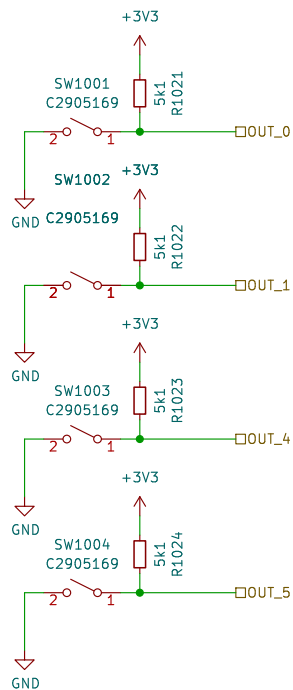
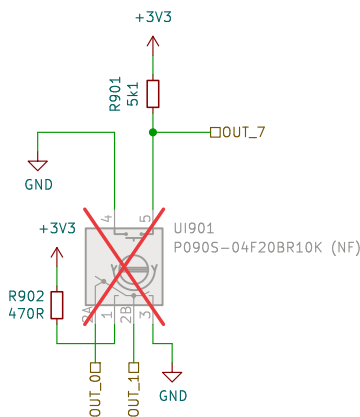
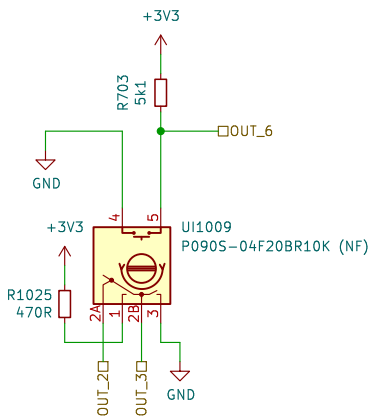


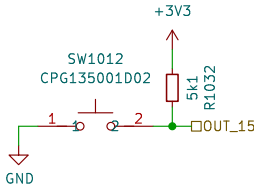
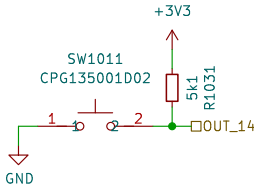
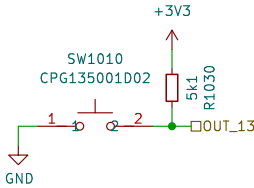
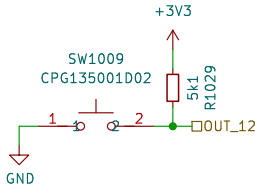
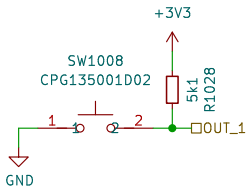
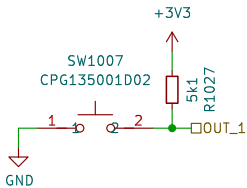
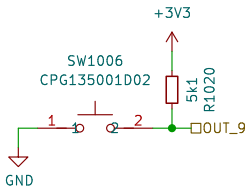
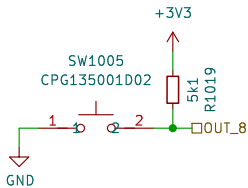
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Size: A4	Date:	Rev:
KiCad E.D.A. kicad-cli 7.0.11+1		Id: 2/11

1000

Simulation:
<http://tinyurl.com/y229mt4>



Sheet: /UI_BUTTON/ File: UI_BUTTON.kicad_sch		
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KiCad E.D.A. kicad-cli 7.0.11+1		Id: 3/11

900



Sheet: /UI_LED/
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KiCad E.D.A. kicad-cli 7.0.11+1

Date:

Rev:
Id: 4/11

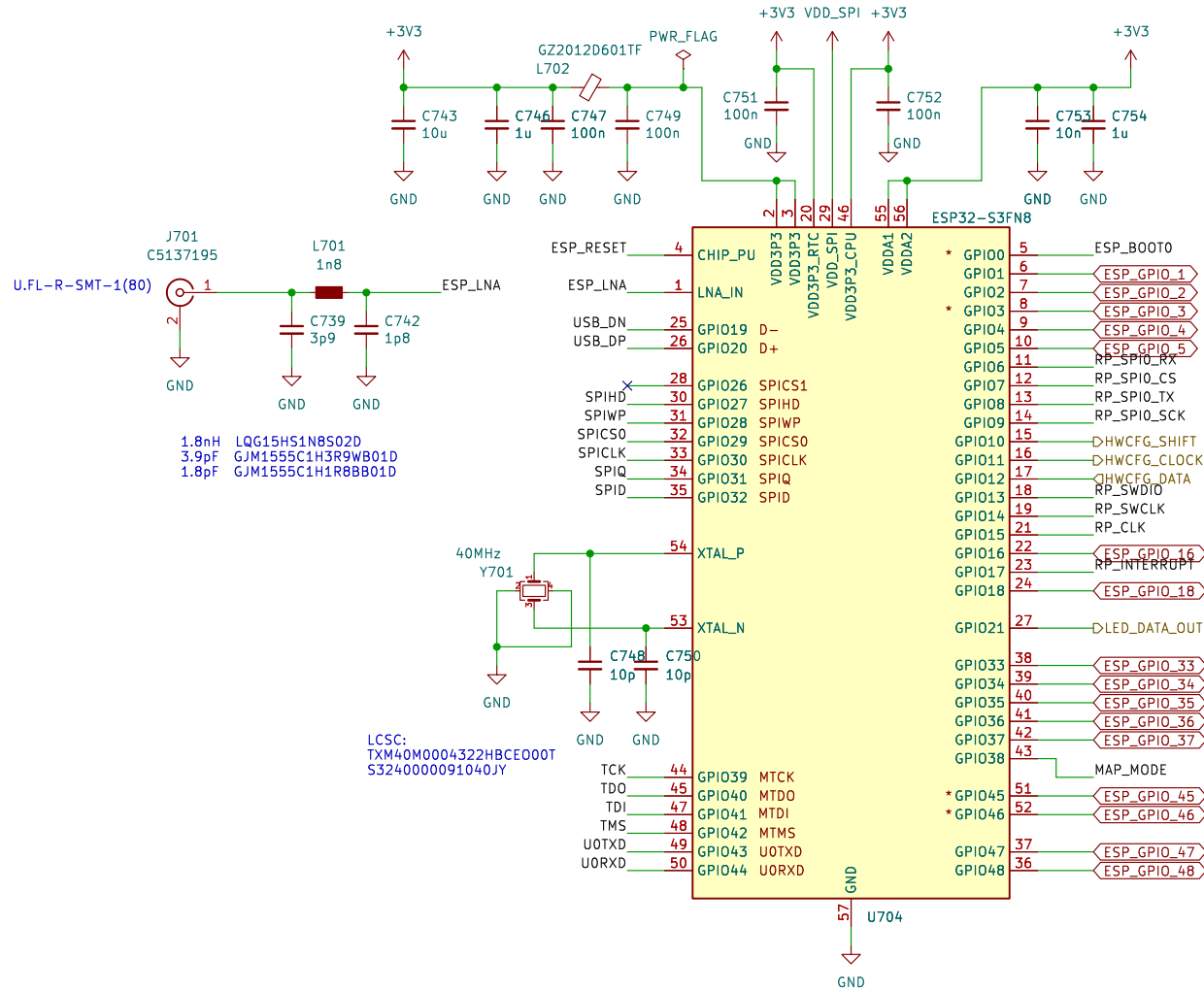
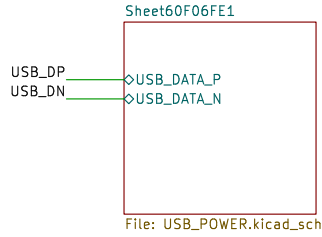
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1000



700



500

GRID Connector
Bi-Directional Data
2x SYNC



Board Mounting Pattern



Sheet: /MCU/sheet5D85C9EA/ File: GRID.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad-cli 7.0.11+1		Id: 8/11

600

ESD Diodes

ESD protection for all of the externally accessible nets.



+3V3 LDO Regulators

Regulators for generating independent power rails for the microcontroller and the user interface.



Sheet: /MCU/Sheet60F06FE1/
File: USB_POWER.kicad_sch

Title:

Size: A4

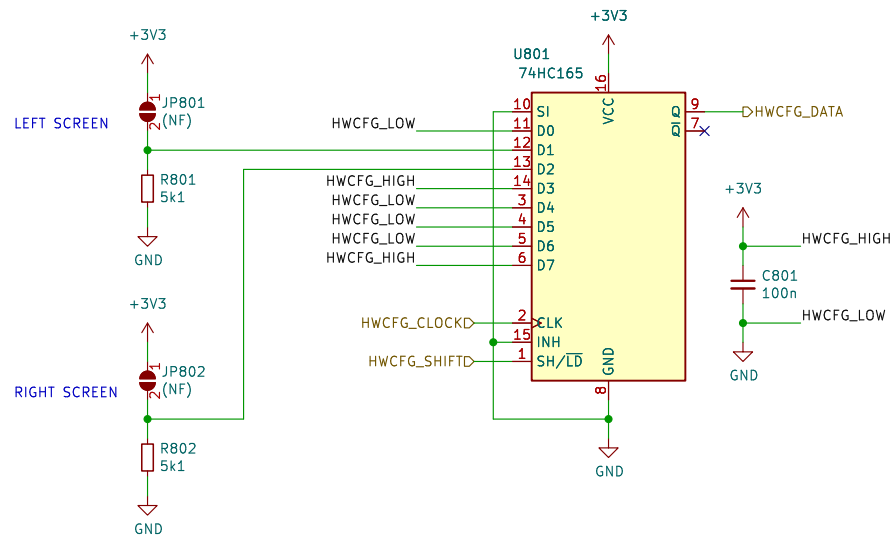
Date:

KiCad E.D.A. kicad-cli 7.0.11+1

Rev:

Id: 9/11

800



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:

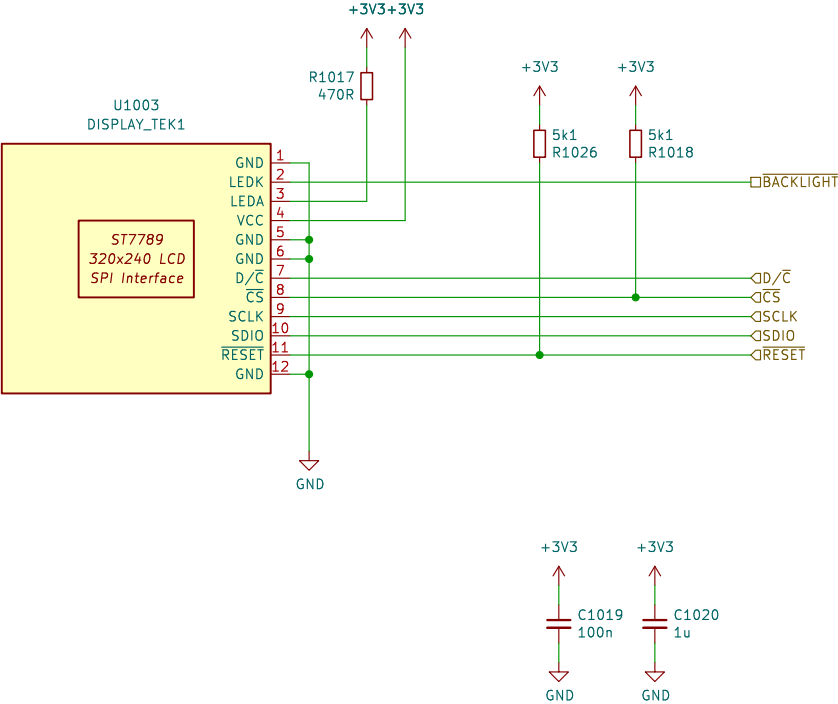
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KiCad E.D.A. kicad-cli 7.0.11+1

Date:

Rev:

Id: 10/11

1000



Sheet: /UI_DISPLAY/
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Title:

Size: A4
KiCad E.D.A. kicad-cli 7.0.11+1

Date:

Rev:
Id: 11/11