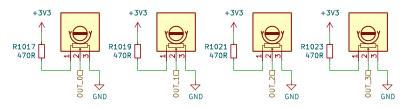
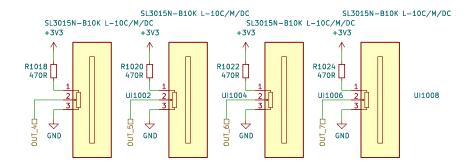


RK0952N-B10K L-12.5F/RKQ/9520-B10K L-12.5F/RKQ/9520-B10K L-12.5F/RKQ/9520-B10K L-12.5F/LAL/N=5 UI1001 UI1003 UI1005 UI1007







Sheet: /UI\_POT/
File: UI\_POT.kicad\_sch

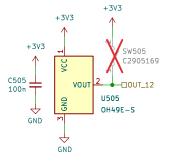
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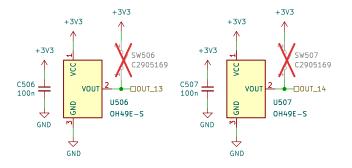
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 Rev:

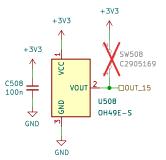
 KiCad E.D.A. 9.0.1
 Id: 2/15

Simulation:

http://tinyurl.com/y229mty4





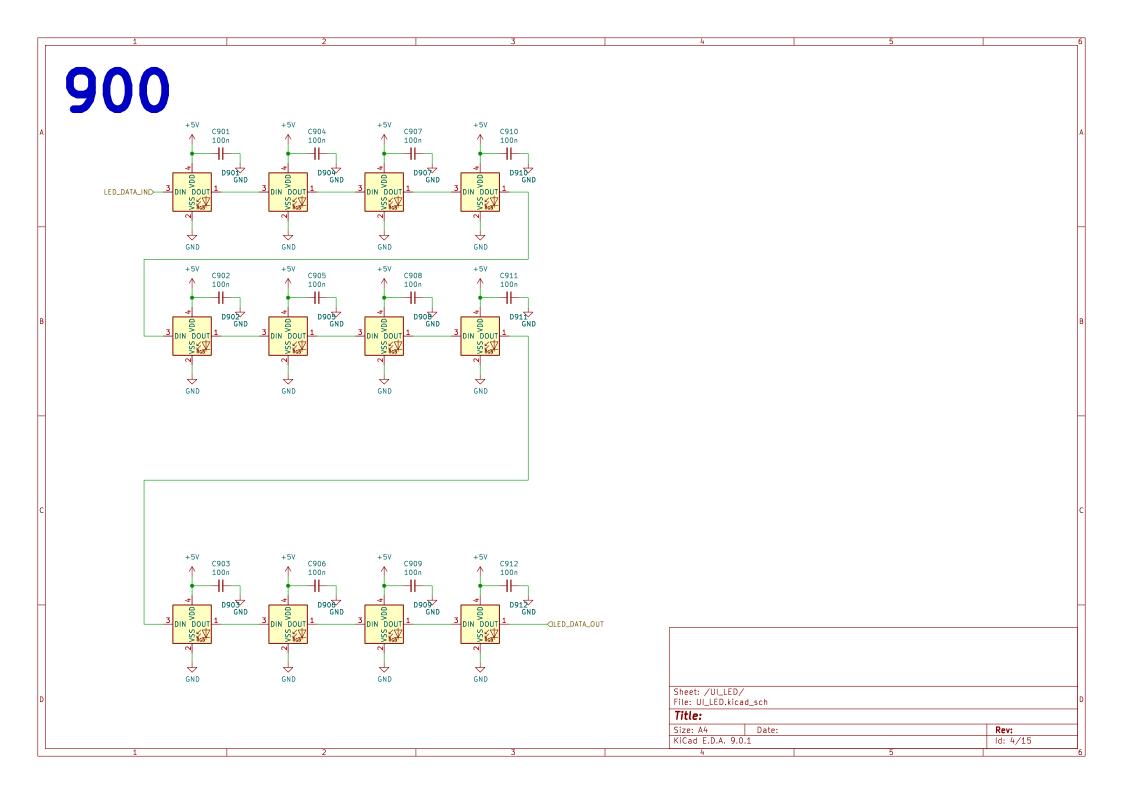


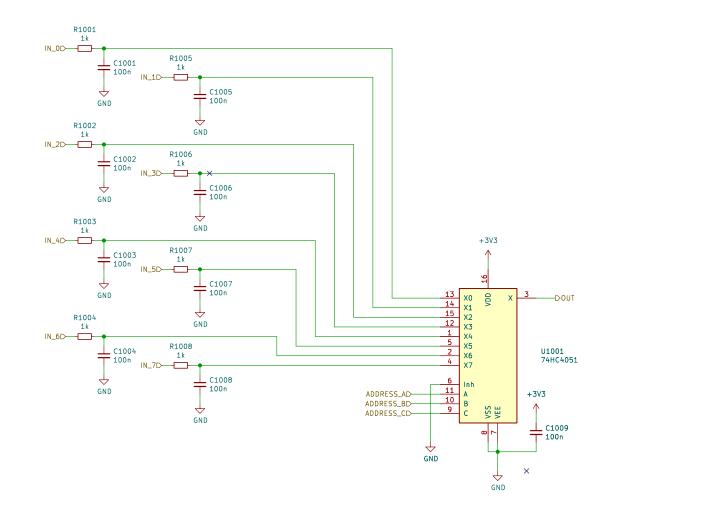
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 Rev:

 KiCad E.D.A. 9.0.1
 Id: 3/15



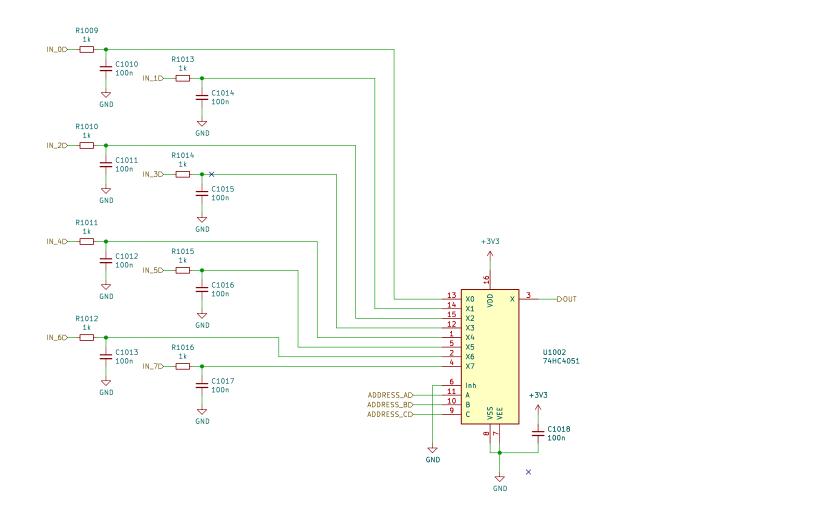


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Title:

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 Date:
 Rev:

 KiCad E.D.A. 9.0.1
 Id: 5/15

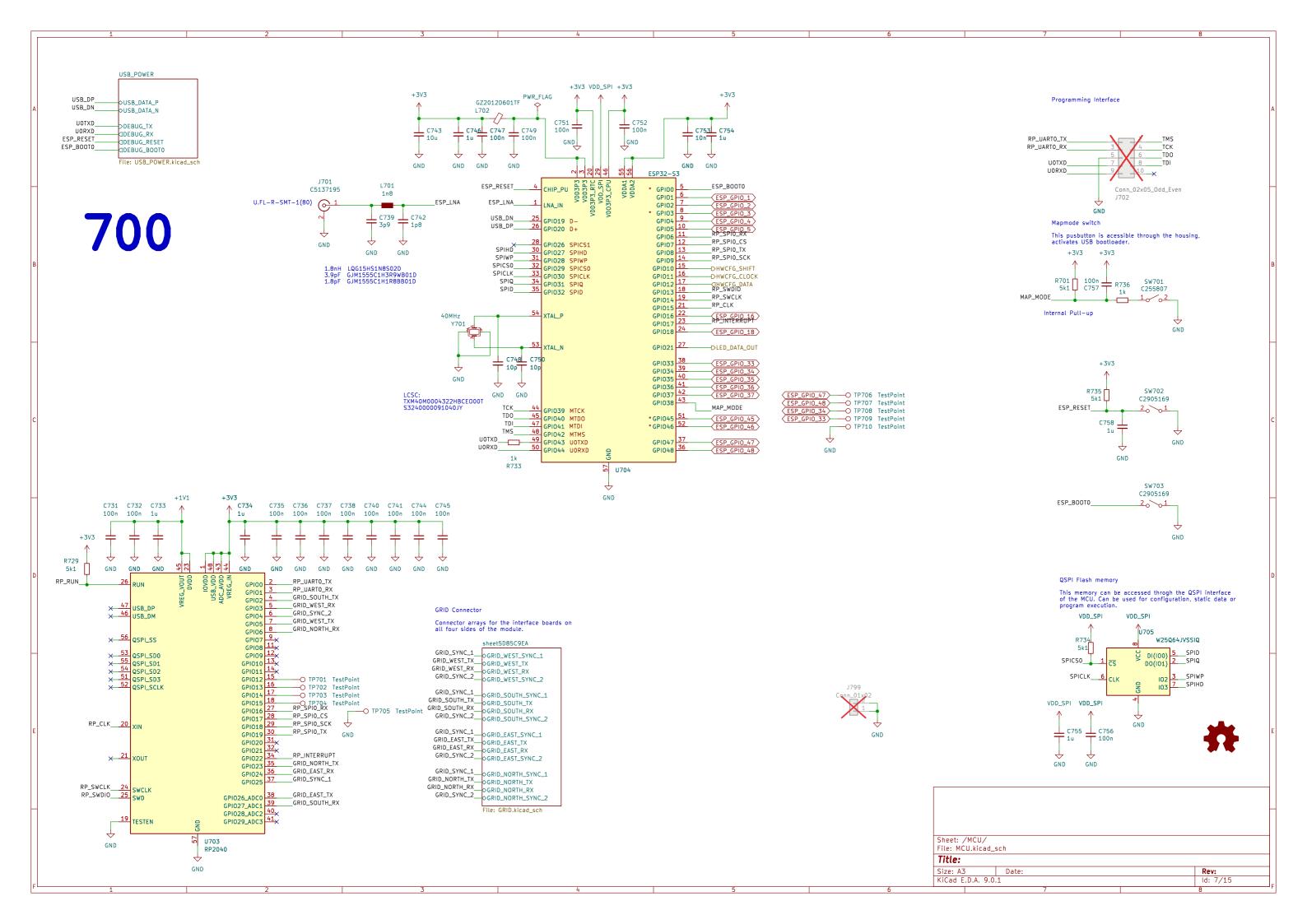


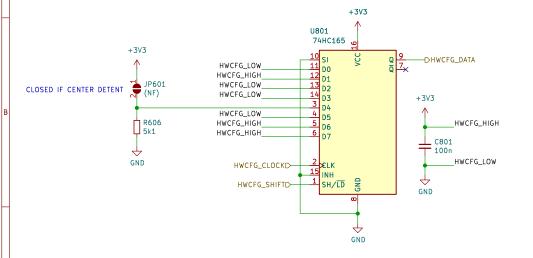
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Title:

 Size: A4
 Date:
 Rev:

 KiCad E.D.A. 9.0.1
 Id: 6/15





### Board Identification

Grid firmware can identify the hardware and the board revision thorugh 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.

4b'Model + 4b'Revision + nb'Reserved (Multiple shift registers)

```
DO: MODEL (LSB)
D1: MODEL
D2: MODEL
D3: MODEL (MSB)
D4: REVISION (LSB)
D5: REVISION
D6: 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

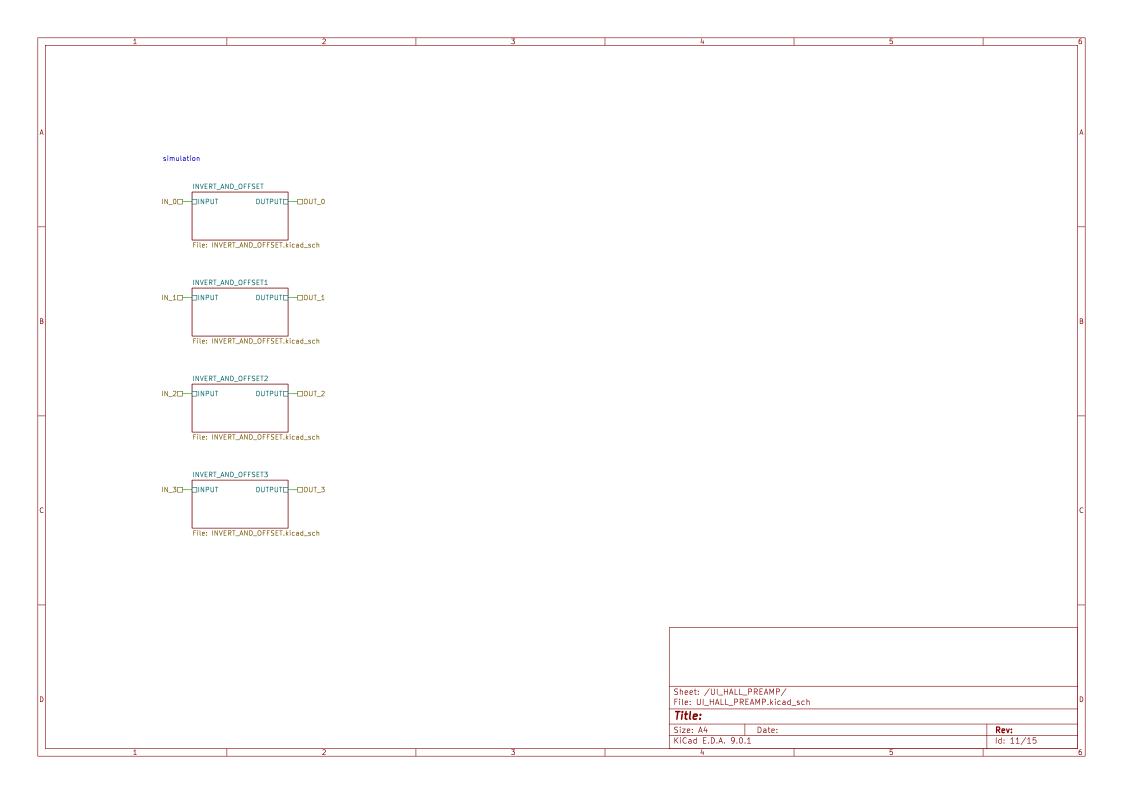
> Sheet: /HWCFG/ File: HWCFG.kicad\_sch

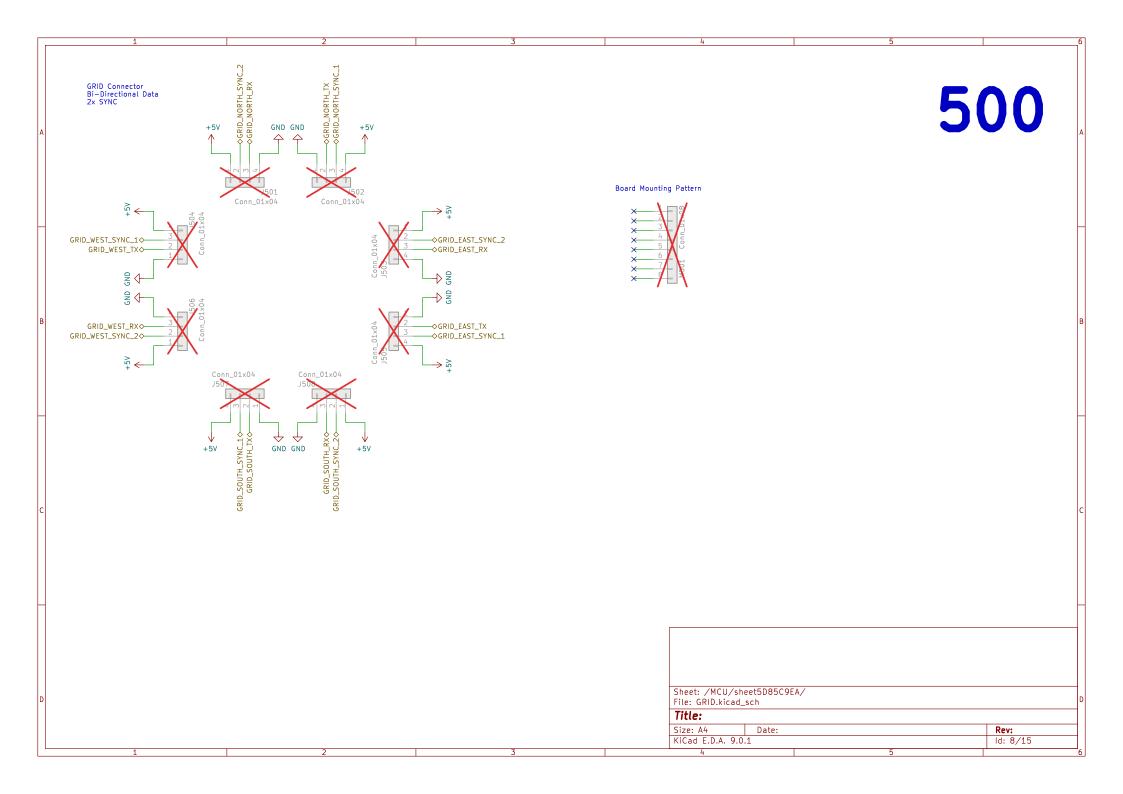
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 Rev:

 KiCad E.D.A. 9.0.1
 Id: 10/15

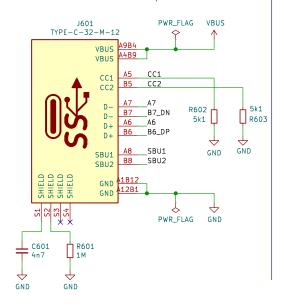
3



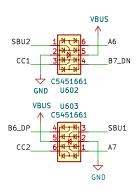


## **USB Port ESD Prot.**

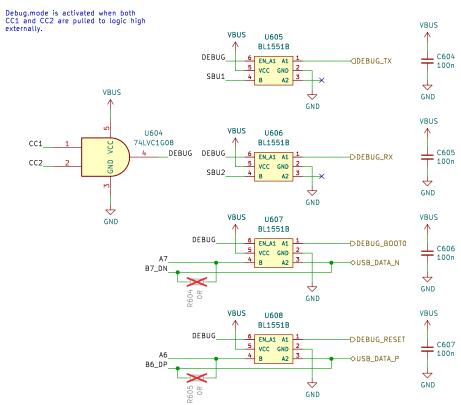
USB C upstream facing port configured for 5V 3A power consumption.



ESP protection for all 8 signals externally accessable via the USB C connector.

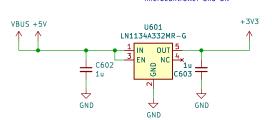


## Debug-Mode Multiplexing



## **3V3** LD0

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



# **Testpoints**



Sheet: /MCU/USB\_POWER/ File: USB POWER.kicad sch Title: Size: A4 Date: KiCad E.D.A. 9.0.1 ld: 9/15

