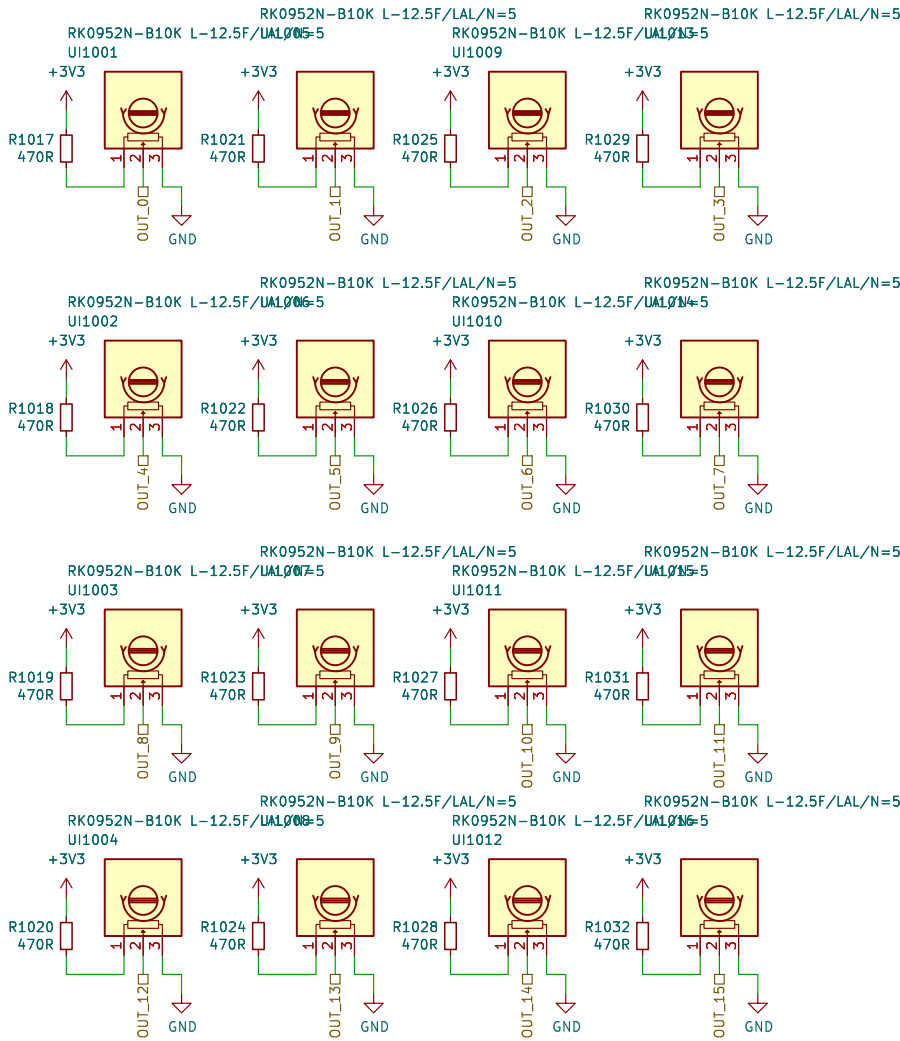


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File: UI_POT.kicad_sch

Title:

Size: A4

Date:

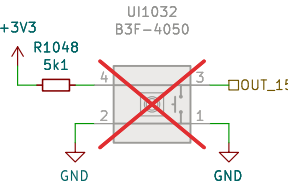
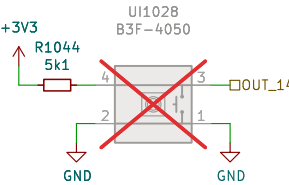
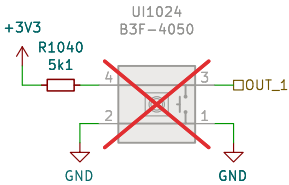
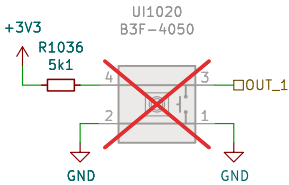
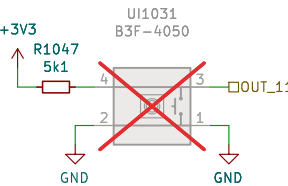
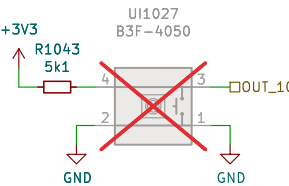
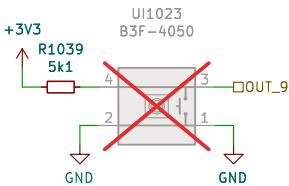
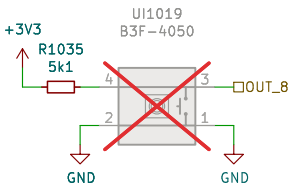
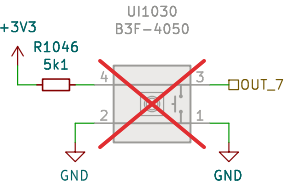
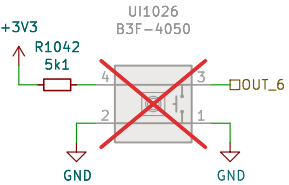
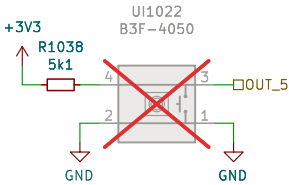
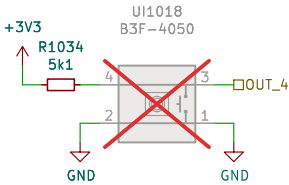
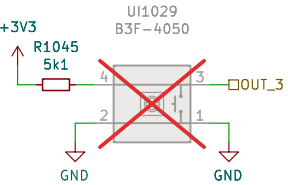
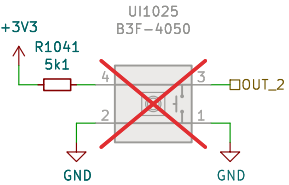
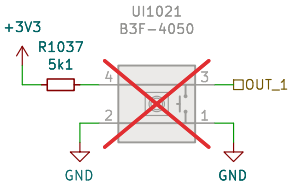
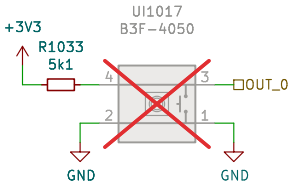
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Simulation:
<http://tinyurl.com/y229mty4>



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File: UI_BUTTON.kicad_sch

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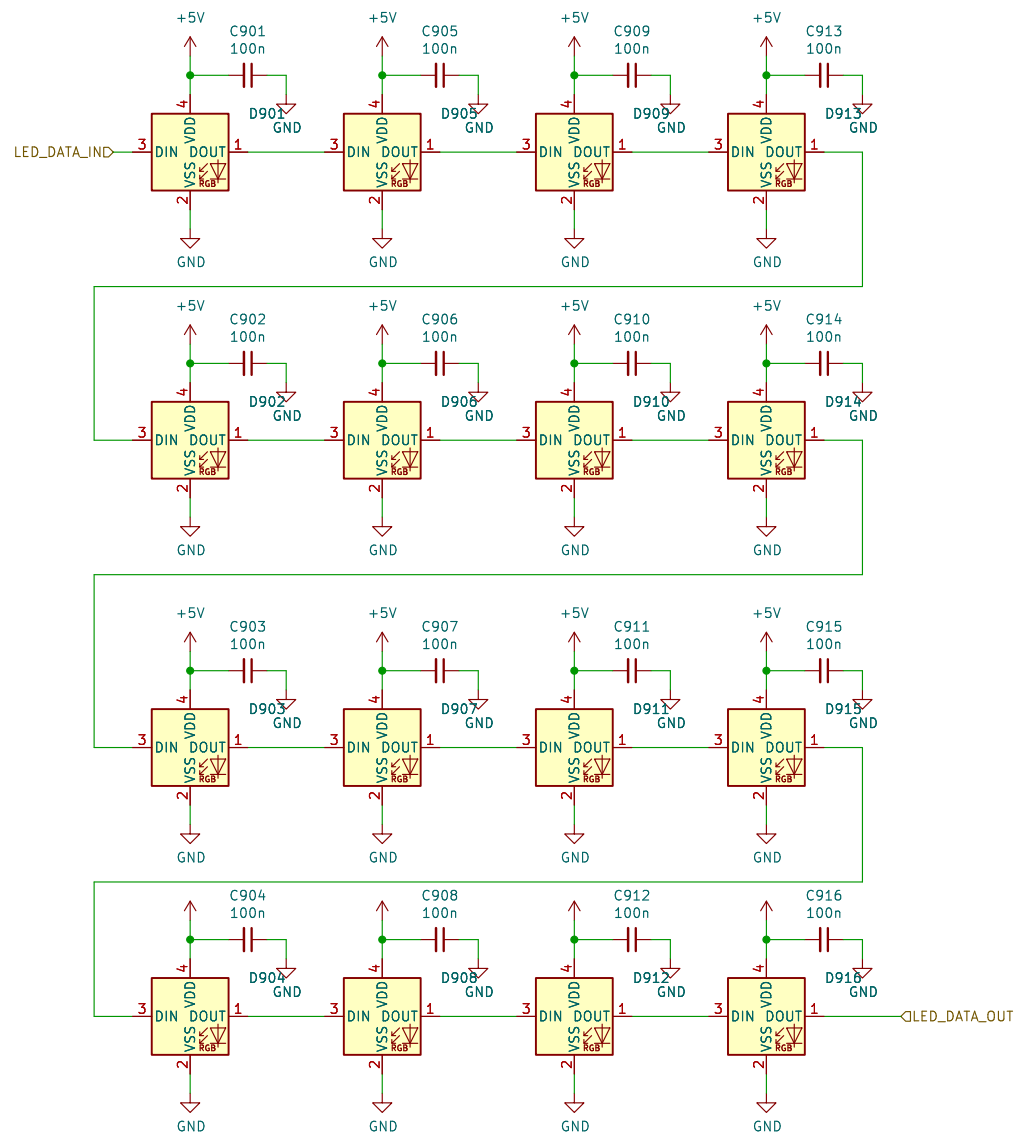
Size: A4
KiCad E.D.A. 9.0.6

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Sheet: /UI_LED/
File: UI_LED.kicad_sch

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Size: A4

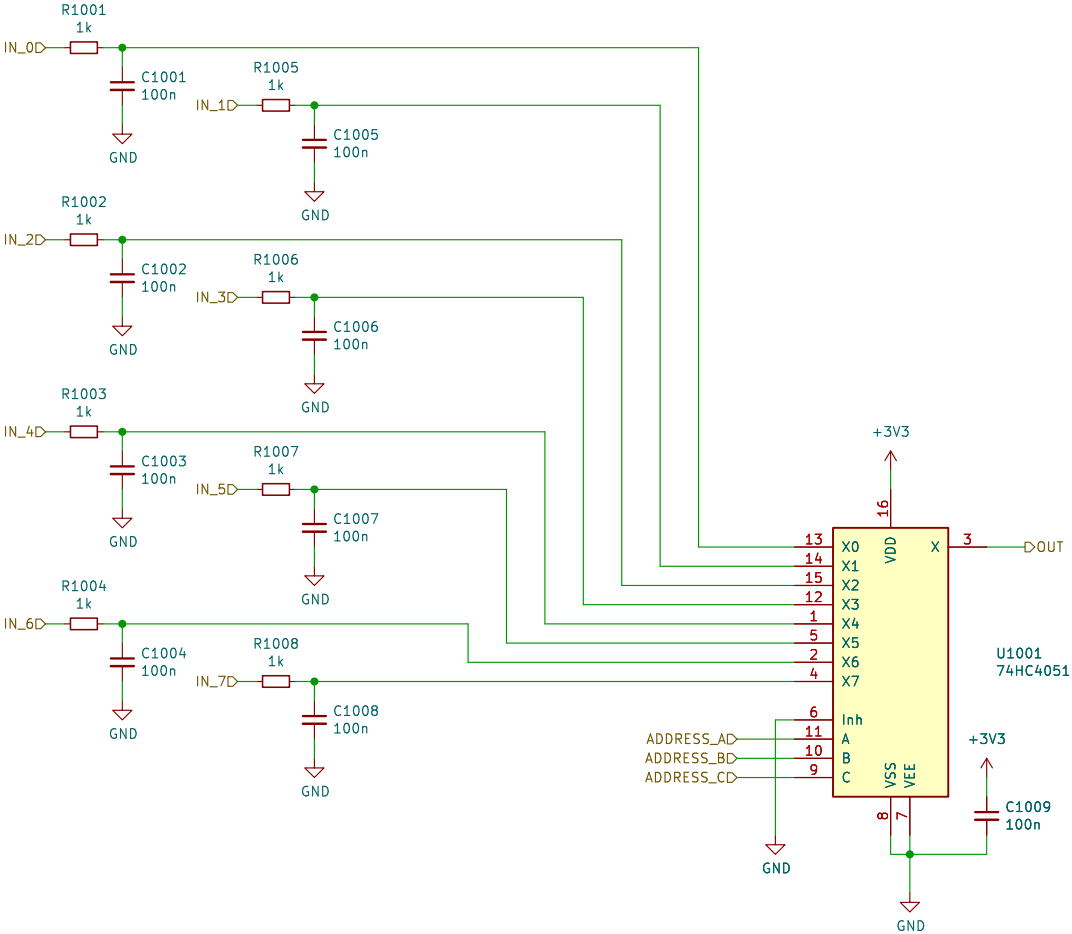
Date:

KiCad E.D.A. 9.0.6

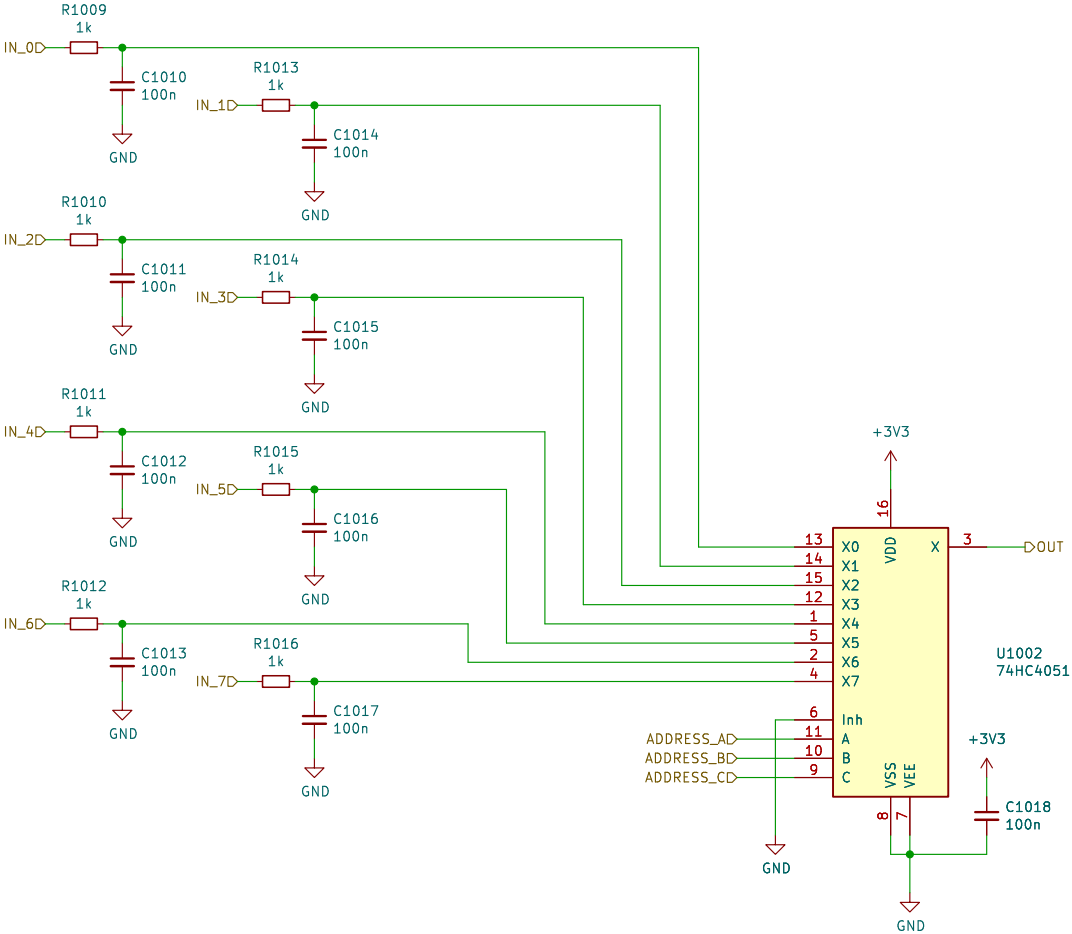
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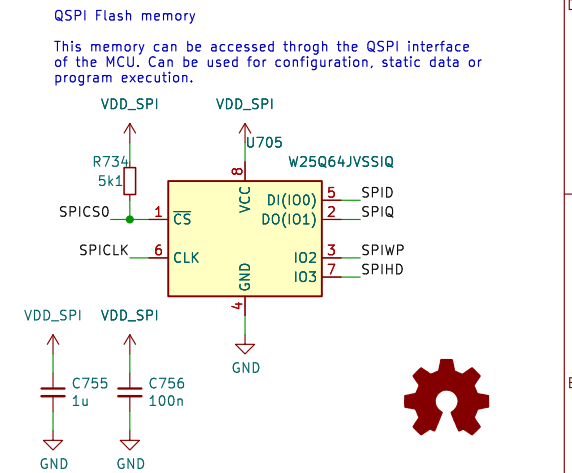
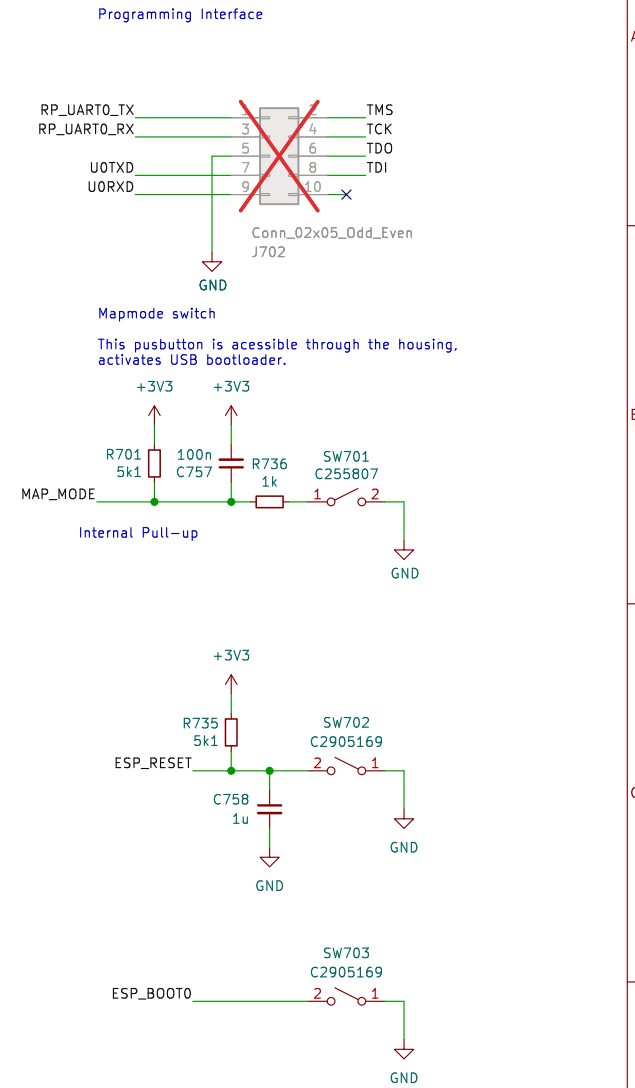
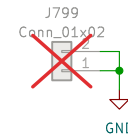
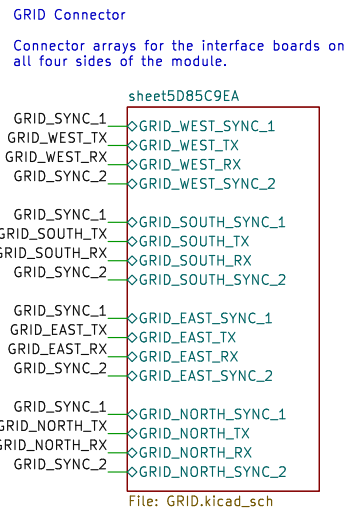
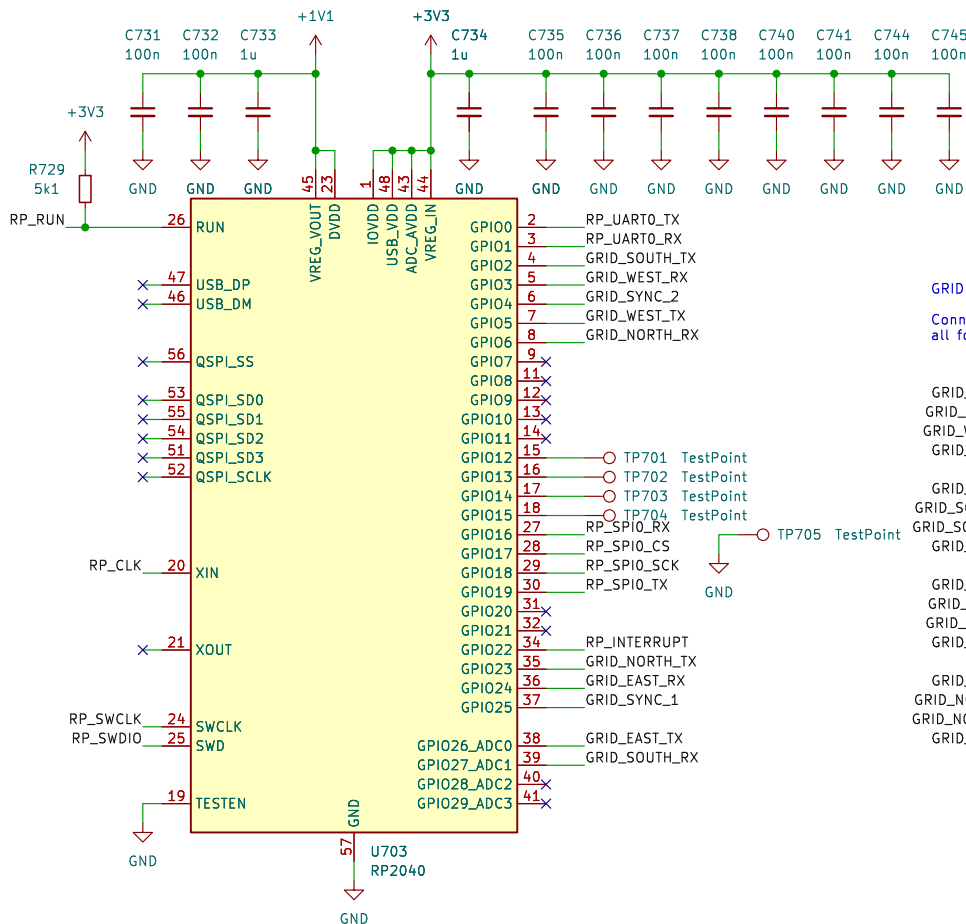
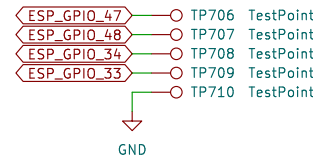
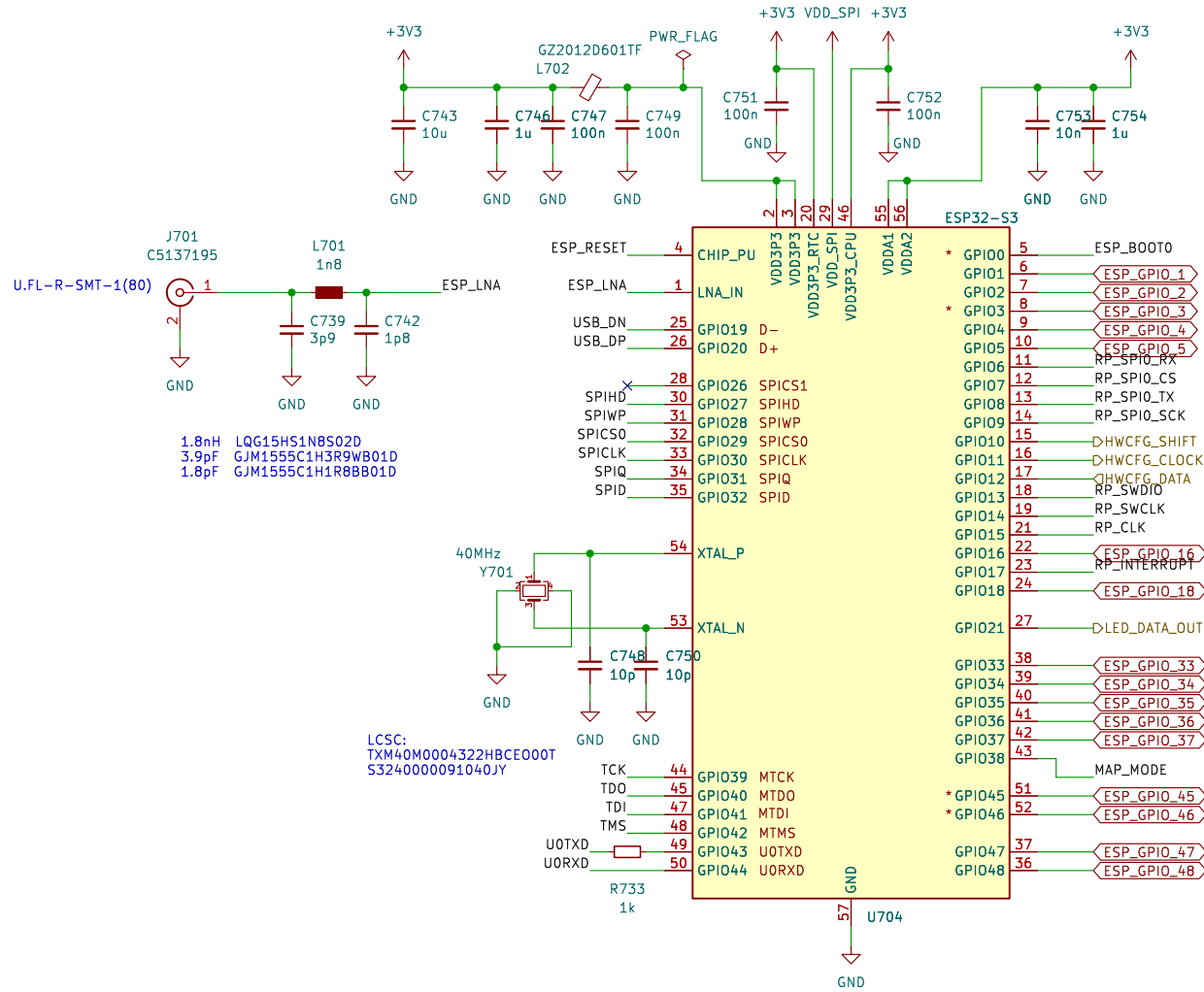
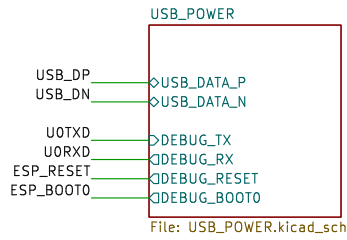
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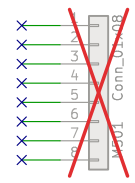
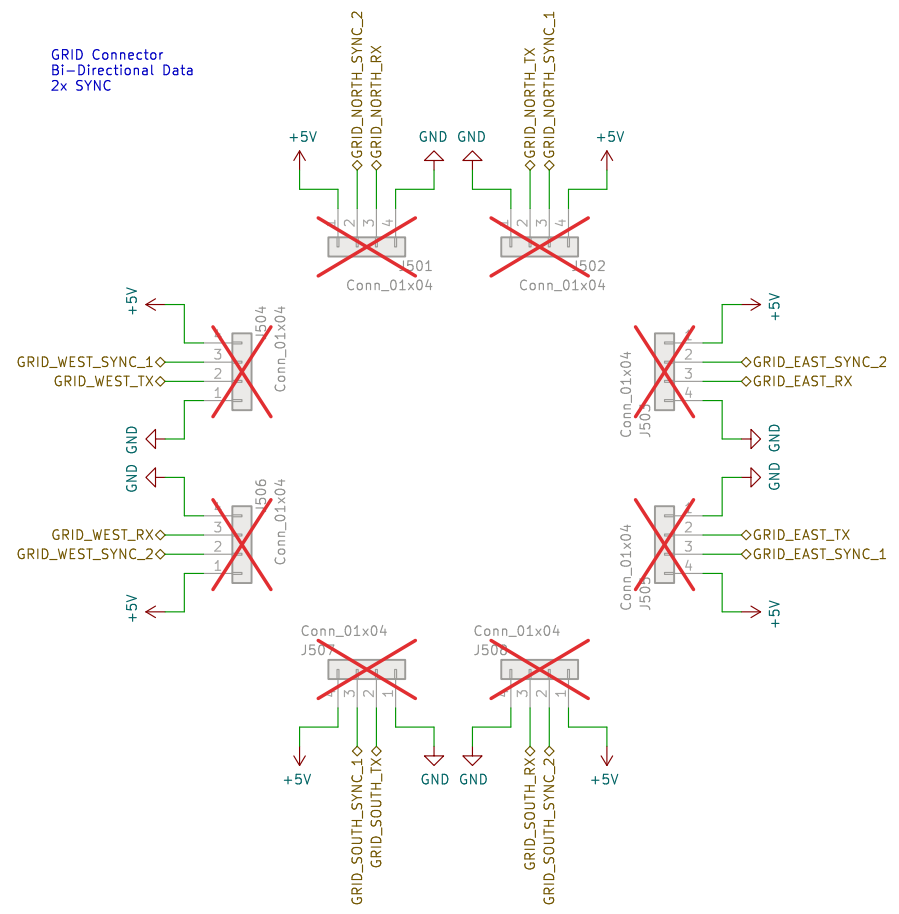
700



500

GRID Connector
Bi-Directional Data
2x SYNC

Board Mounting Pattern



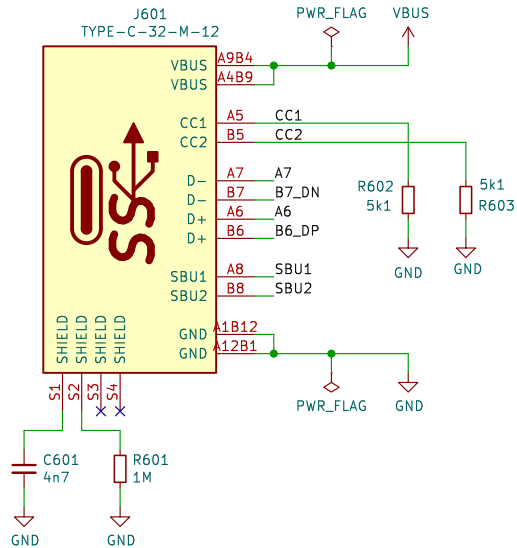
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Size: A4	Date:	Rev:	
KiCad E.D.A. 9.0.6		Id: 8/10	

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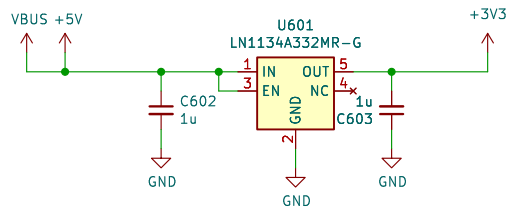
USB Port ESD Prot.

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



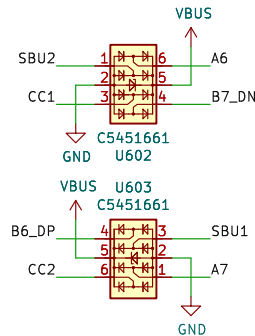
3V3 LDO

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

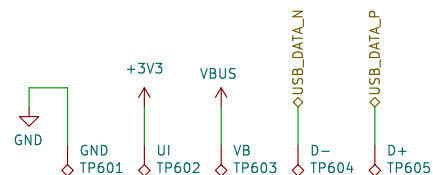


ESD Prot.

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

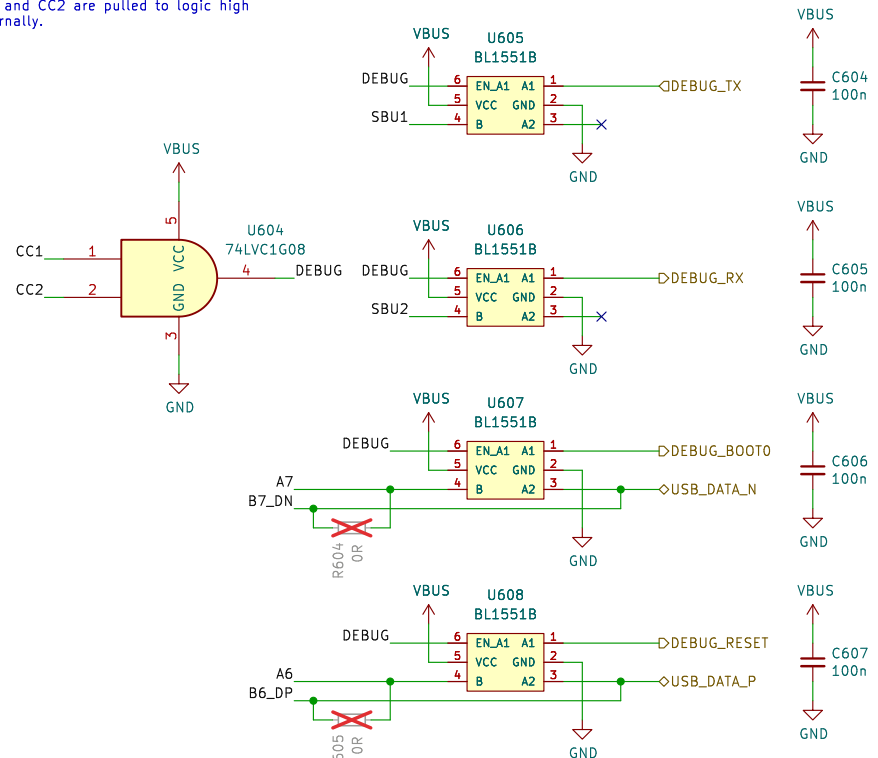


Testpoints



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

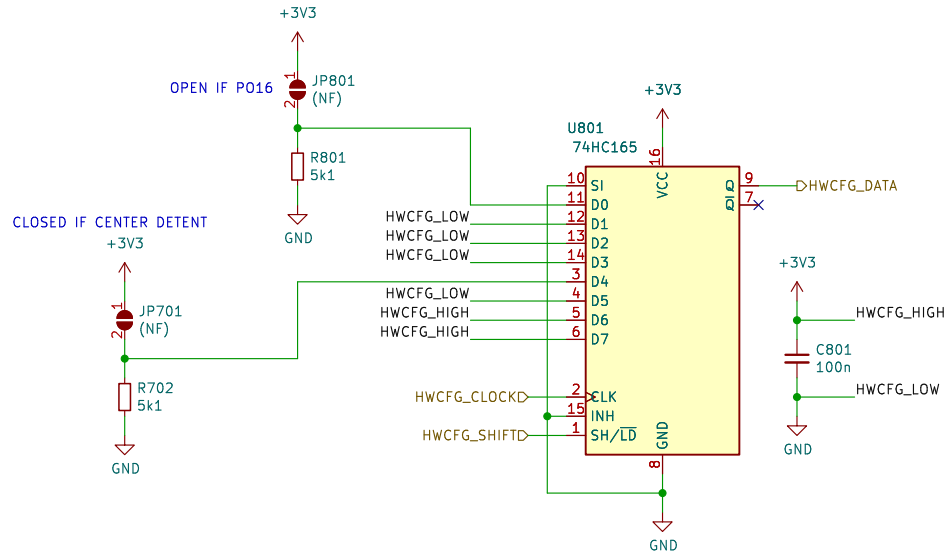
Date:

KiCad E.D.A. 9.0.6

Rev:

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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.

4b'Model + 4b'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
KiCad E.D.A. 9.0.6

Date:

Rev:

Id: 10/10