

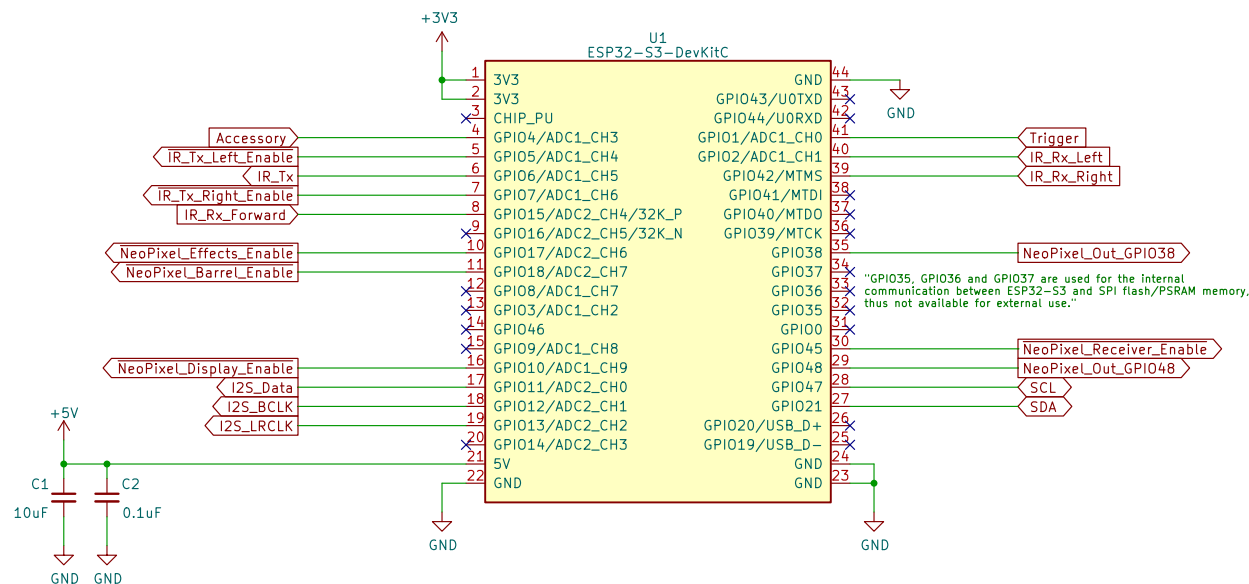
# 2024A

# 32ESpecial

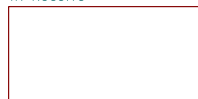
ESP32-S3-DevKitC-1 [link]

Hardware Git Repo [link]

Software Git Repo [link]

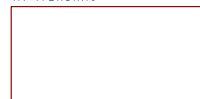


IR Receive



File: ir\_receive.kicad\_sch

IR Transmit



File: ir\_transmit.kicad\_sch

User Interface



File: user\_interface.kicad\_sch

Miscellaneous



File: miscellaneous.kicad\_sch

Z1  
KTag Logo

Z2  
KTag Logo

MH1  
No 4 Mounting Hole

Z3  
32ESpecial Logo

Z4  
32ESpecial Logo

MH2  
No 4 Mounting Hole

Z5  
2-Layer Marker

Z6  
Website QR Code

FID1  
Fiducial

FID2  
Fiducial

FID3  
Fiducial

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Club K

Sheet: /  
File: 2024A.kicad\_sch

**Title: KTag 2024A 32ESpecial**

Size: USLetter Date: 2025-01-25

KiCad E.D.A. 8.0.6

Rev: 2

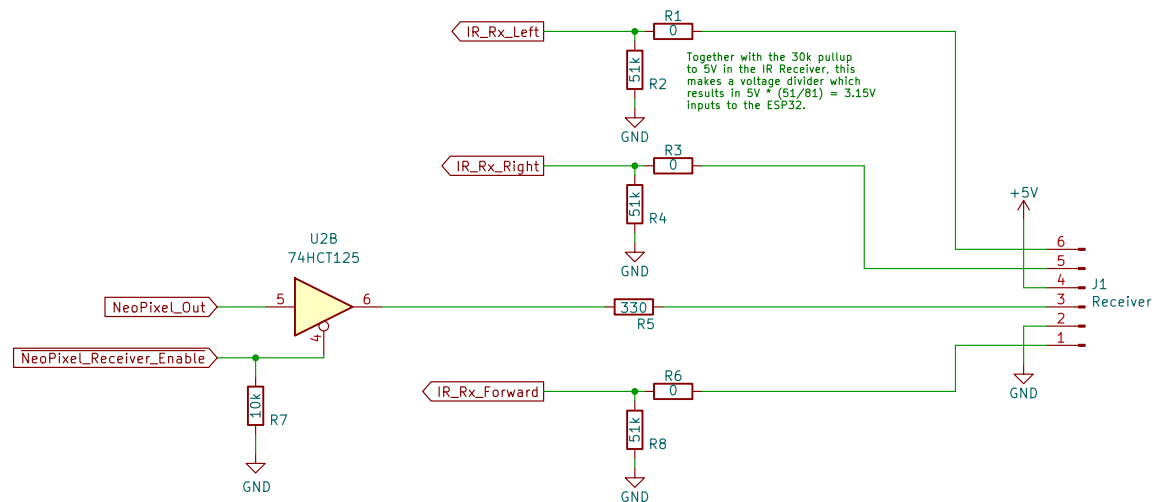
Id: 1/5



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# IR RECEIVE



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Sheet: /IR Receive/  
File: ir\_receive.kicad\_sch

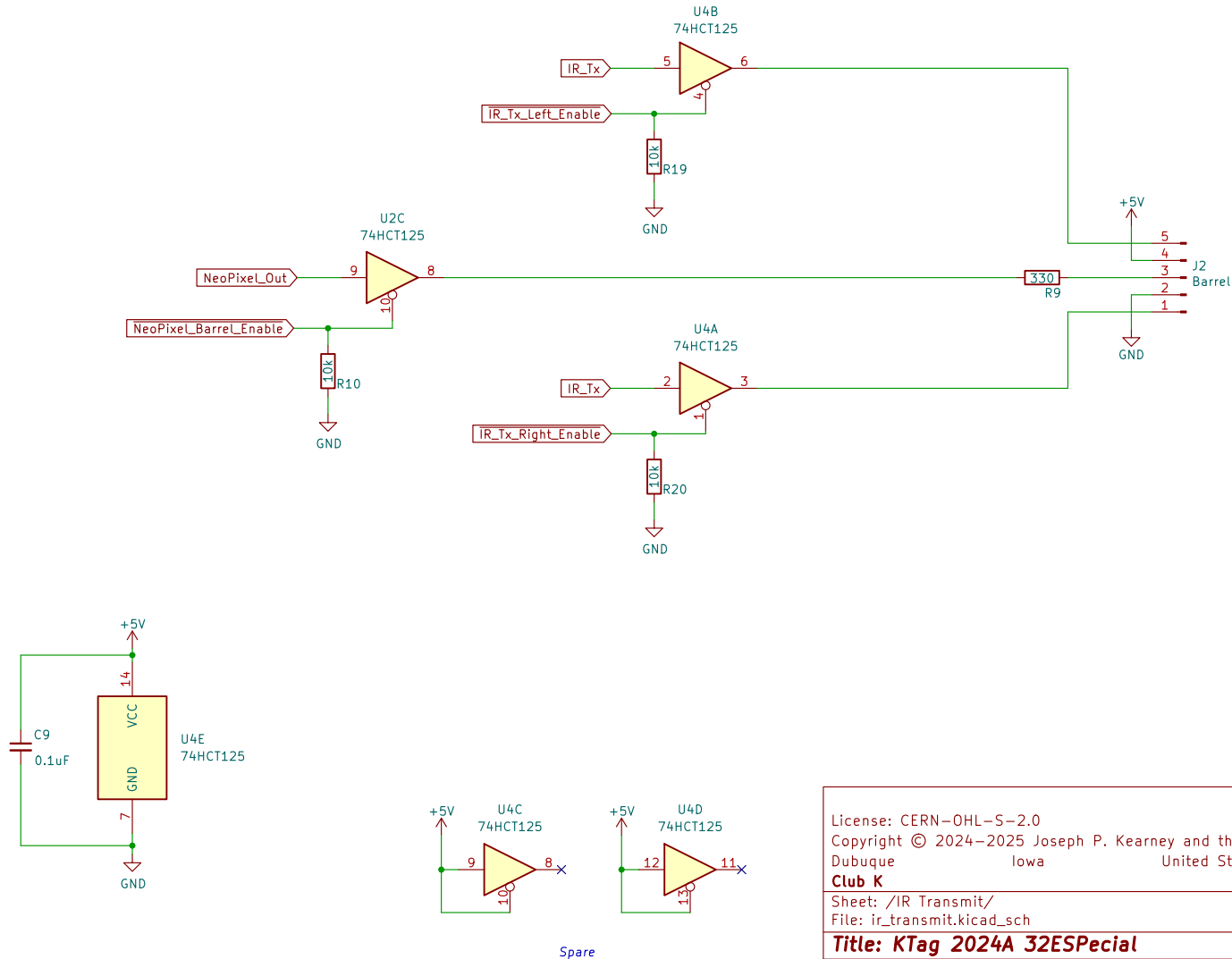
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Size: USLetter Date: 2025-01-25  
KiCad E.D.A. 8.0.6

Rev: 2  
Id: 2/5



# IR TRANSMIT



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Sheet: /IR Transmit/  
 File: ir\_transmit.kicad\_sch

**Title: KTag 2024A 32ESpecial**

Size: USLetter Date: 2025-01-25

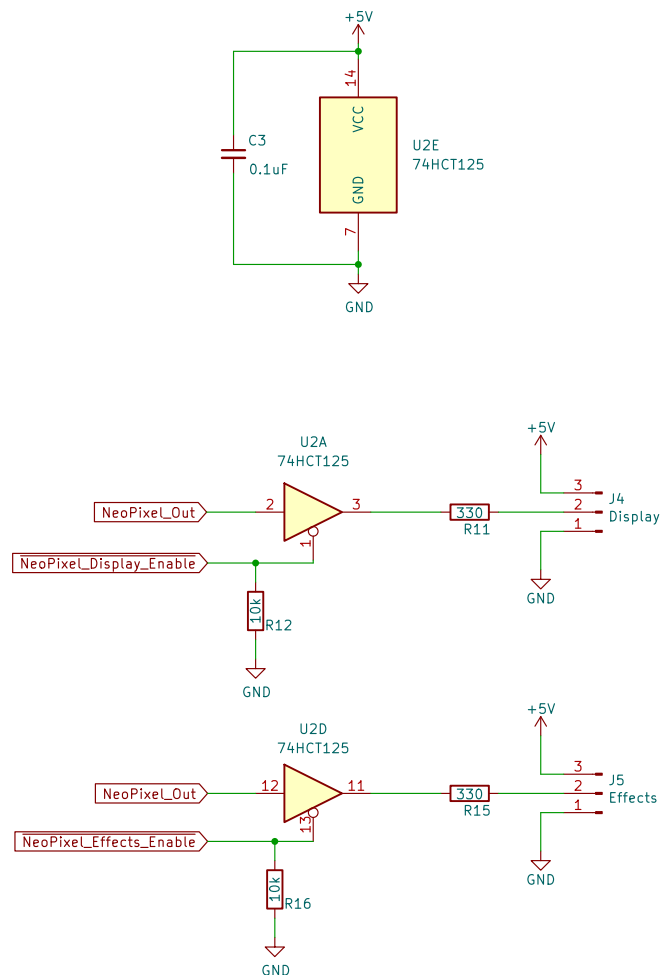
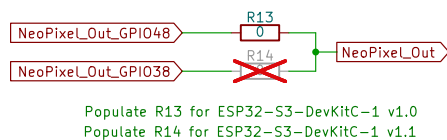
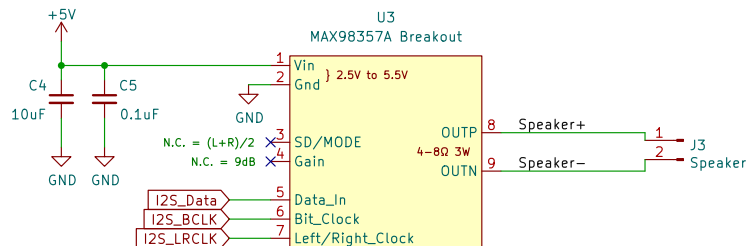
KiCad E.D.A. 8.0.6

Rev: 2

Id: 3/5



# USER INTERFACE



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Sheet: /User Interface/  
File: user\_interface.kicad\_sch

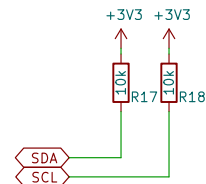
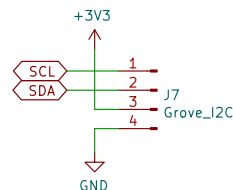
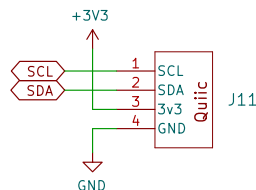
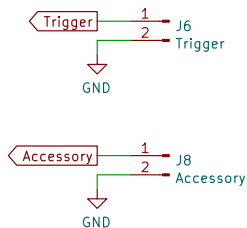
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Size: USLetter Date: 2025-01-25  
KiCad E.D.A. 8.0.6

Rev: 2  
Id: 4/5

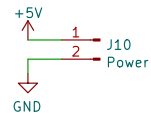
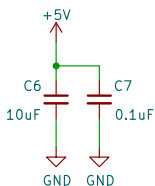
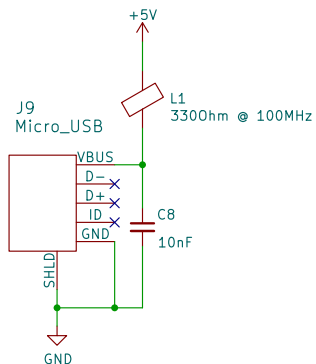


# MISCELLANEOUS



Qwiic I2C Expansion [link]

Grove I2C Expansion [link]



## USB Power Input

Use this connection to supply "true 5V" to the barrel when playing. For development/debugging, use the USB connector on the ESP32 DevKit daughter board.

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Sheet: /Miscellaneous/  
File: miscellaneous.kicad\_sch

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Rev: 2

Id: 5/5

