: A5 Date: 2022-06-24

**Rev: B**

KiCad E.D.A. kicad (6.0.2)

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