

MSign-NG

**MLABS**

Sheet: /

File: mainboard.kicad\_sch

**Title: Root**

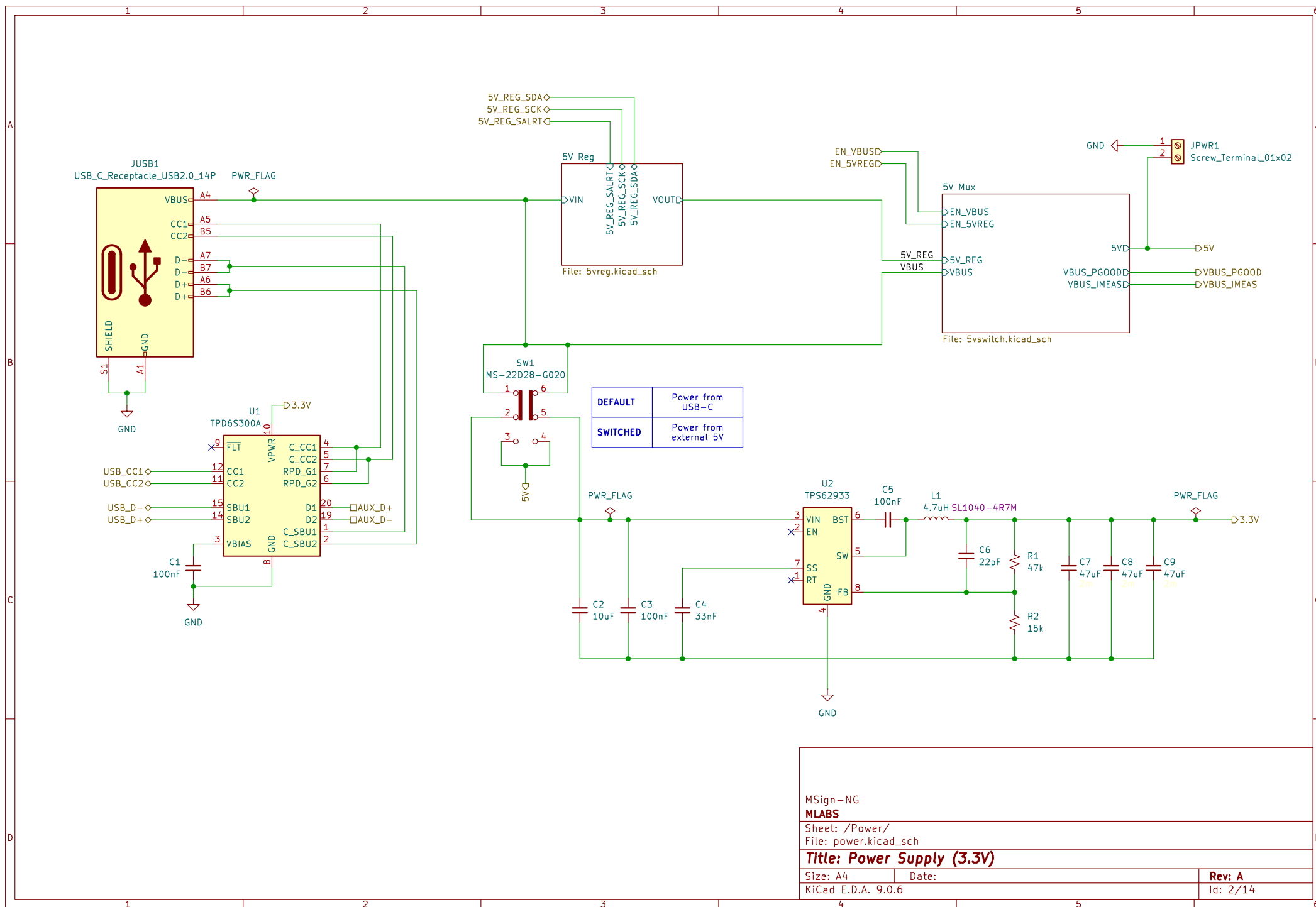
Size: A4

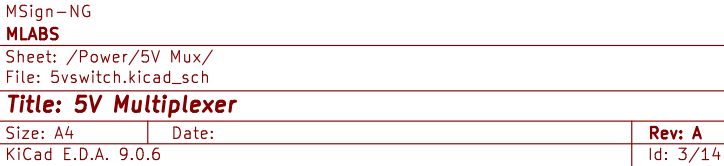
Date:

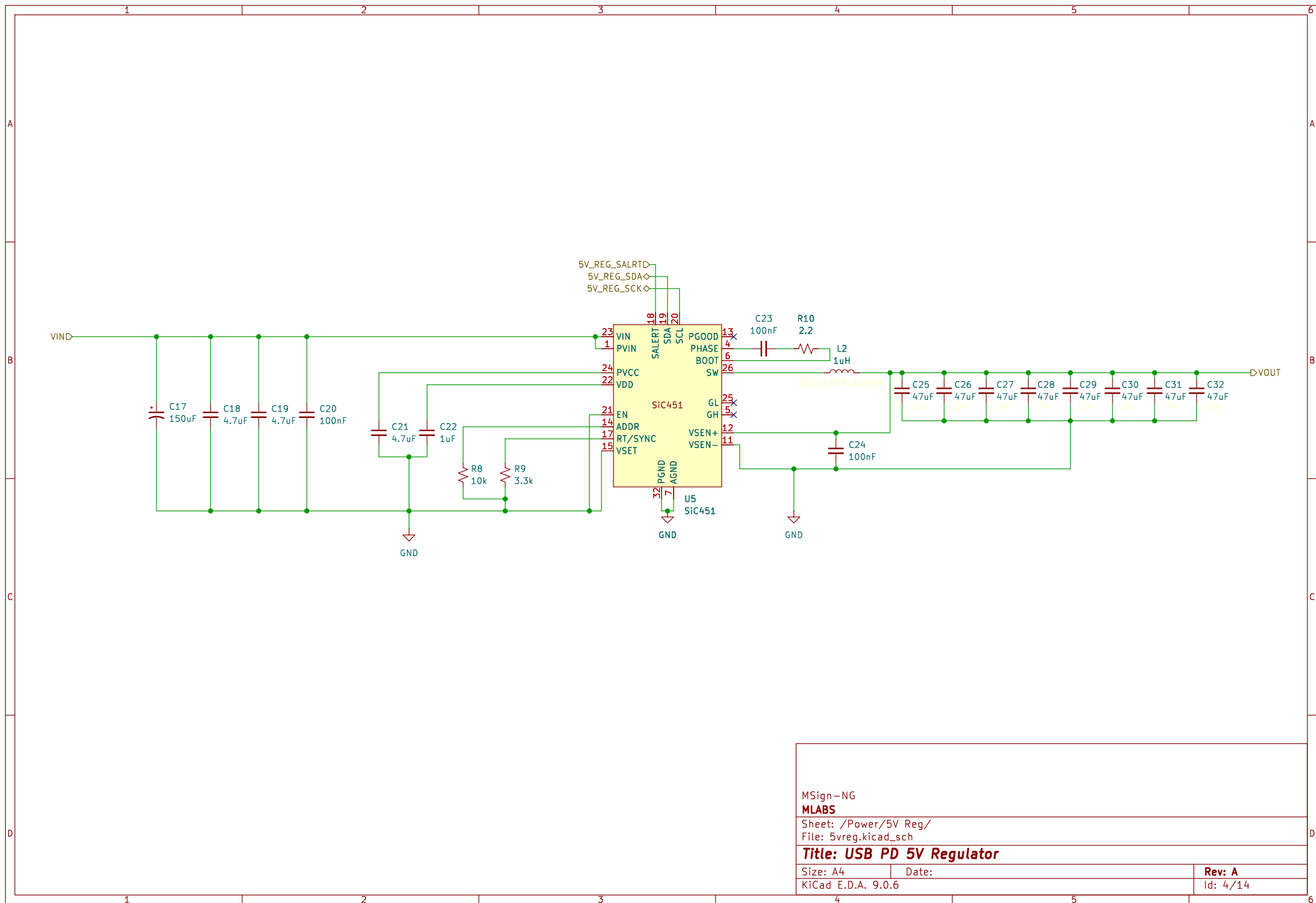
KiCad E.D.A. 9.0.6

**Rev: A**

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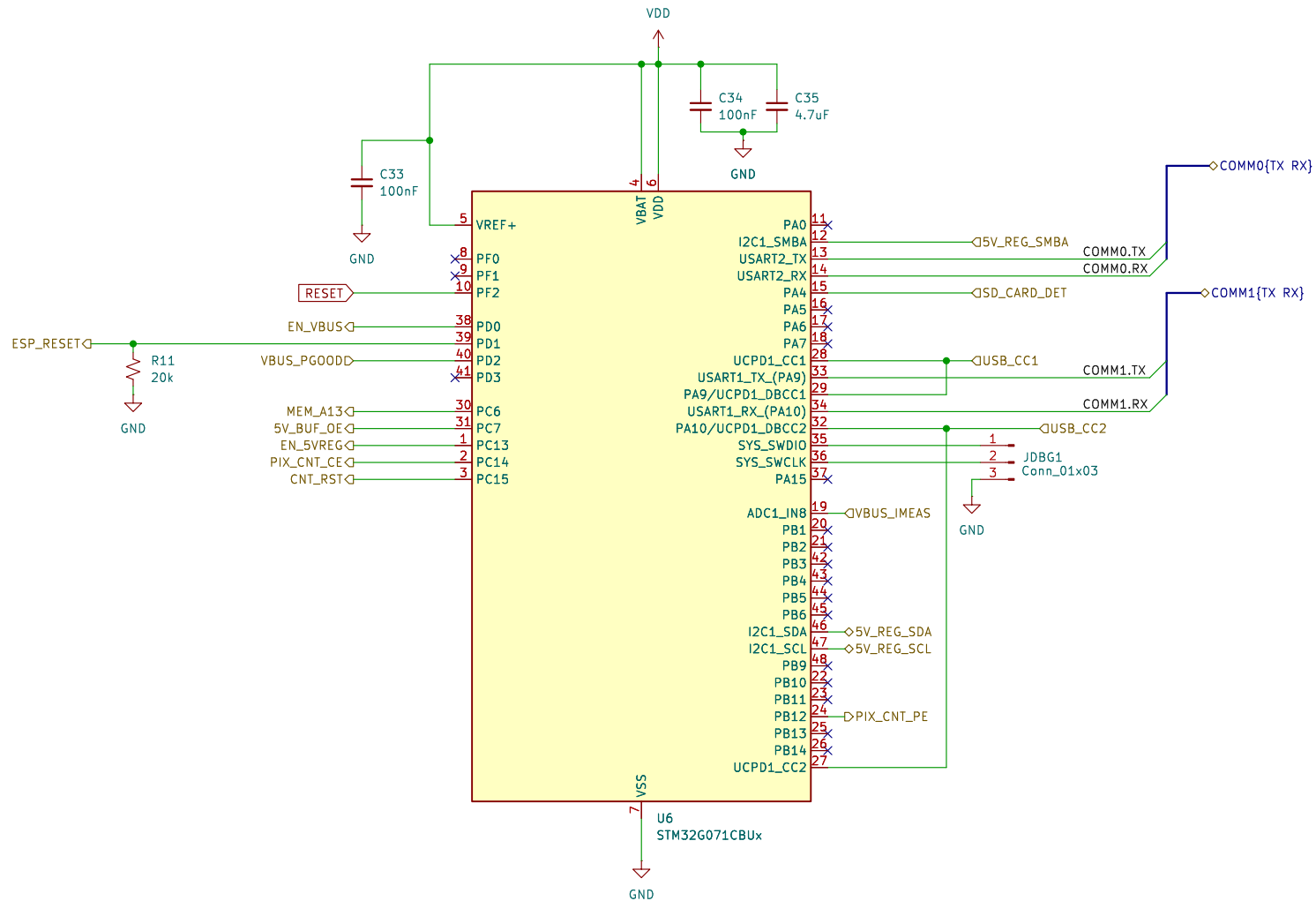
Sheet: /Power/5V Reg/  
File: 5vreg.kicad\_sch

**Title: USB PD 5V Regulator**

Size: A4  
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Date:

Rev: A  
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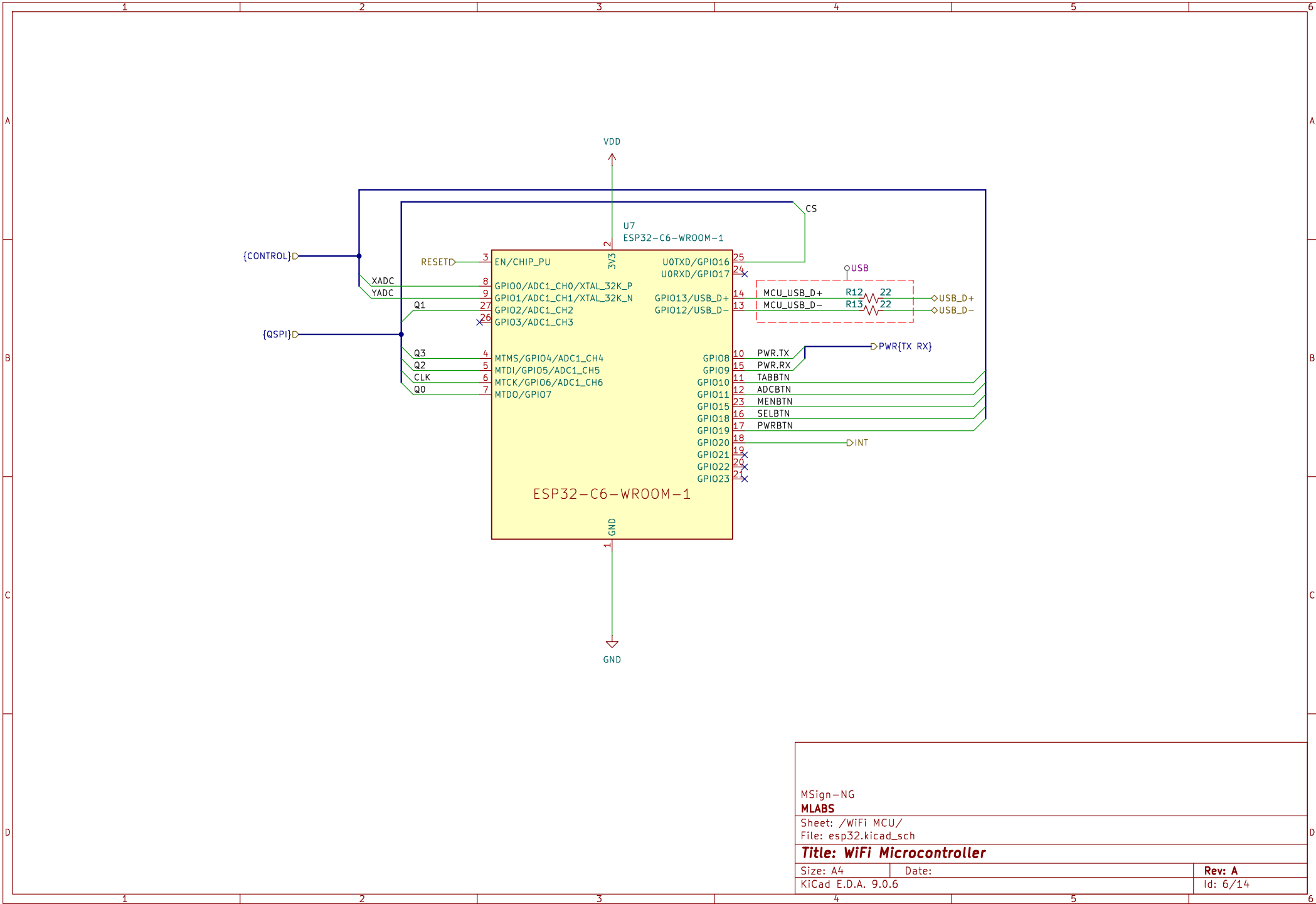
Sheet: /Power MCU/  
File: stm32.kicad\_sch

**Title: Power Supply (+aux Decoder IO) Microcontroller**

Size: A4  
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Date:

Rev: A  
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Sheet: /WiFi MCU/

File: esp32.kicad\_sch

**Title: WiFi Microcontroller**

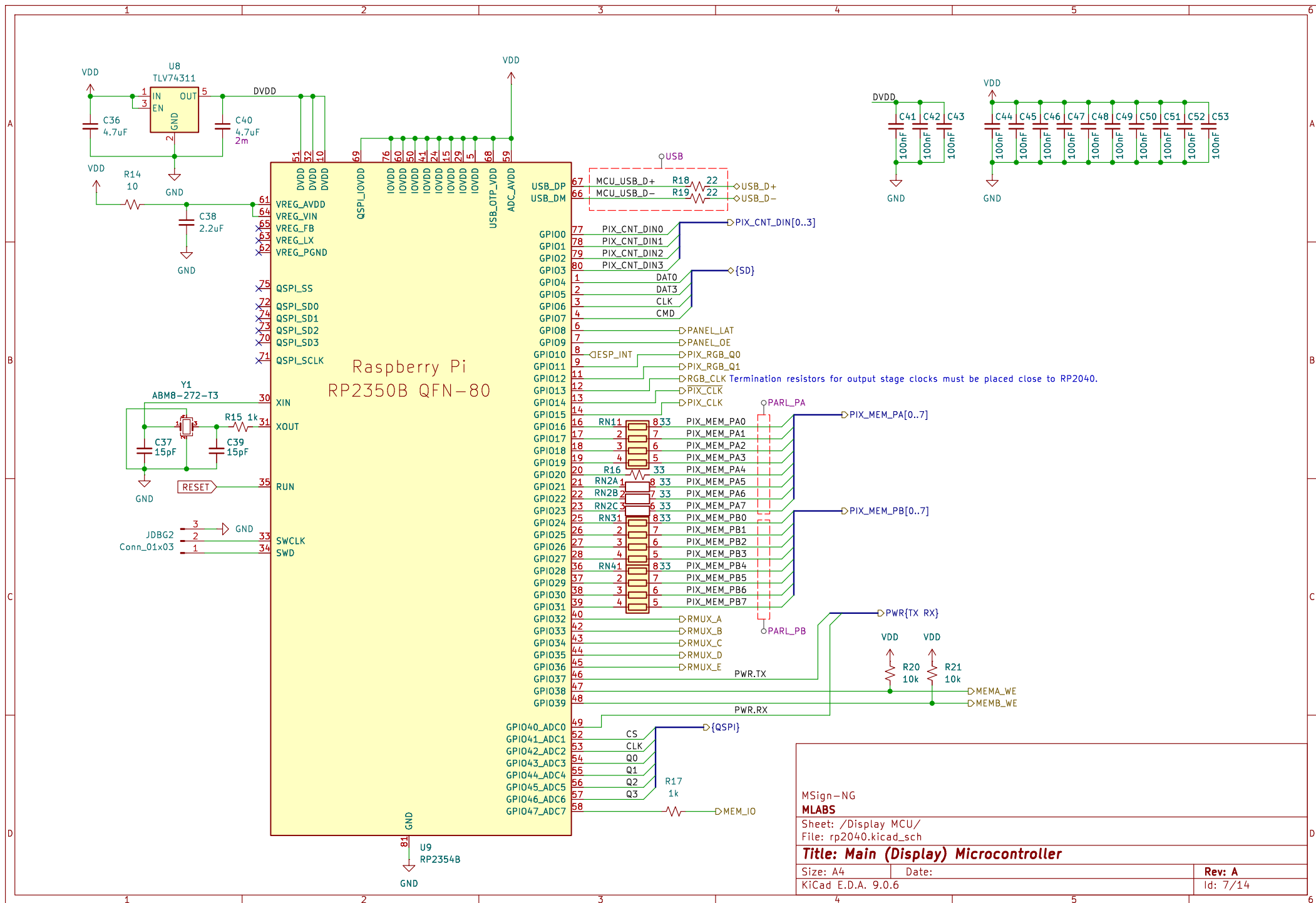
Size: A4

Date:

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Sheet: /Display MCU/  
File: rp2040.kicad\_sch

**Title: Main (Display) Microcontroller**

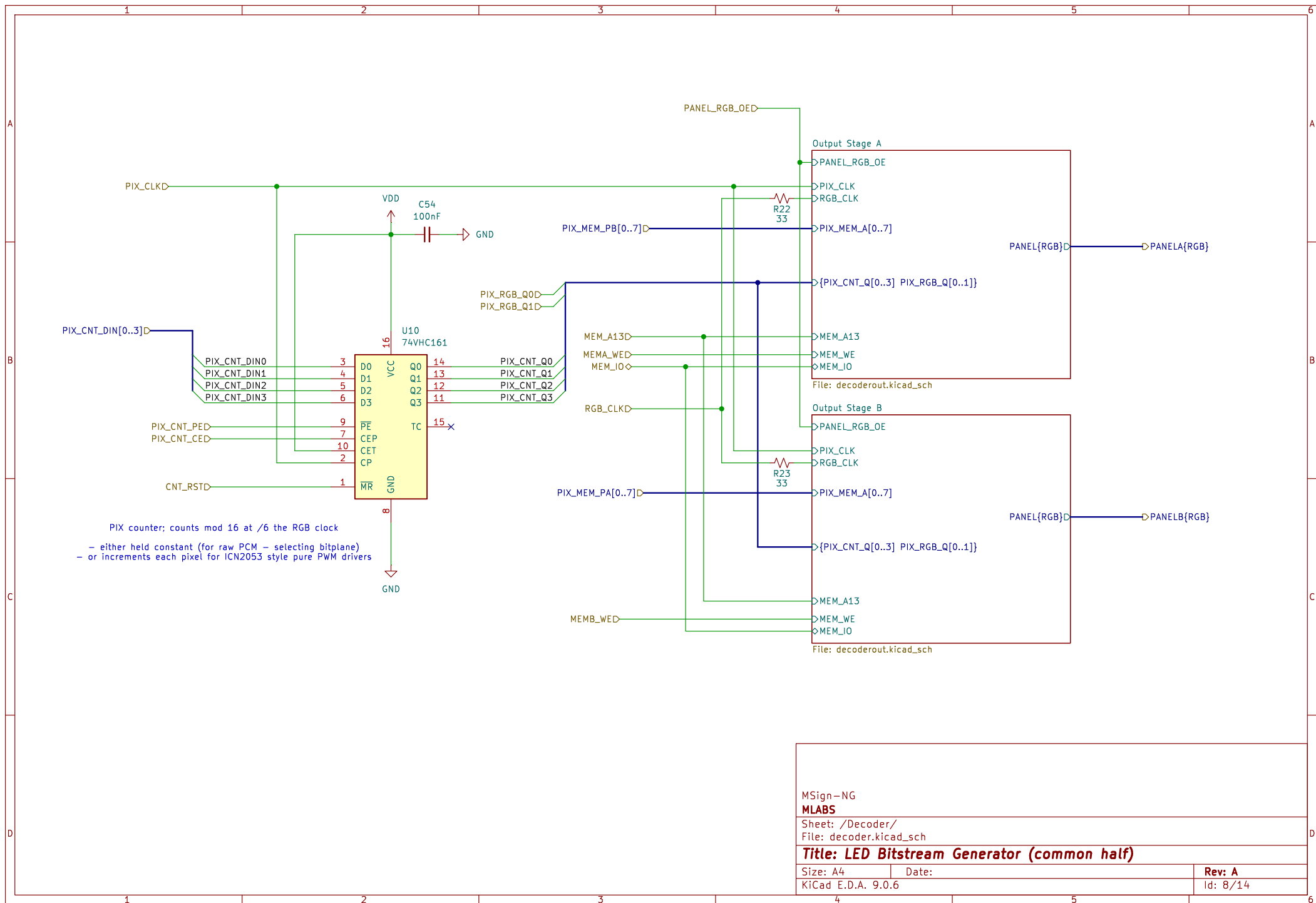
Size: A4

Date:

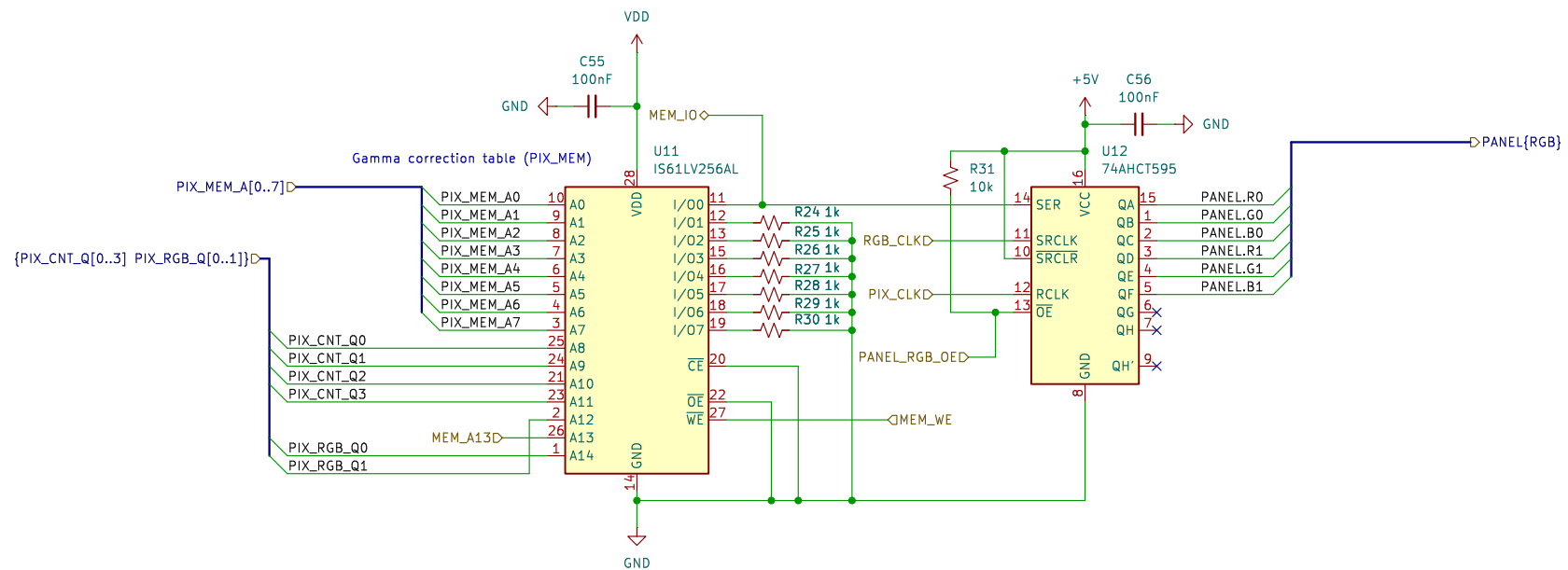
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Rev: A

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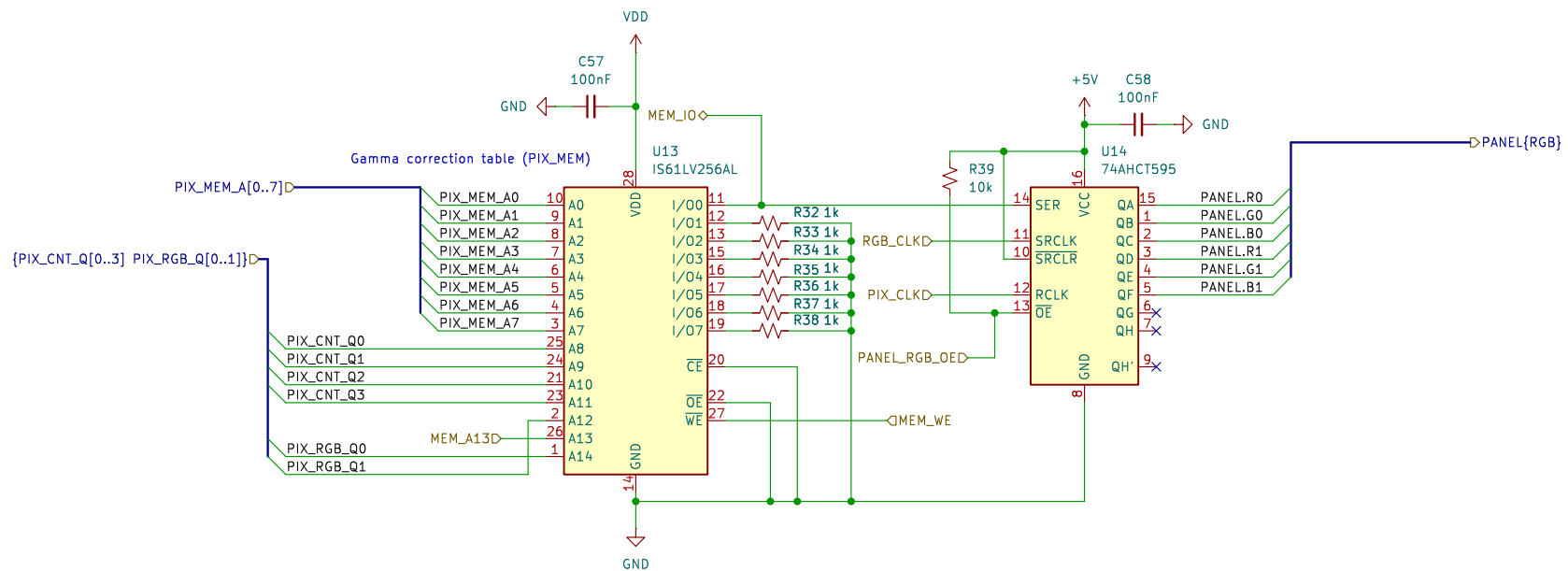
Sheet: /Decoder/Output Stage A/  
File: decoderout.kicad\_sch

**Title: LED Bitstream Generator (gamma LUT + shifter)**

Size: A4  
KiCad E.D.A. 9.0.6

Date:

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Sheet: /Decoder/Output Stage B/  
File: decoderout.kicad\_sch

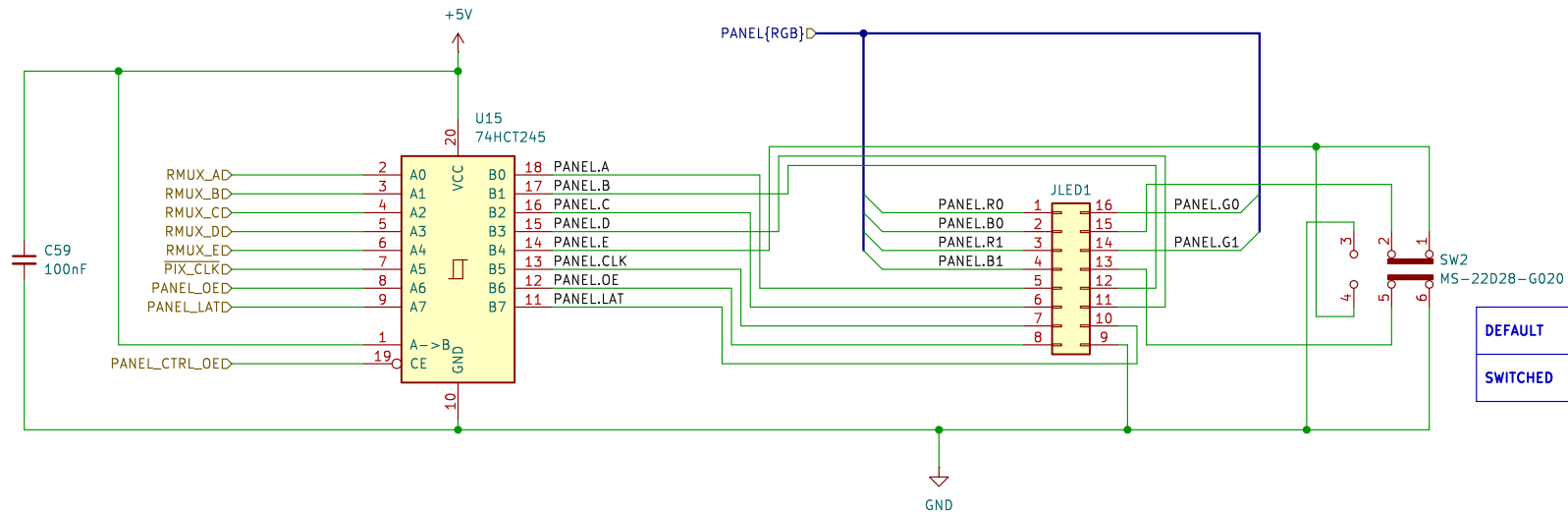
**Title: LED Bitstream Generator (gamma LUT + shifter)**

Size: A4  
KiCad E.D.A. 9.0.6

Date:

Rev: A

Id: 10/14



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Sheet: /LED Connection A/  
File: matrixandbuffer.kicad\_sch

### Title: LED Level Shifter + Socket

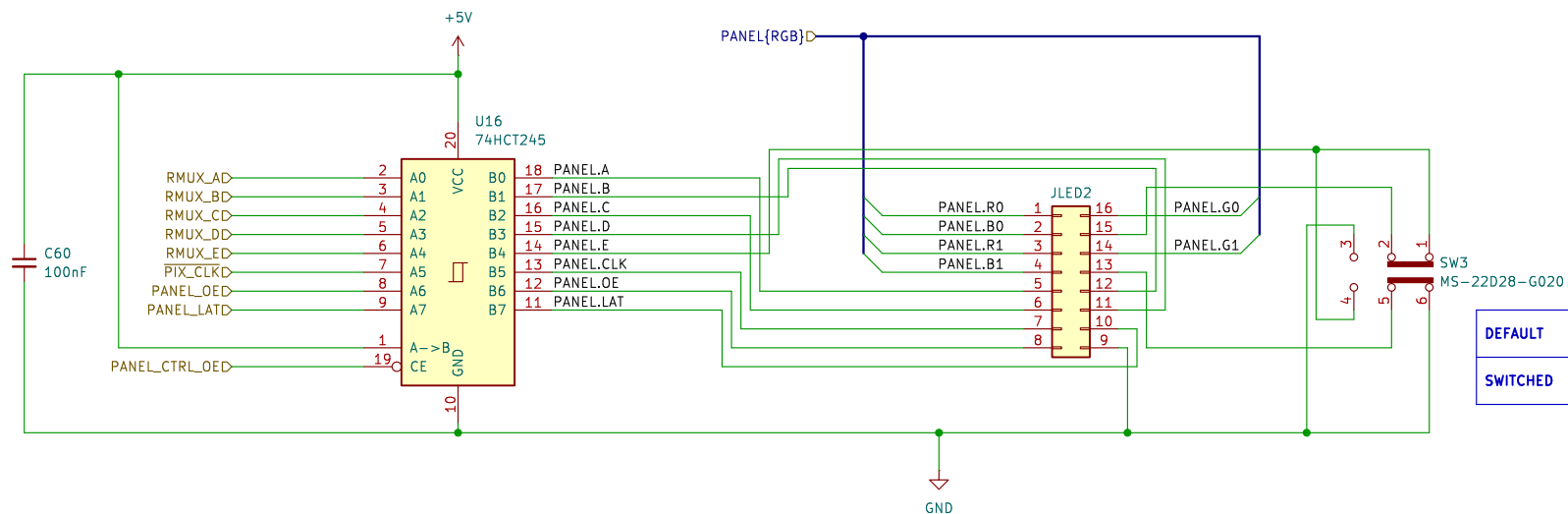
Size: A4

Date:

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Rev: A

Id: 11/14



DEFAULT	E on top of connector
SWITCHED	E on bottom of connector

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Sheet: /LED Connection B/  
File: matrixandbuffer.kicad\_sch

**Title: LED Level Shifter + Socket**

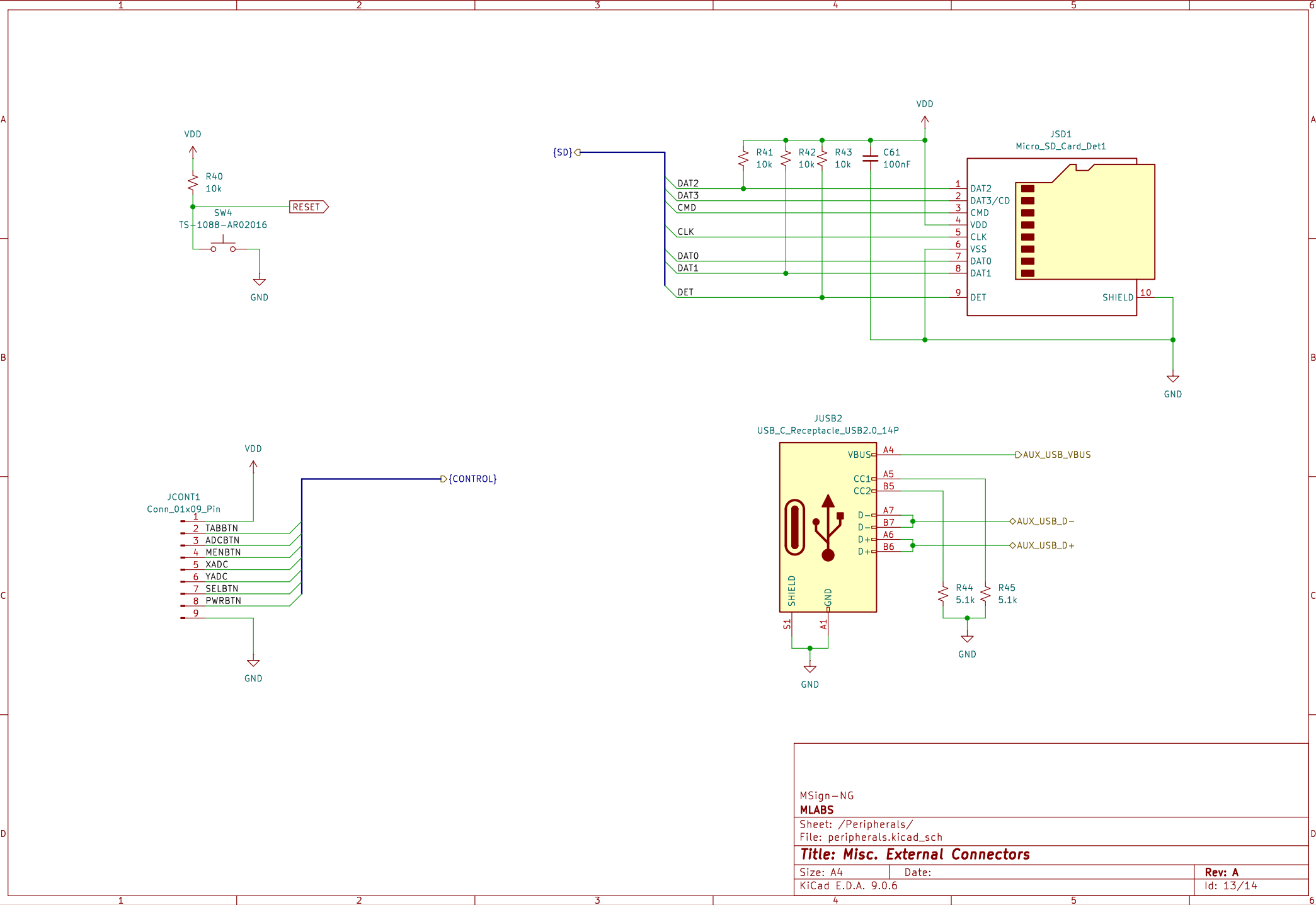
Size: A4

Date:

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Sheet: /Peripherals/  
File: peripherals.kicad\_sch

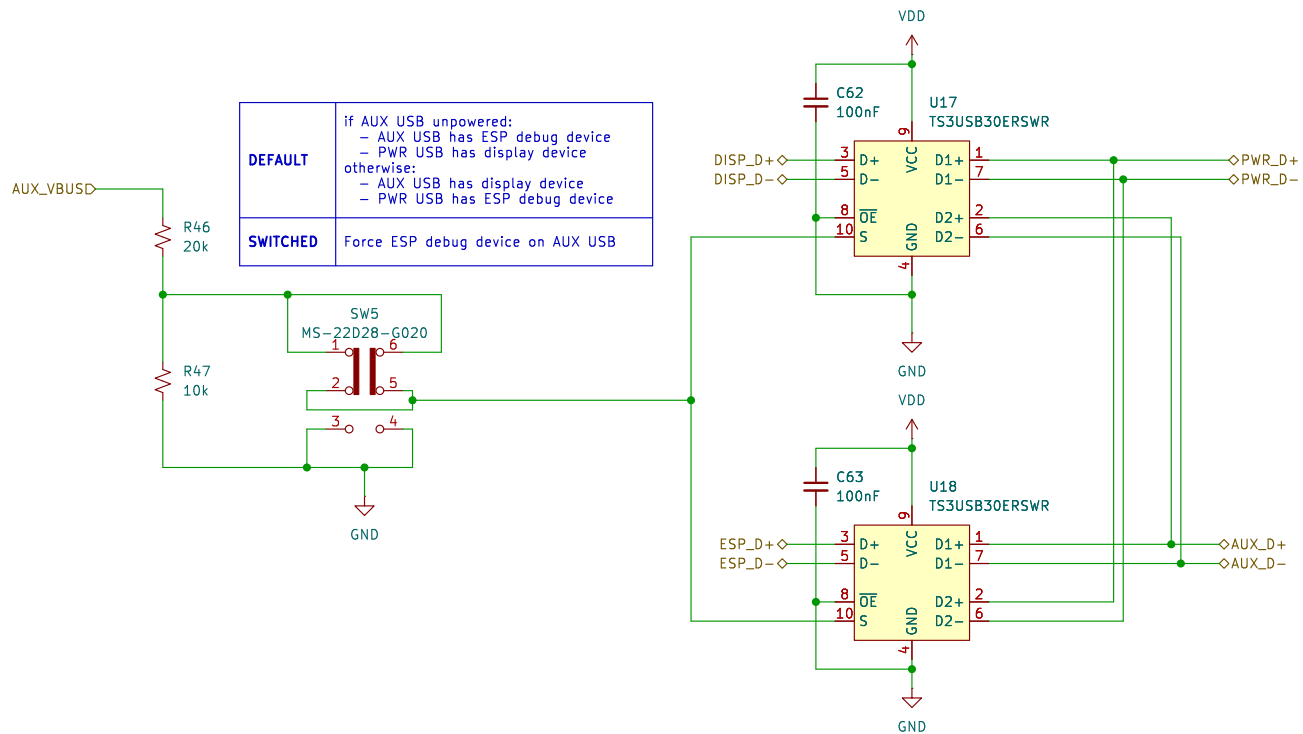
**Title: Misc. External Connectors**

Size: A4  
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Date:

Rev: A

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Sheet: /USB Mux/  
File: usbmux.kicad\_sch

**Title: USB Port Crosspoint Switch**

Size: A4

Date:

Rev: A

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