

Sheet: /UI_POT_BTN/
File: UI_POT_BTN.kicad_sch

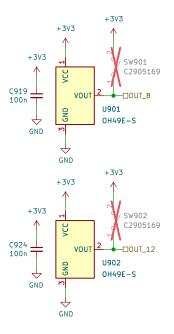
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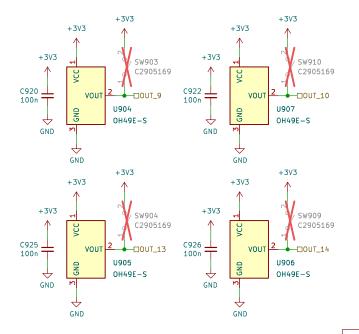
 Size: A4
 Date:
 Rev:

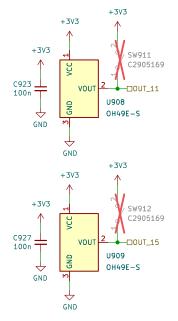
 KiCad E.D.A. 8.0.6
 Id: 2/20

Simulation:

http://tinyurl.com/y229mty4





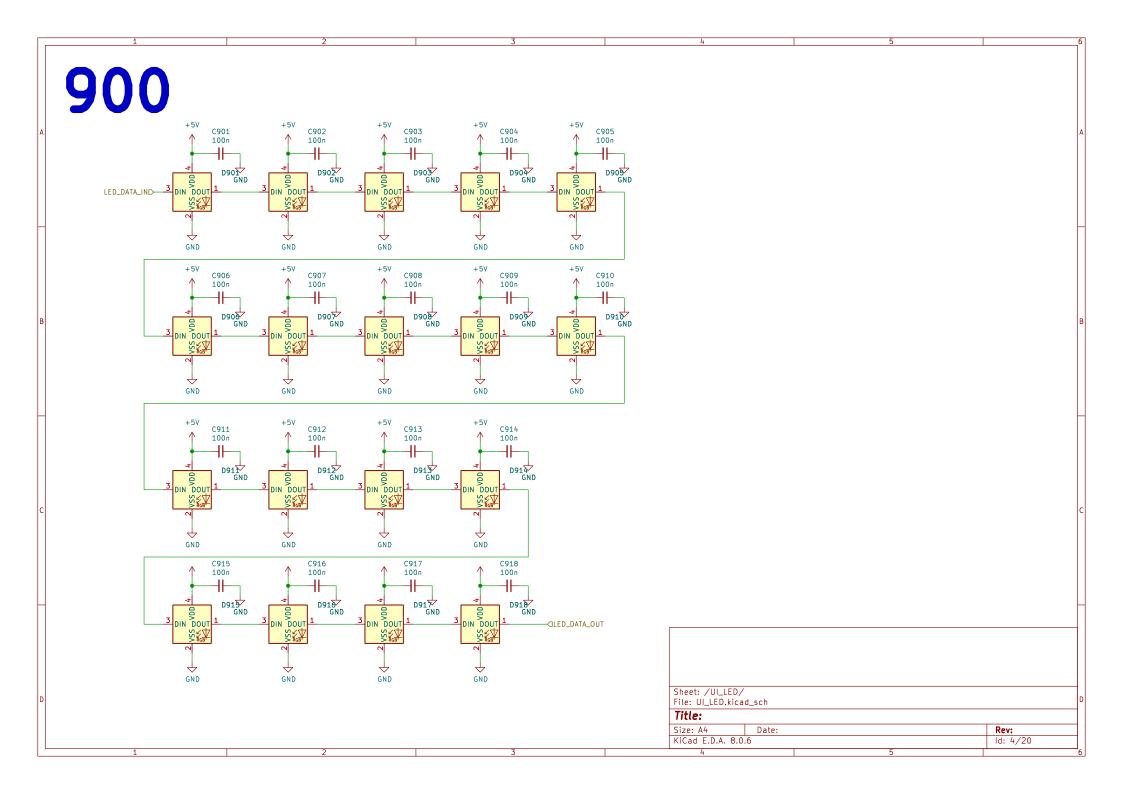


Sheet: /UI_BUTTON/
File: UI_BUTTON.kicad_sch

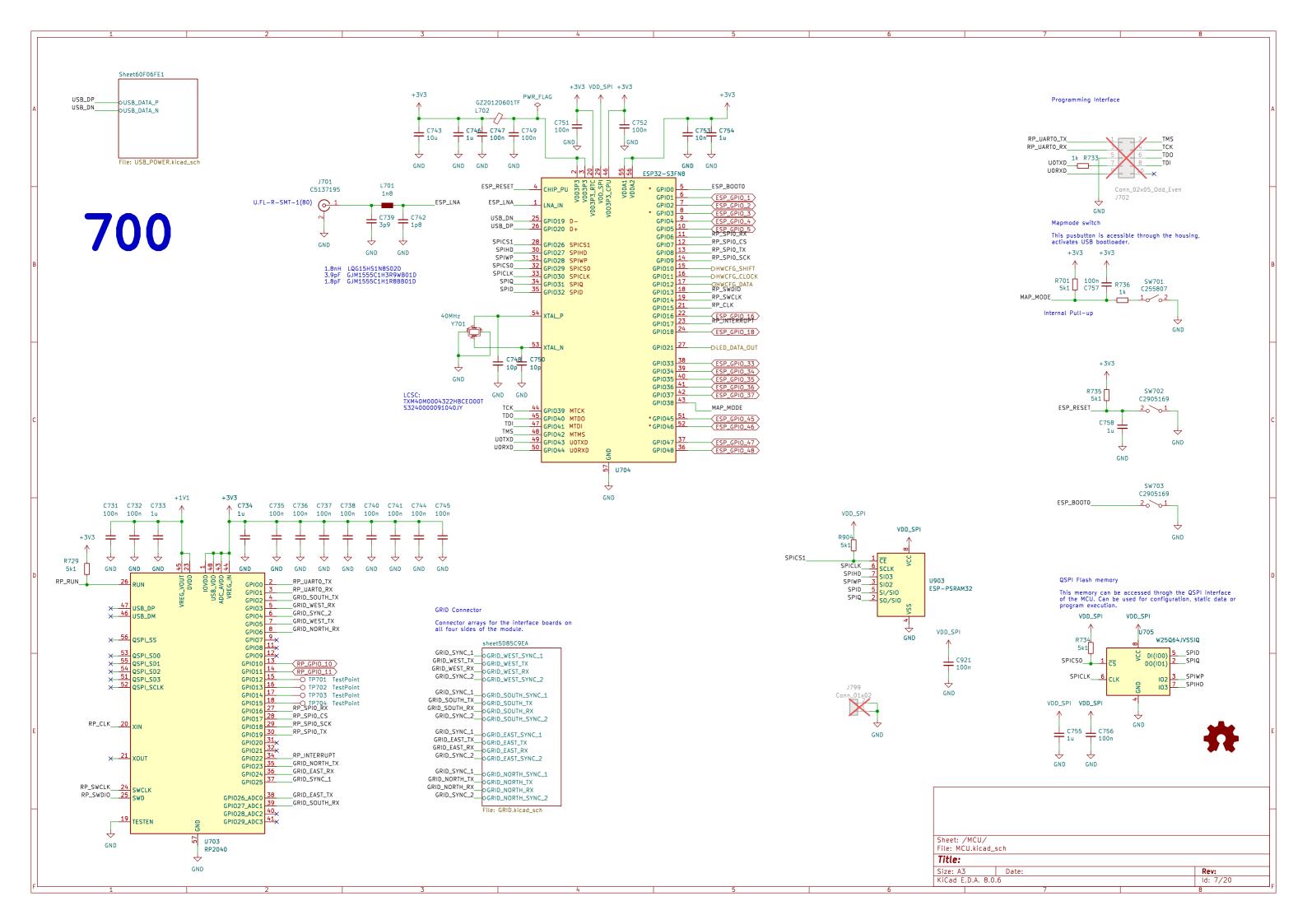
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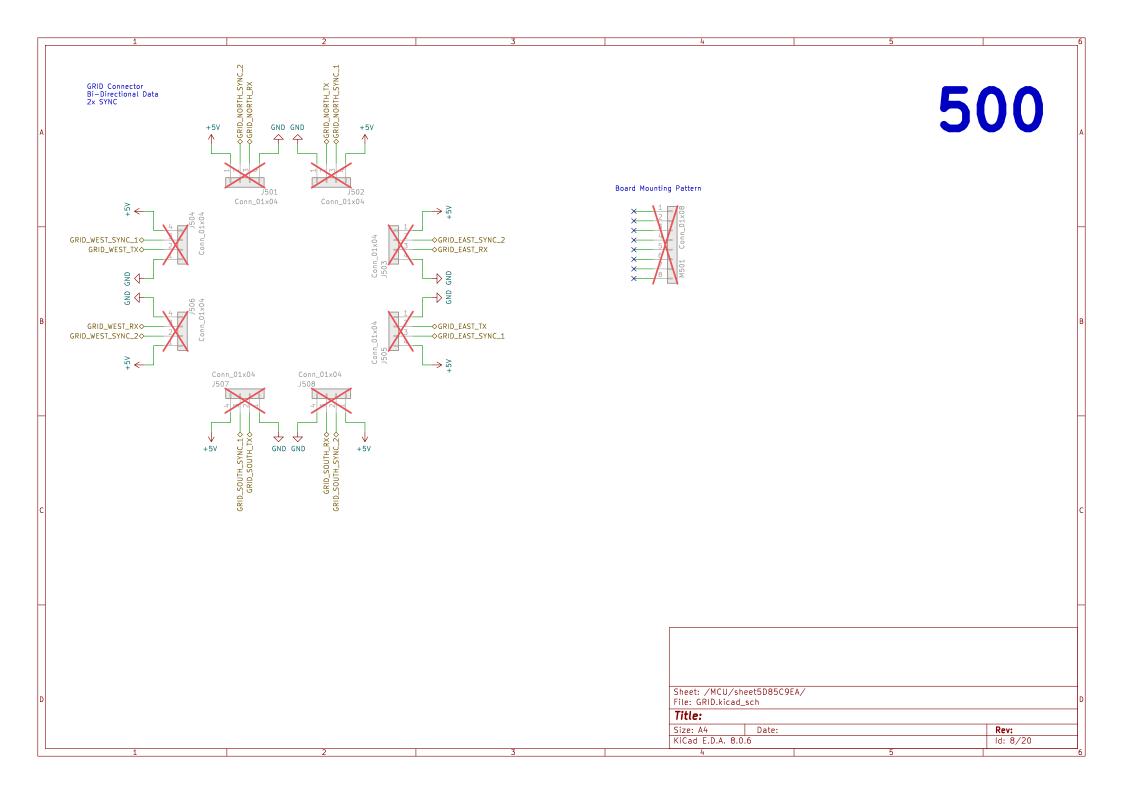
 Size: A4
 Date:
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 Id: 3/20

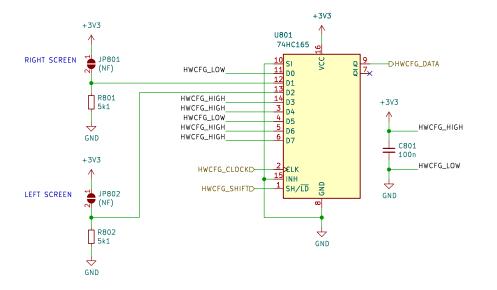


1000 R1001 1k C1001 1k C1005 GND R1002 1k GND IN_2D-----R1006 C1002 1k C1006 GND R1003 GND IN_4D-----+3٧3 R1007 C1003 1 k + C1007 100n 13 X0 Q2 X1 X1 X1 X2 X2 X3 X4 X4 X5 X5 X5 X6 X7 GND _DOUT R1004 GND 1k IN_6D-----R1008 C1004 U1001 74HC4051 1 k C1008 100n 11 10 9 GND ADDRESS_AD +3V3 ADDRESS_BD-VSS ADDRESS_CD-GND + C1009 GND GND Sheet: /Sheet5D7C8BFD/ File: UI_MUX.kicad_sch Title: Size: A4 Date: KiCad E.D.A. 8.0.6 ld: 5/20 1000 R1009 1k C1010 1k C1014 GND R1010 1k GND IN_2D-----C1011 1k C1015 GND R1011 GND 1k IN_4D-----+3٧3 R1015 C1012 1 k + C1016 100n 13 14 15 12 1 5 2 GND X0 8 _DOUT R1012 X2 GND 1 k Х3 IN_6D-----C1013 1k X5 U1002 74HC4051 C1017 100n 11 10 9 GND ADDRESS_AD +3V3 ADDRESS_BD-VSS ADDRESS_CD-GND + C1018 GND Sheet: /sheet5D8763D6/ File: UI_MUX.kicad_sch Title: Size: A4 Date: KiCad E.D.A. 8.0.6 ld: 6/20





600 ESD Diodes ESD protection for all of the externally accessible nets. \Diamond TP601 ♦ TP602 ♦ TP603 ♦ TP604 GND VB VBUS U601 C5451661 VBUS → USB_DATA_P --◇USB_DATA_P USB_DATA_N♦ ->USB_DATA_N GND GND +3V3 LDO Regulators Regulators for generating independent power rails for the microcontroller and the user interface. PWR_FLAG +3V3 PWR_FLAG VBUS VBUS +5V U602 LN1134A332MR-G GZ2012D601TF L601 J601 TYPE-C-32-M-12 OUT GND C601 VBUS TP605 A4B9 VBUS GND CC1 GND GND ->USB_DATA_N -◇USB_DATA_P **₩**GND GND SBU1 5k1 5k1 PWR_FLAG B8 X SBU2 R601 R602 GND 41B12 GND 412B1 GND + C603 R603 GND GND Sheet: /MCU/Sheet60F06FE1/ File: USB_POWER.kicad_sch Title: Size: A4 Date: Rev: KiCad E.D.A. 8.0.6 ld: 9/20



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
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:

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BACKLIGHT____BACKLIGHT_PWM

 CS1D
 CS1

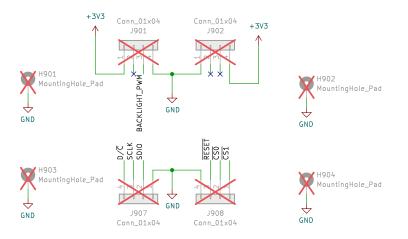
 CS0D
 CS0

 D/CD
 D/C

 SCLKD
 SCLK

 SDIOD
 SDIO

RESET





Sheet: /UI_DISPLAY/
File: UI_DISPLAY.kicad_sch

Title:

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