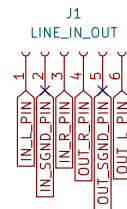
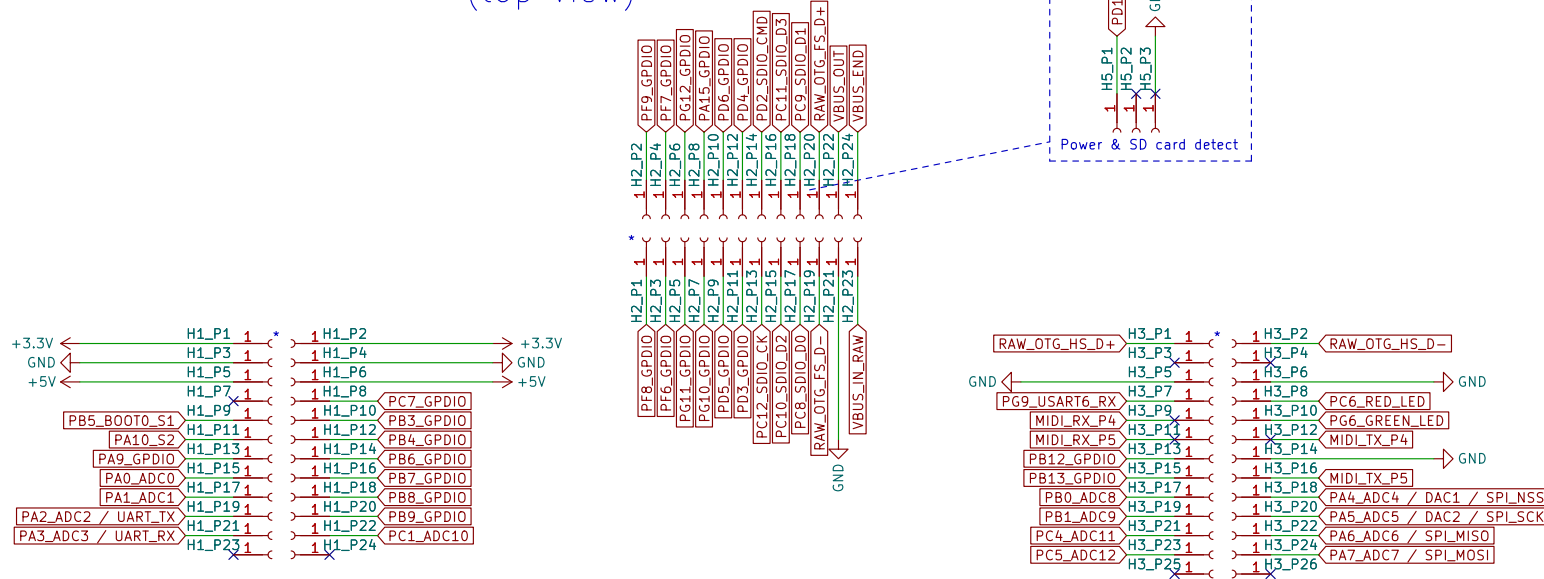


# Ksoloti Core v0.4+ headers (top view)



2 audio inputs, 2 audio outputs, Eurorack level

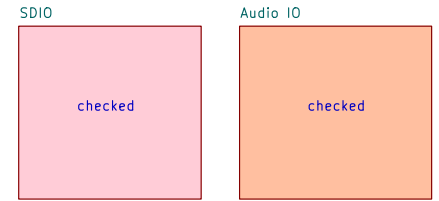
8 pots  
4 CV inputs (P1–P4) are summed with pots 1–4  
4 independent CV inputs (A–D), non-trimmable (+/–5V)  
2 independent CV inputs (X, Y), trimmable V/oct (+/–5V or 0..10V via jumper)

2 buttons (S3, S4)  
2 encoders with switch (E1, E2)

4 fadable duo-color LEDs, 2 Axo status LEDs

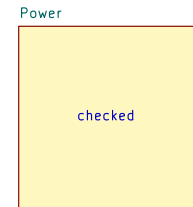
2 gate outputs, ca. 10.3V  
2 CV outputs, trimmable V/oct (+/–5V or 0..10V via jumper)

1 OLED display, 128x64px

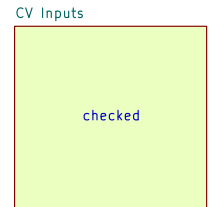


File: sdio.kicad\_sch

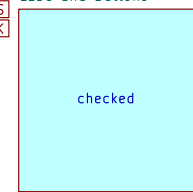
File: audio\_io.kicad\_sch



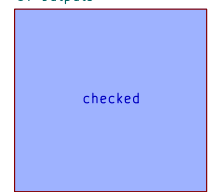
File: power.kicad\_sch  
LEDs and Buttons



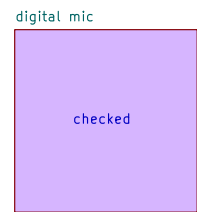
File: cv\_in.kicad\_sch  
CV outputs



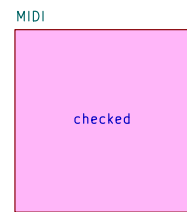
File: led\_out.kicad\_sch



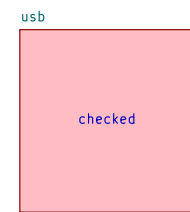
File: cv\_out.kicad\_sch



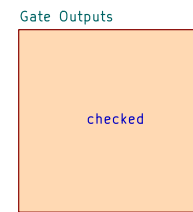
File: digital\_mic.kicad\_sch



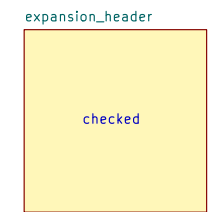
File: midi.kicad\_sch



File: usb.kicad\_sch



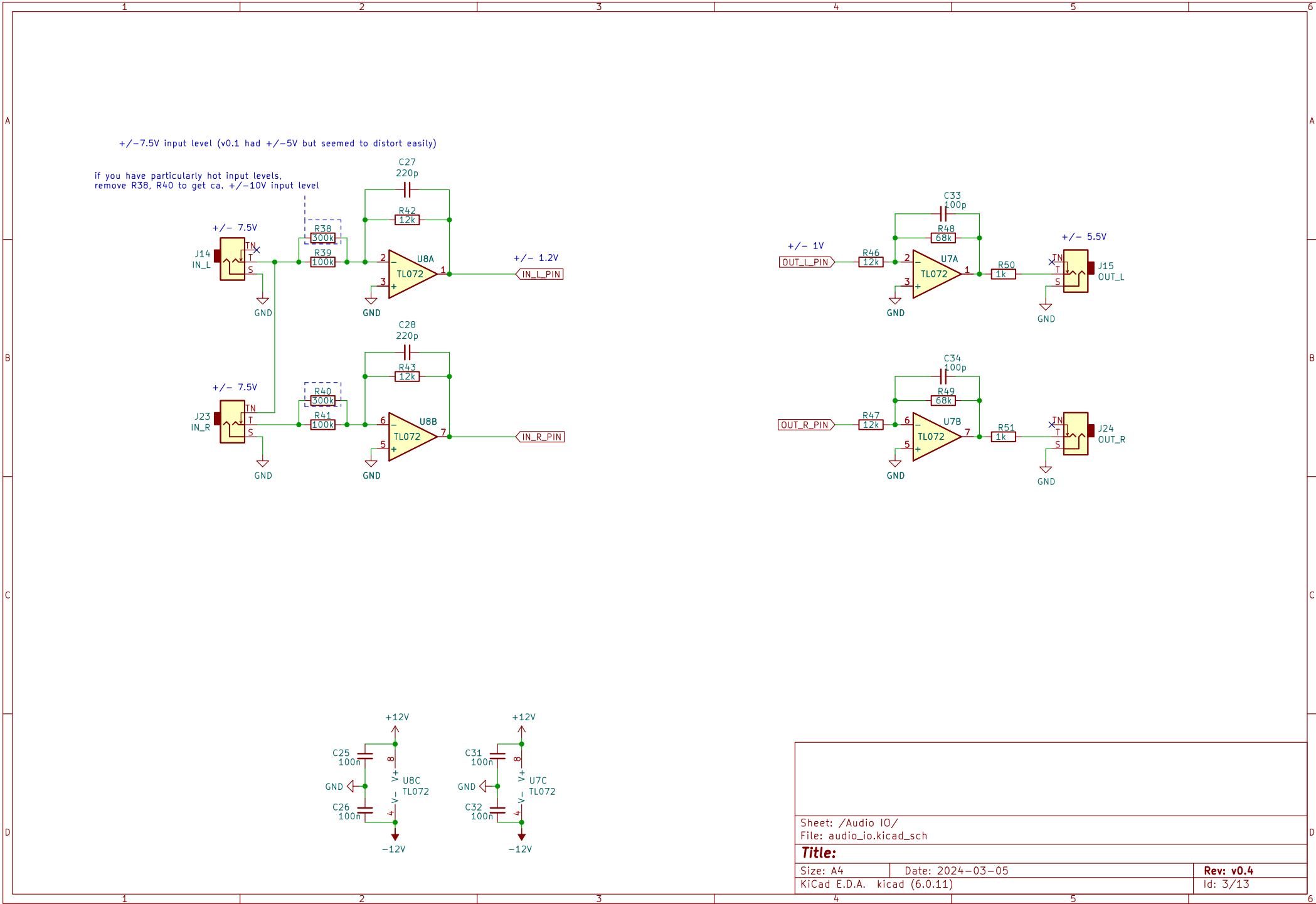
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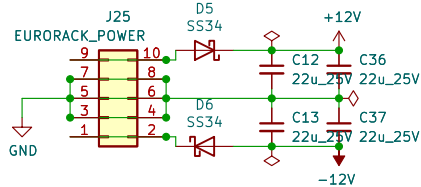


File: untitled.kicad\_sch

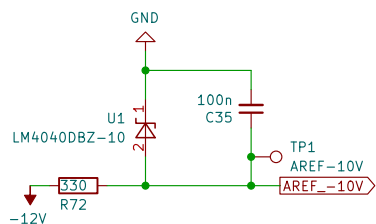
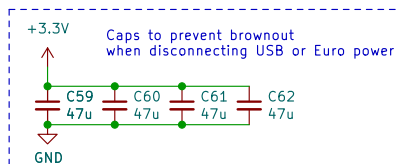
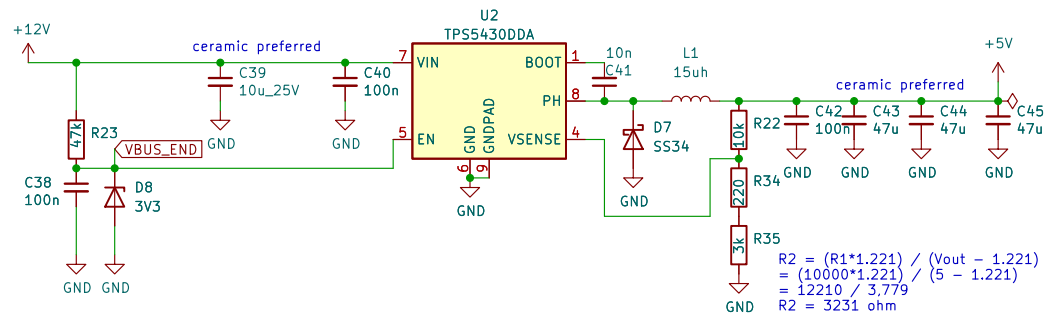
changelog		
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File: ksoloti_modelOrg.kicad_sch		
Title:		
Size: A4	Date: 2024-02-06	Rev: v0.4
KiCad E.D.A. kicad (6.0.11)	Id: 1/13	







## DC to 5V



+3.3V

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

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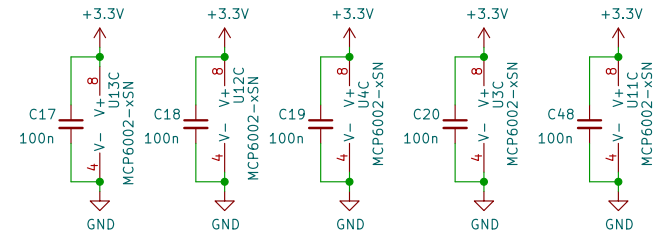
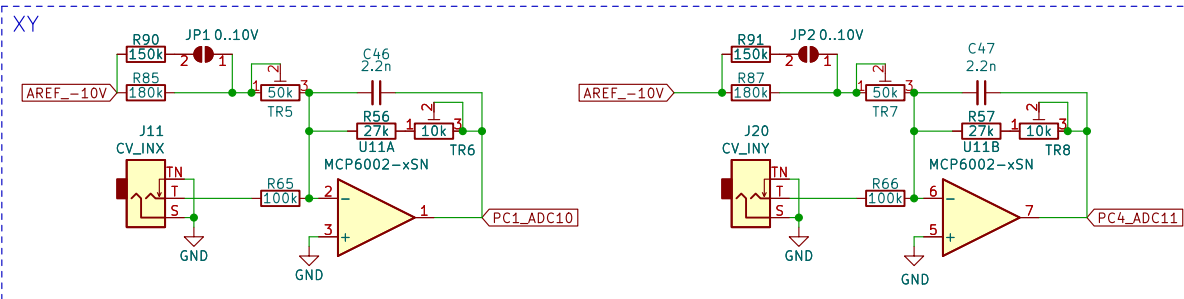
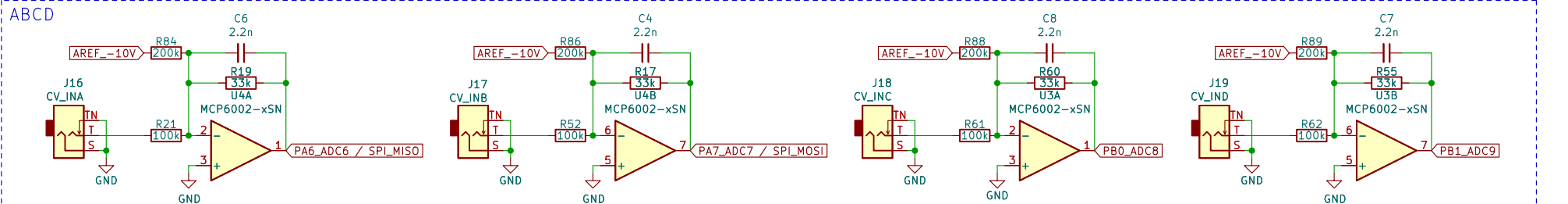
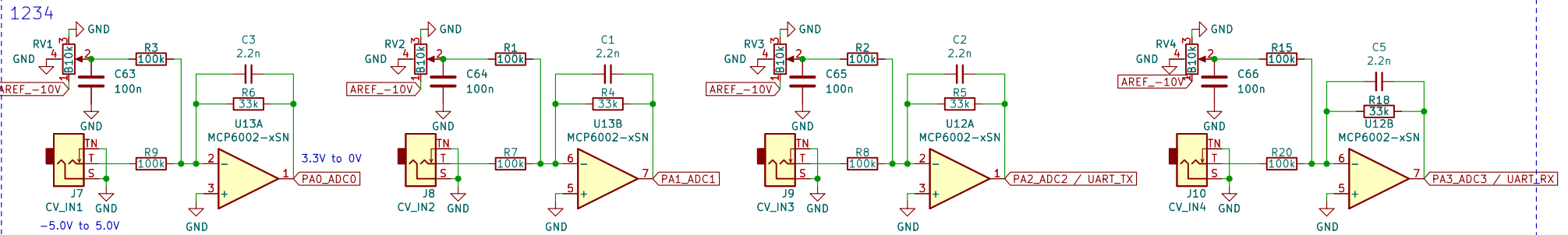
Size: A4  
KiCad E.D.A. kicad (6.0.11)

Date:

Rev: v0.4

Id: 4/13

## Pots / CV inputs



Sheet: /CV Inputs/  
File: cv\_in.kicad\_sch

**Title:**

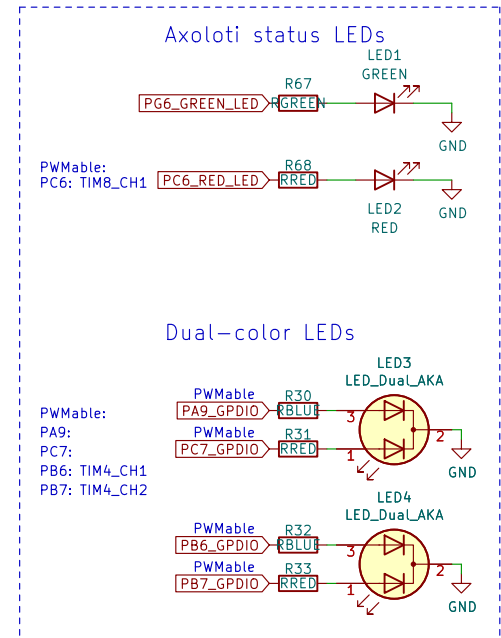
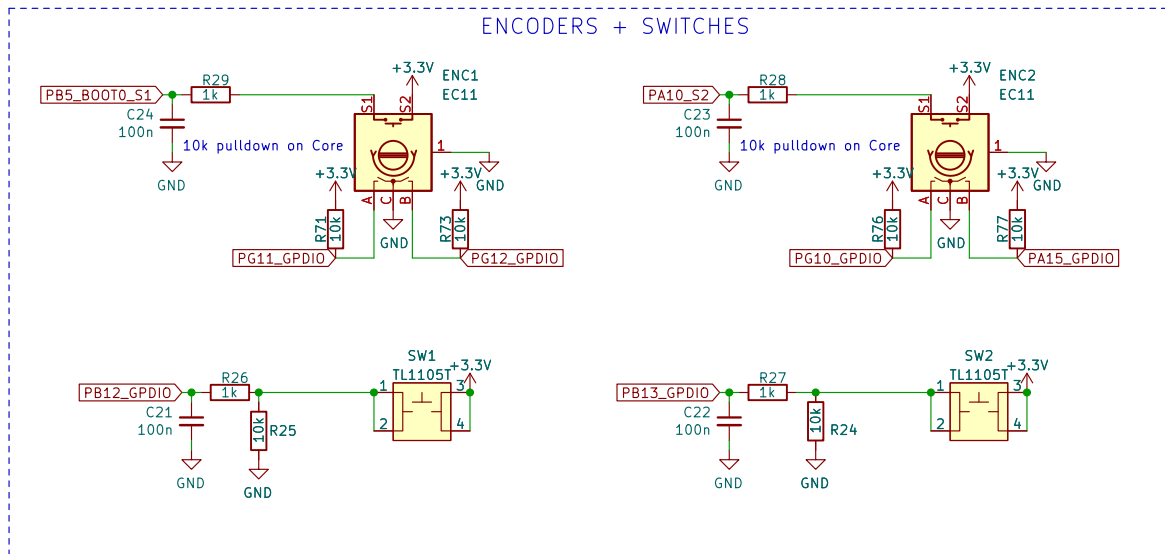
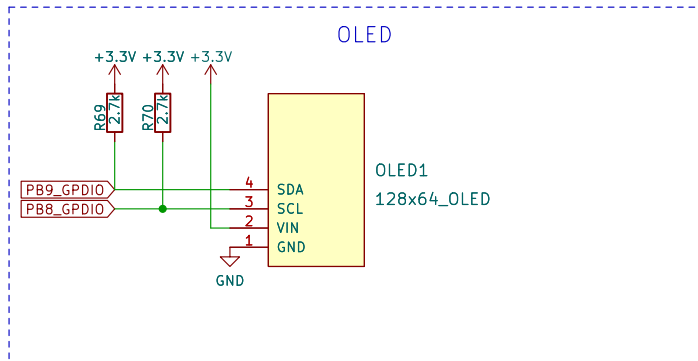
Size: A4

Date:

KiCad E.D.A. kicad (6.0.11)

**Rev: v0.4**

Id: 5/13



Sheet: /LEDs and Buttons/  
File: led\_out.kicad\_sch

**Title:**

Size: A4  
KiCad E.D.A. kicad (6.0.11)

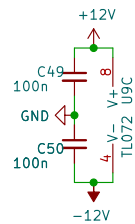
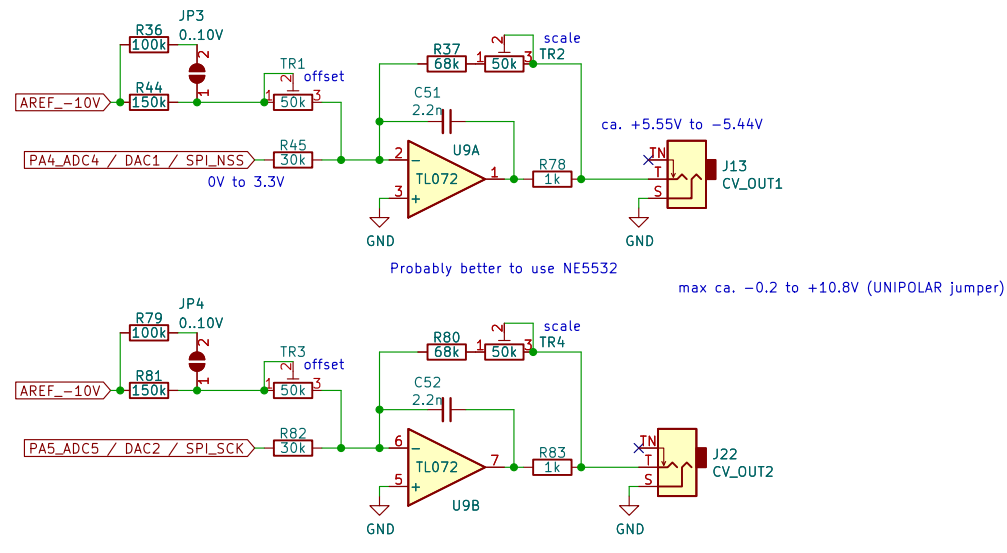
Date:

**Rev: v0.4**

Id: 6/13

# CV outputs

## SIGNAL SCALE/OFFSET



Sheet: /CV outputs/  
File: cv\_out.kicad\_sch

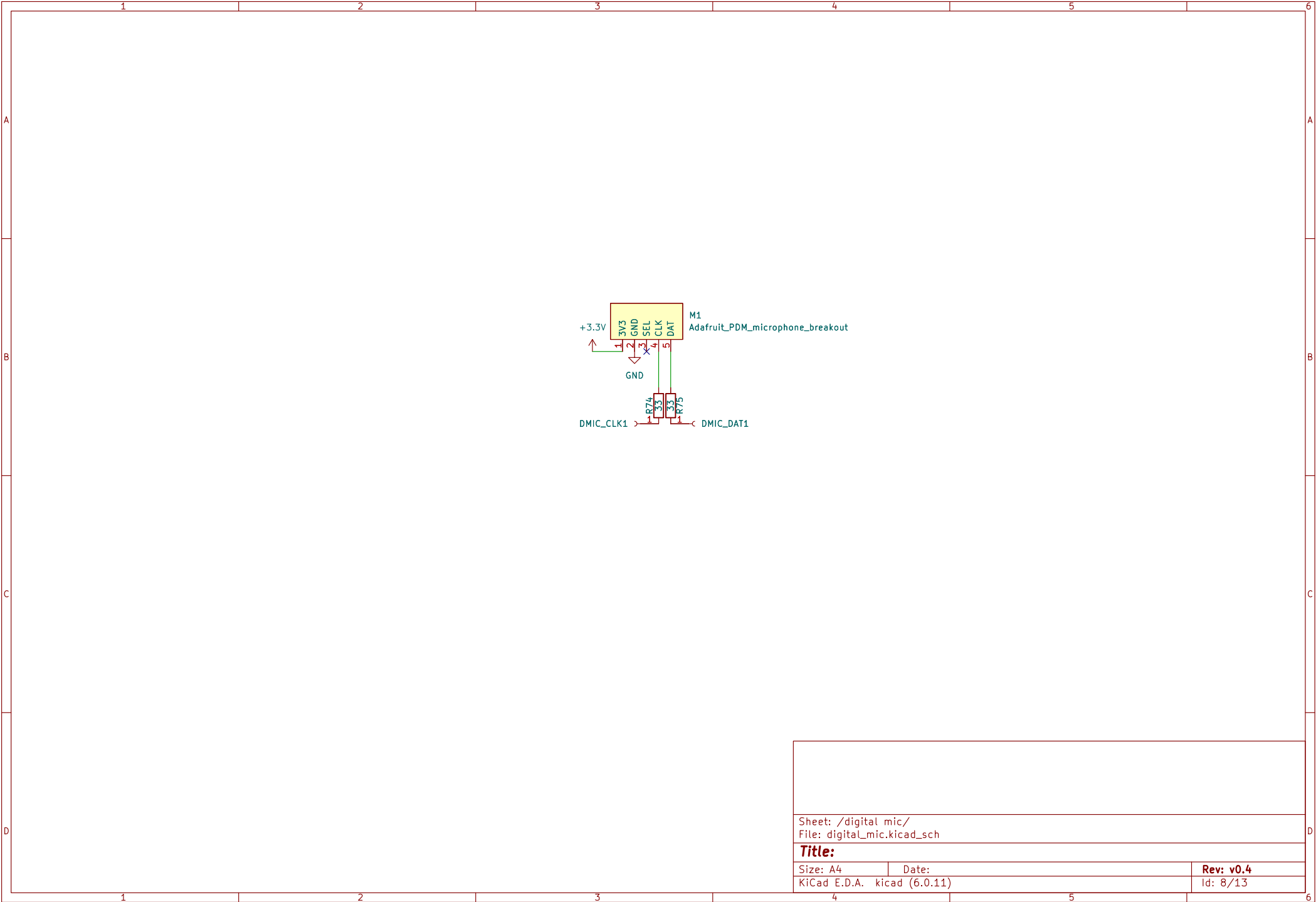
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Size: A4  
KiCad E.D.A. kicad (6.0.11)

Date:

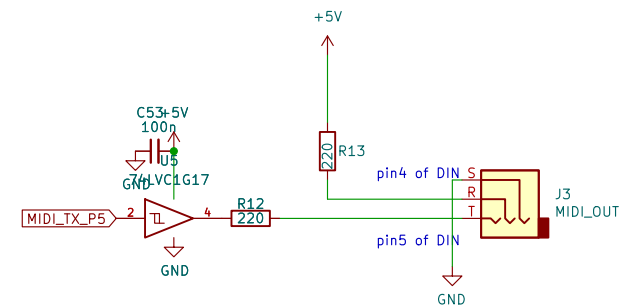
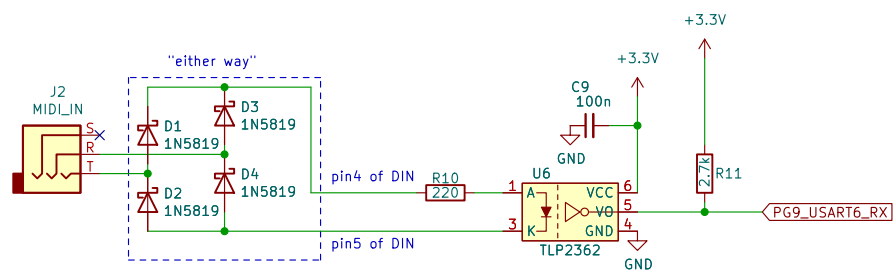
Rev: v0.4

Id: 7/13



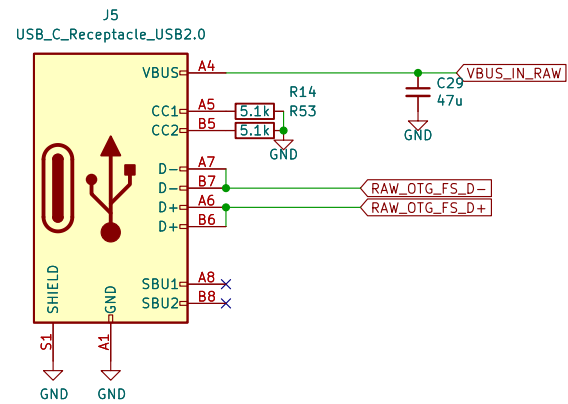
Sheet: /digital mic/ File: digital_mic.kicad_sch		
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Size: A4	Date:	Rev: v0.4
KiCad E.D.A. kicad (6.0.11)		Id: 8/13



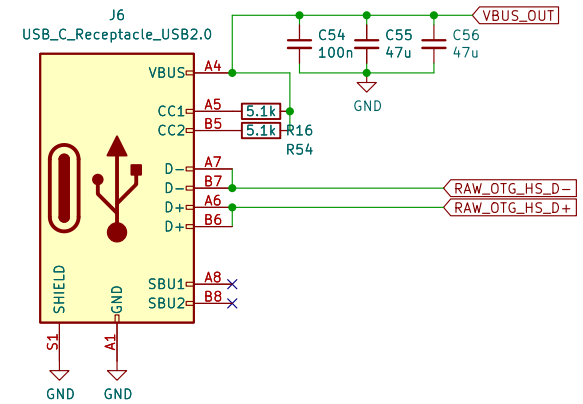


Sheet: /MIDI/		
File: midi.kicad_sch		
<b>Title:</b>		
Size: A4	Date:	Rev: v0.4
KiCad E.D.A. kicad (6.0.11)		Id: 9/13

## USB PROGRAMMER



## USB HOST



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

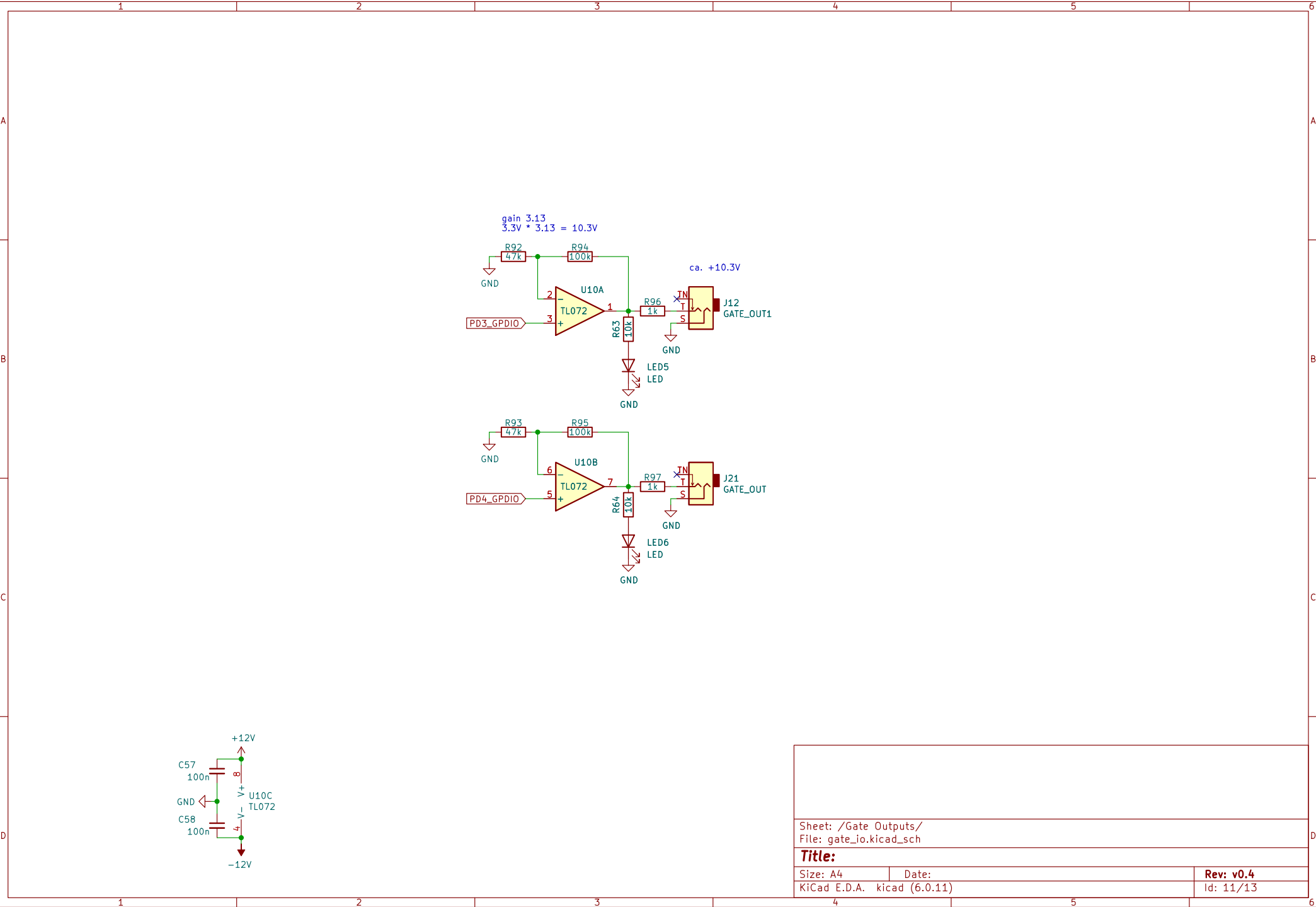
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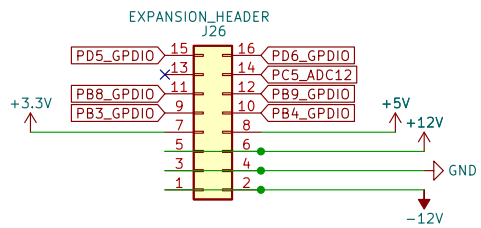
Date:

Rev: v0.4

Id: 10/13



Sheet: /Gate Outputs/ File: gate_io.kicad_sch		
Title:		
Size: A4	Date:	Rev: v0.4
KiCad E.D.A. kicad (6.0.11)	Id: 11/13	



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File: untitled.kicad\_sch

**Title:**

Size: A4	Date:	Rev: v0.4
KiCad E.D.A. kicad (6.0.11)		Id: 12/13

1	2	3	4	5	6
<div><div>Changelog</div><div><div>v0.3 done – prototype ordered 2024–02–07</div><div><div>v0.4 done – prototype ordered 2024–03–06</div><div><div>!!</div><div><div>– swap pins PD5 and PD6 on expansion header (consistency)</div><div>– rework USB connector and SD card connector footprints, panel holes</div><div>– Use pseudo–SMD pin socket for J1 line in/out to Core</div><div>– Use LM4040–10 instead of CJ431 for stabler VREF</div><div>– Add extra caps on 3.3V rail</div><div>– Use “thin” OLED footprint (slightly different dimensions)</div><div>– Adjust Thonkiconn stereo jacks footprint size, position</div><div>– Fix encoder pins not connecting to any MCU pin</div></div></div><div><div>v0.4 done – production</div><div><div>– Add filter caps to pots 1–4</div></div></div></div></div></div>					
A					A
B					B
C					C
D					D
1	2	3	4	5	6

Sheet: /changelog/ File: changelog.kicad_sch		
Title:		
Size: A4	Date:	Rev: v0.4
KiCad E.D.A. kicad (6.0.11)		Id: 13/13