

A

B

C

D

E

F

A

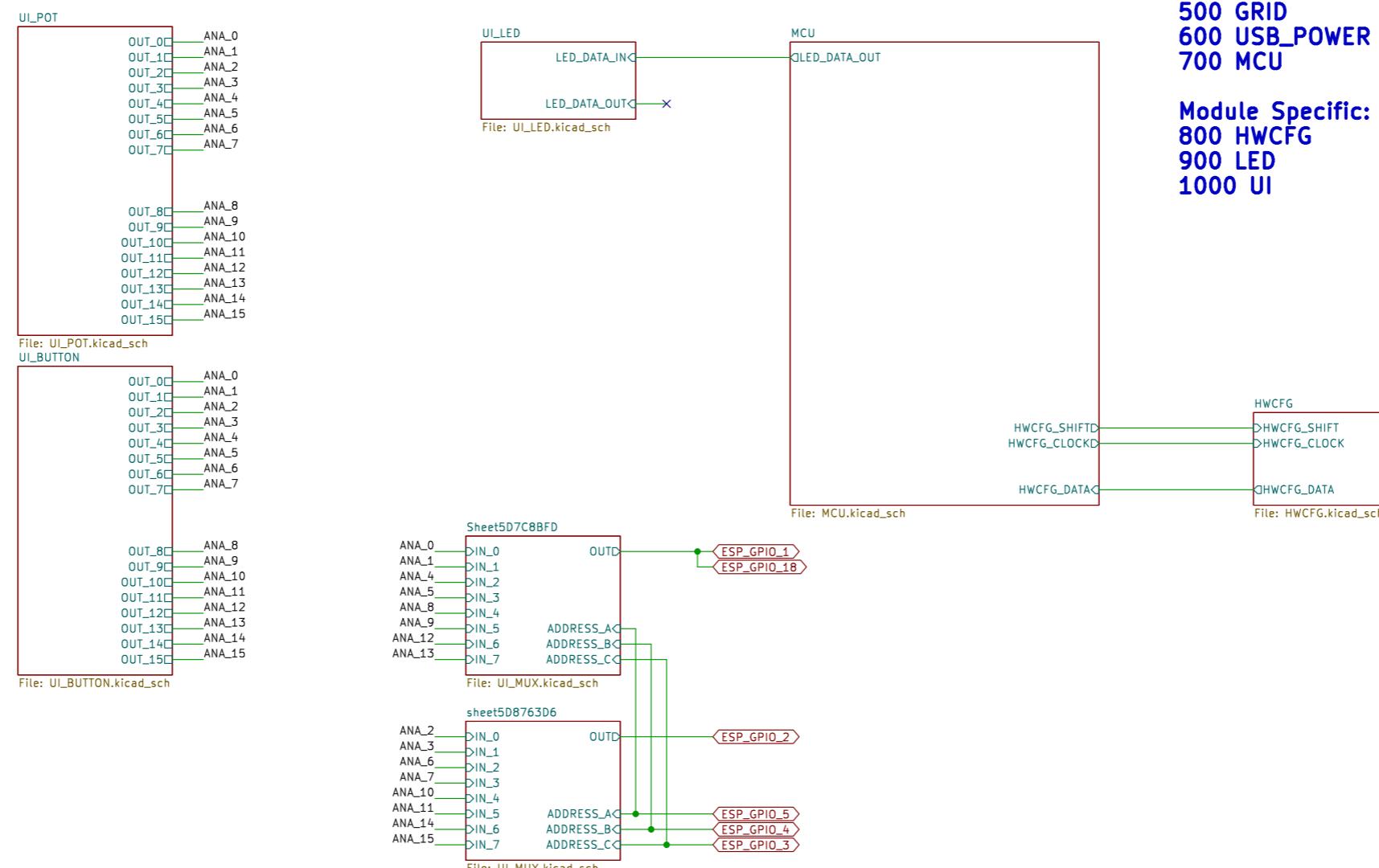
B

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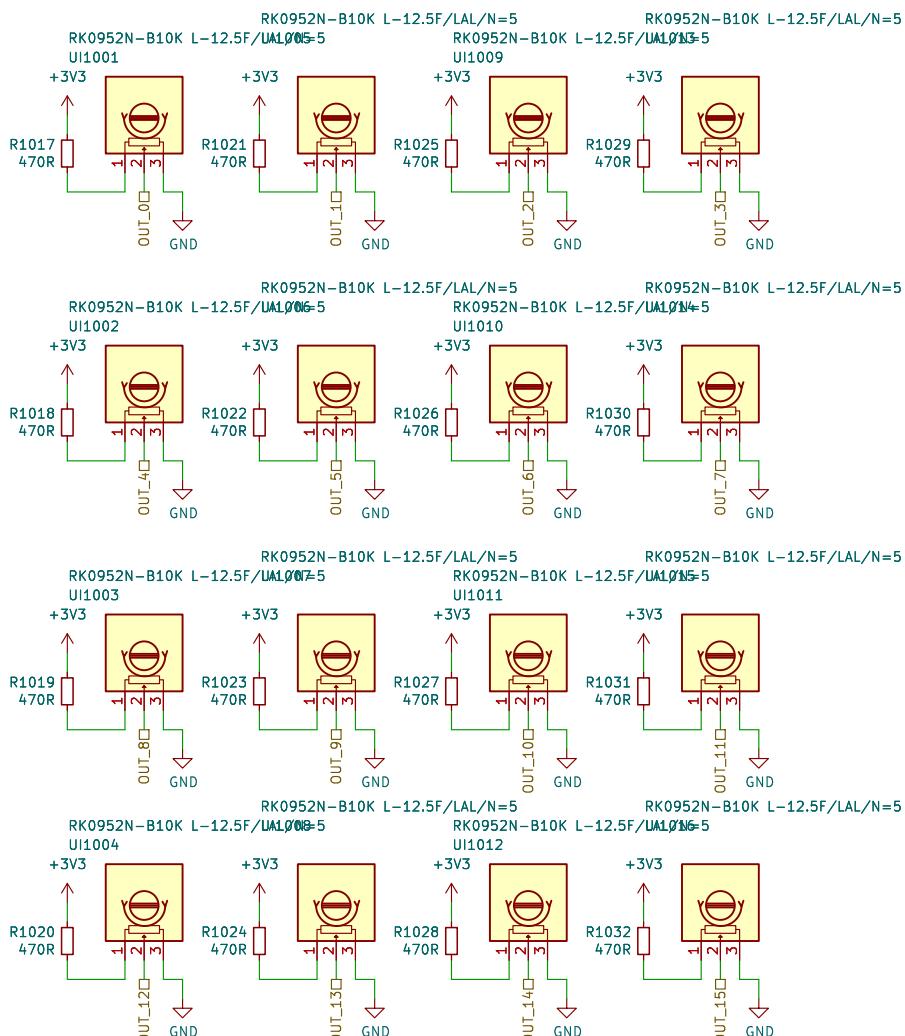
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Rev:	
Id: 1/10	

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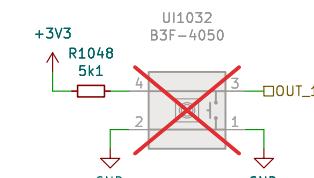
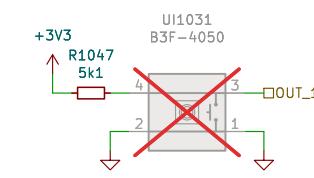
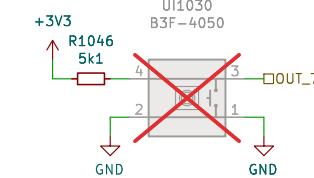
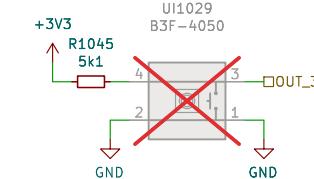
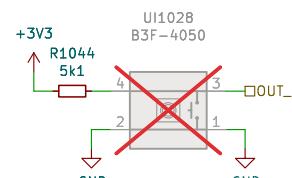
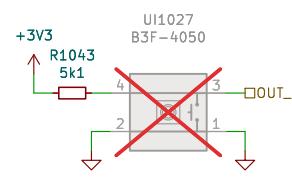
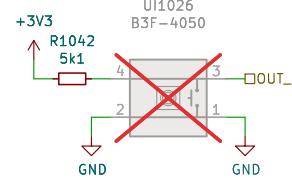
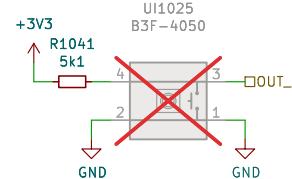
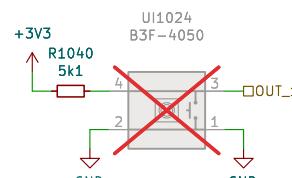
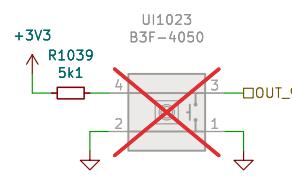
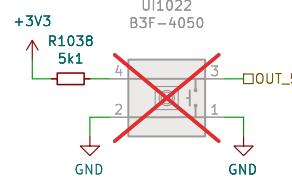
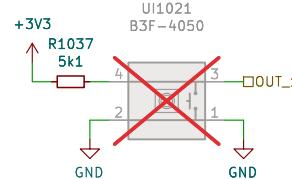
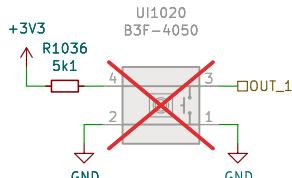
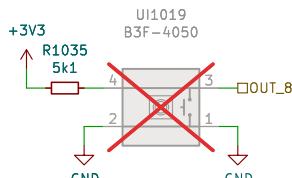
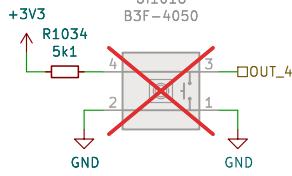
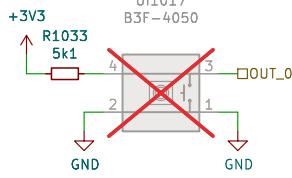
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KiCad E.D.A. 9.0.6

Rev:  
Id: 2/10

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<http://tinyurl.com/y229mty4>



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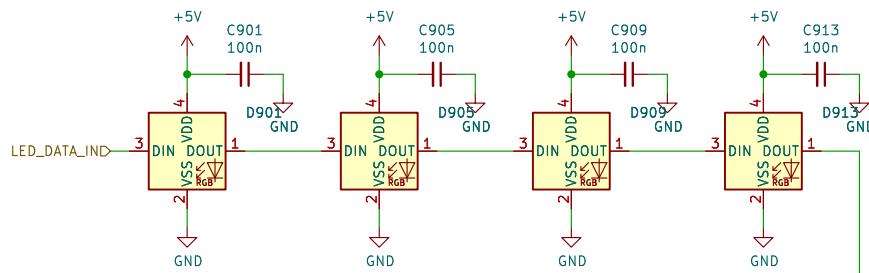
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KiCad E.D.A. 9.0.6

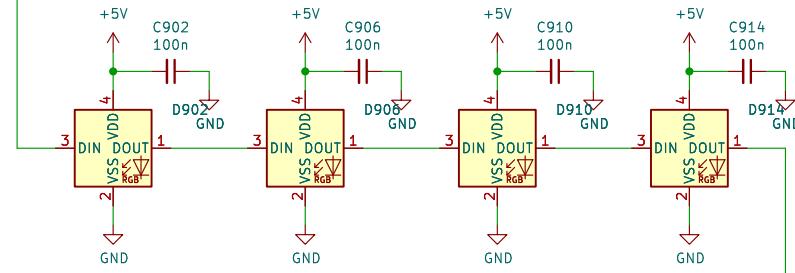
Rev:  
Id: 3/10

# 900

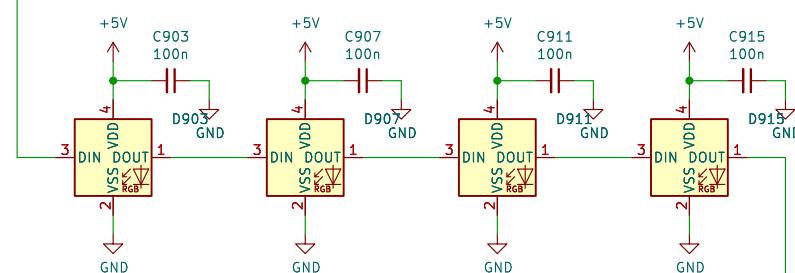
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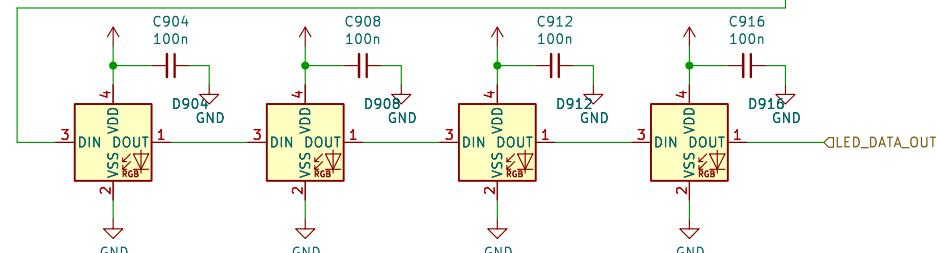
B



C



D



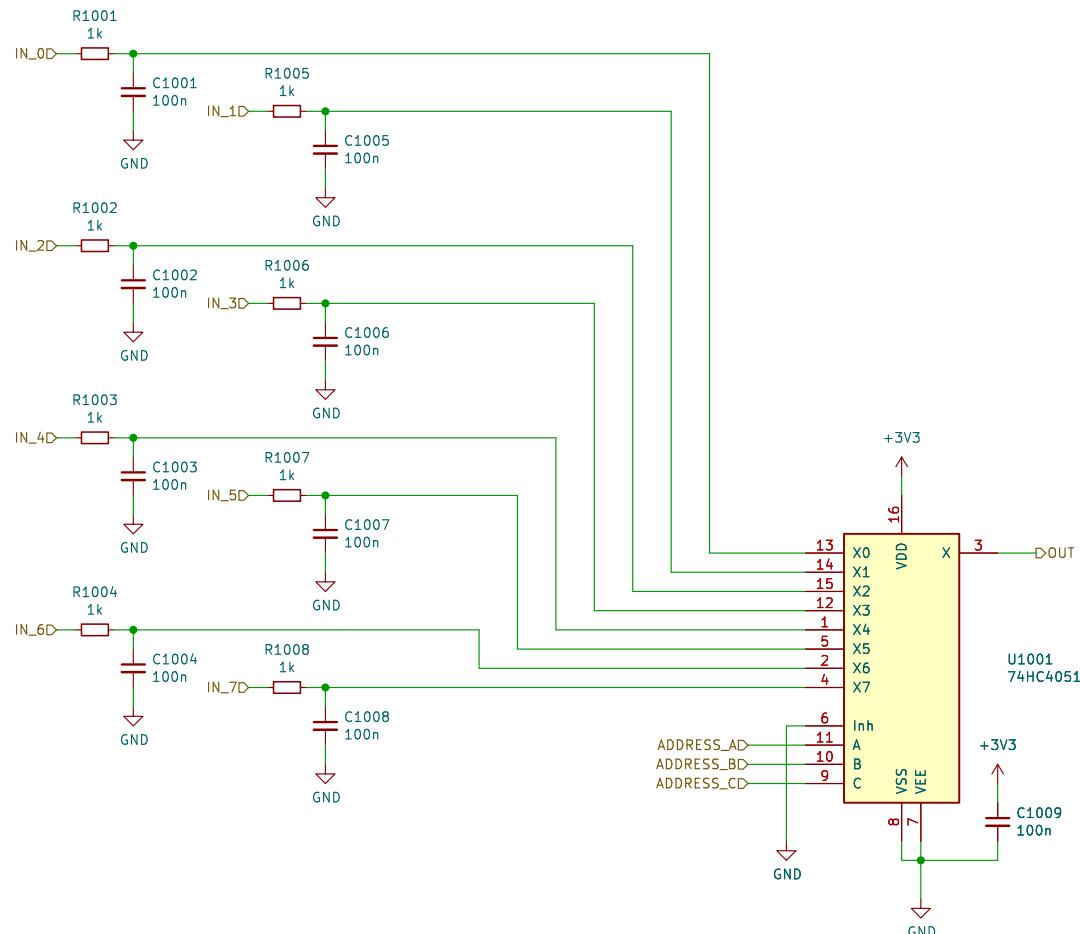
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KiCad E.D.A. 9.0.6

Rev:  
Id: 4/10

# 1000



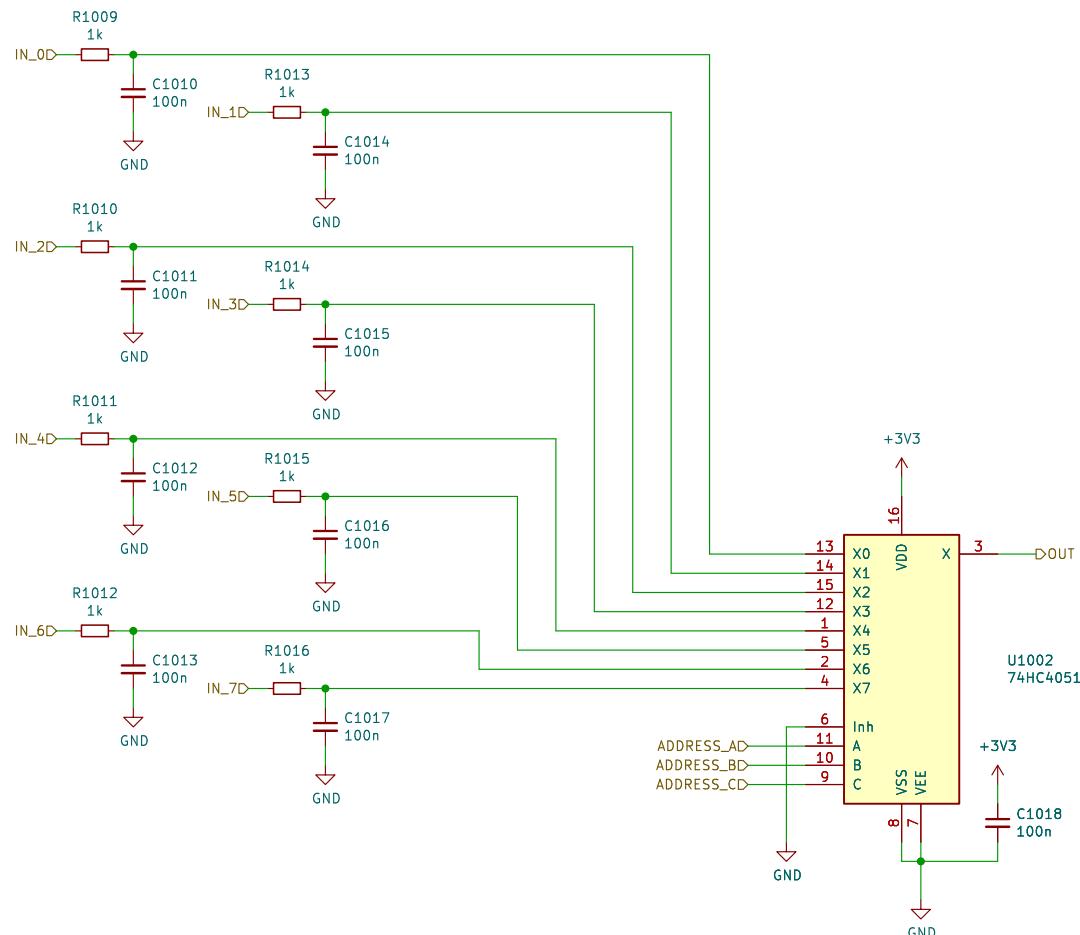
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Size: A4 | Date:  
KiCad E.D.A. 9.0.6

**Rev:**  
Id: 5/10

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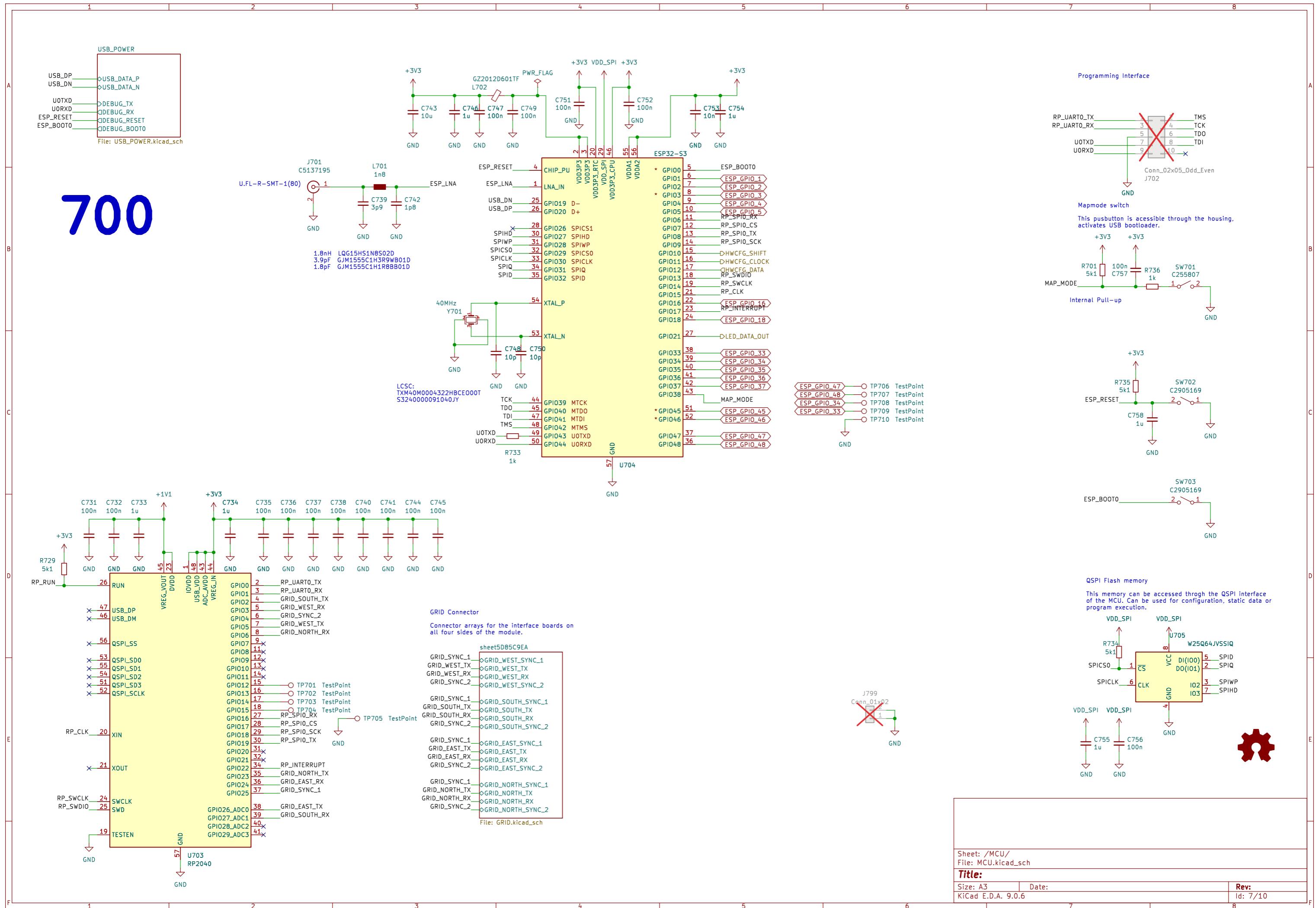


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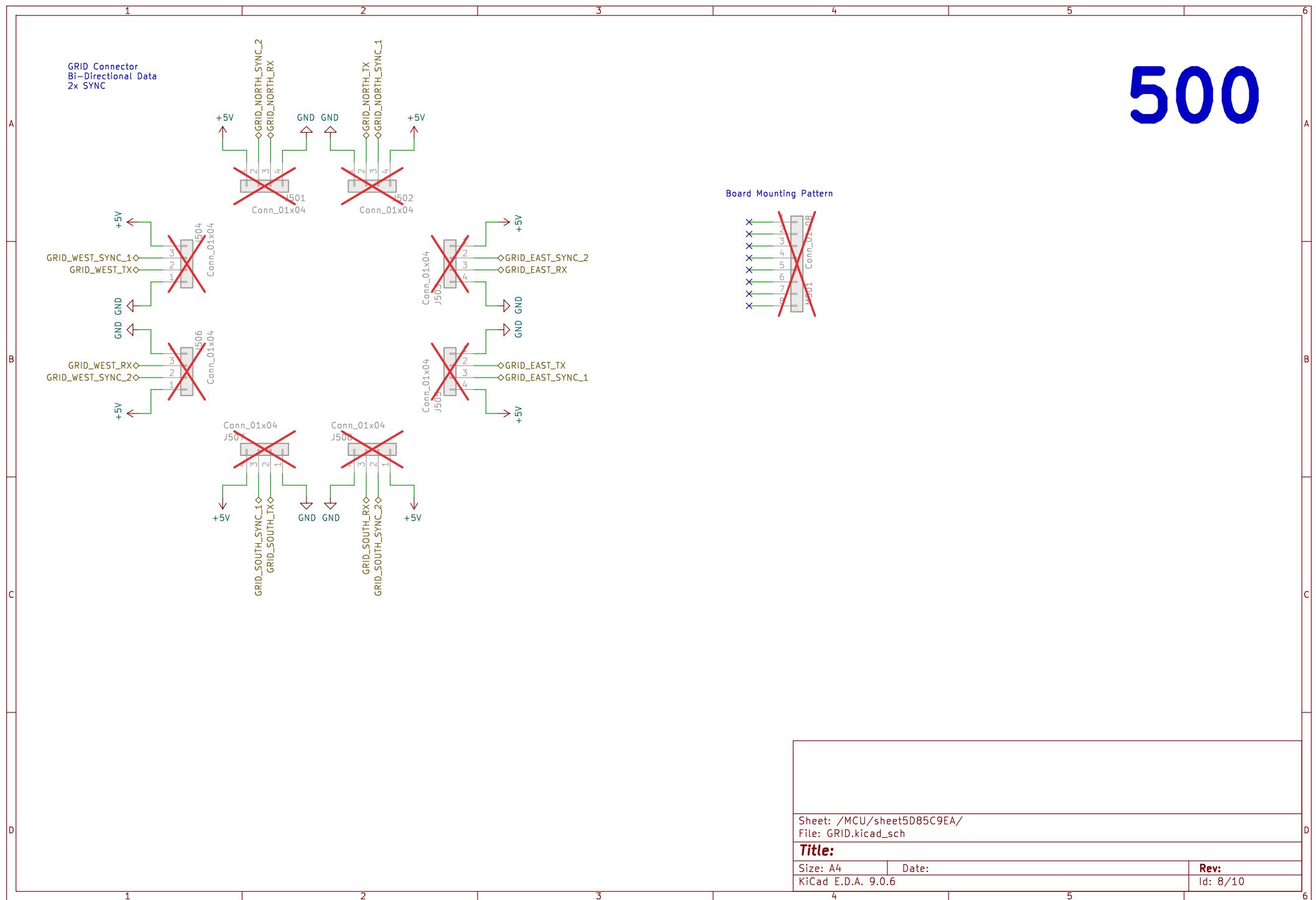
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Size: A4 | Date:  
KiCad E.D.A. 9.0.6

**Rev:**  
Id: 6/10



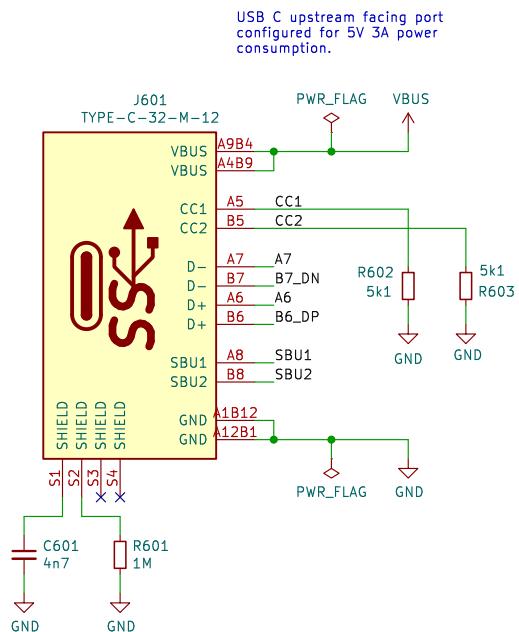
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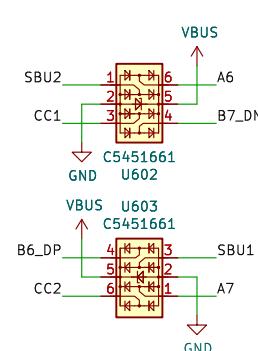
# 600

## USB Port

## ESD Prot.

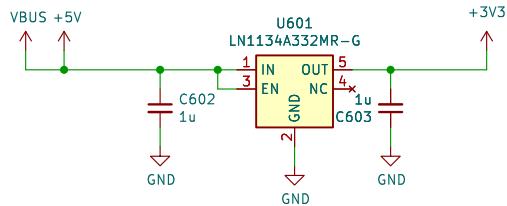


ESD protection for all 8 signals externally accessible via the USB C connector.

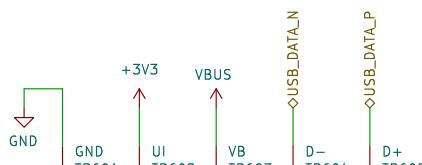


## 3V3 LDO

LDO regulator for generating the +3V3 power rail for the microcontroller and UI.

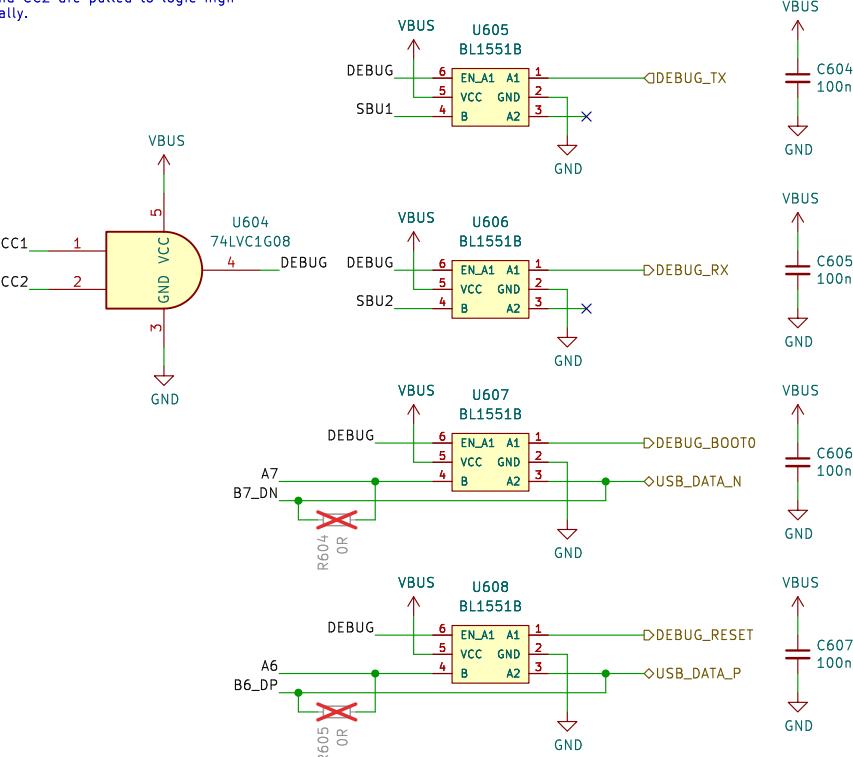


## Testpoints



## Debug-Mode Multiplexing

Debug.mode is activated when both CC1 and CC2 are pulled to logic high externally.



Sheet: /MCU/USB\_POWER/  
File: USB\_POWER.kicad\_sch

Title:

Size: A4 Date:  
KiCad E.D.A. 9.0.6

Rev:  
Id: 9/10

# 800

A

A

B

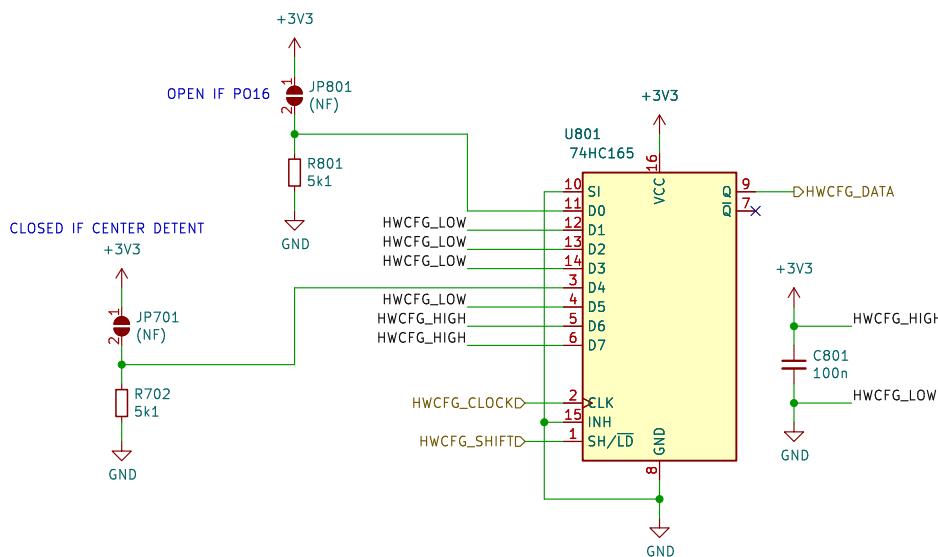
B

C

C

D

D



#### Board Identification

Grid firmware can identify the hardware and the board revision through a 3 wire serial interface using one or more shift register as read only memory. The content of the memory is defined by pulling the inputs high or low through pcb traces or solderable configuration jumpers.

4<sup>b</sup>Model + 4<sup>b</sup>Revision + nb'Reserved (Multiple shift registers)

D0: MODEL (LSB)  
 D1: MODEL  
 D2: MODEL  
 D3: MODEL (MSB)  
 D4: REVISION (LSB)  
 D5: REVISION  
 D6: REVISION  
 D7: REVISION (MSB)

#### Model Codes (D3–D0):

Po16 0000  
 Bo16 0001  
 PBf4 0010  
 EN16 0011  
 ...

#### Revision Codes (D7–D4):

RevA 0000  
 RevB 0001  
 RevC 0010  
 RevD 0011  
 ...

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

#### Title:

Size: A4 | Date:  
 KiCad E.D.A. 9.0.6

Rev:  
 Id: 10/10