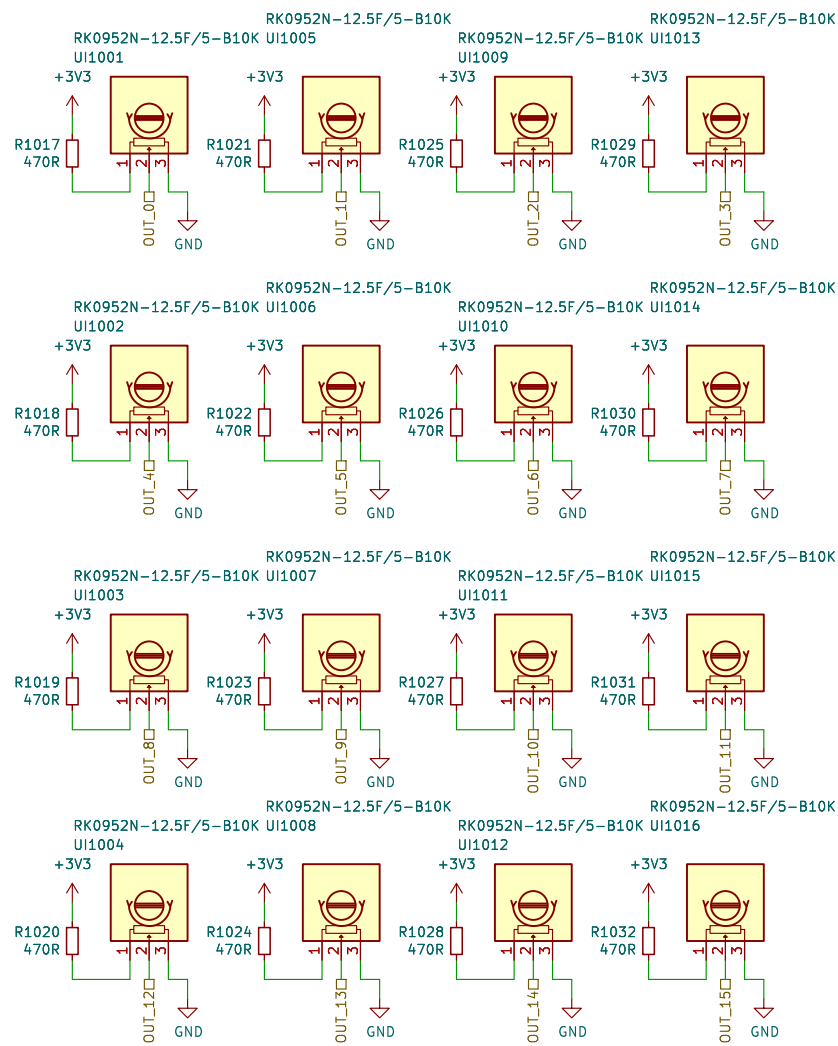




1000



Sheet: /UI_POT/
File: UI_POT.kicad_sch

Title:

Size: A4

Date:

KiCad E.D.A. 8.0.6

Rev:

Id: 2/10

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



Sheet: /UI_BUTTON/
File: UI_BUTTON.kicad_sch

Title:

Size: A4

Date:

KiCad E.D.A. 8.0.6

Rev:

Id: 3/10

900



Sheet: /UI_LED/
File: UI_LED.kicad_sch

Title:

Size: A4

Date:

KiCad E.D.A. 8.0.6

Rev:

Id: 4/10

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| Title: | | |
| Size: A4 | Date: | Rev: |
| KiCad E.D.A. 8.0.6 | | Id: 8/10 |

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| Size: A4 | Date: | Rev: |
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| 6 | Id: 8/10 |
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Id: 8/10

6

600

ESD Diodes
ESD protection for all of the externally accessible nets.

VBUS
USB_DATA_N
USB_DATA_P
GND

TP601
GND
TP602
VB
VBUS
TP603
D-
TP604
D+
USB_DATA_P
USB_DATA_N

+3V3 LDO Regulators
Regulators for generating independent power rails for the microcontroller and the user interface.

VBUS +5V
GZ2012D601TF
L601
PWR_FLAG
C601
1u
GND
U602
LN1134A332MR-G
IN
EN
OUT
NC
GND
5
4
1u
C602
TP605
UI
+3V3
GND

J601
TYPE-C-32-M-12
VBUS
VBUS
A9B4
A4B9
CC1
CC2
A5
B5
D-
A7
B7
D-
A6
B6
D+
SBU1
A8
B8
SBU2
A1B12
A12B1
GND
GND
PWR_FLAG
GND
R601
5k1
R602
5k1
GND
C603
4n7
R603
1M
GND
GND

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

Title:

Size: A4 Date: Rev:

KiCad E.D.A. 8.0.6 Id: 9/10

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|--------------------|-------|-------------|
| Title: | | |
| Size: A4 | Date: | Rev: |
| KiCad E.D.A. 8.0.6 | | Id: 9/10 |

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:

Size: A4

Date:

KiCad E.D.A. 8.0.6

Rev:

Id: 10/10