

Sheet: /UI_ENC/ENCODER_8/
File: UI_ENC_FILTER.kicad_sch

Title:

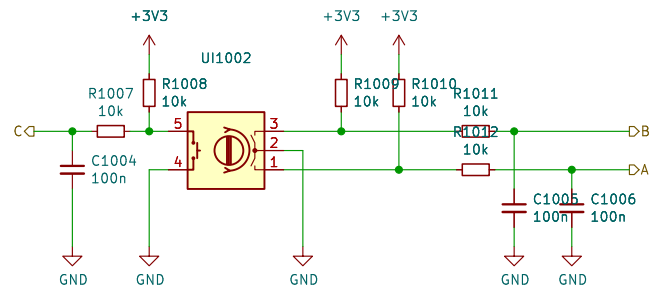
Size: A4

Date:

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KiCad E.D.A. 8.0.3

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Sheet: /UI_ENC/ENCODER_11/
File: UI_ENC_FILTER.kicad_sch

Title:

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Id: 3/23

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Sheet: /UI_LED/
File: UI_LED.kicad_sch

Title:

Size: A4
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Sheet: /UI_ENC/ENCODER_5/
File: UI_ENC_FILTER.kicad_sch

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Size: A4

Date:

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Id: 5/23

Sheet: /UI_ENC/ENCODER_12/
File: UI_ENC_FILTER.kicad_sch

Title:

Size: A4	Date:
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Date:

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Id: 6/23



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Size: A4	Date:	Rev:
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Size: A4	Date:	Rev:
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ESD Diodes
ESD protection for all of the externally accessible nets.

VBUS
USB_DATA_N
USB_DATA_P
GND

TP601 GND
TP602 VB
TP603 D-
TP604 D+

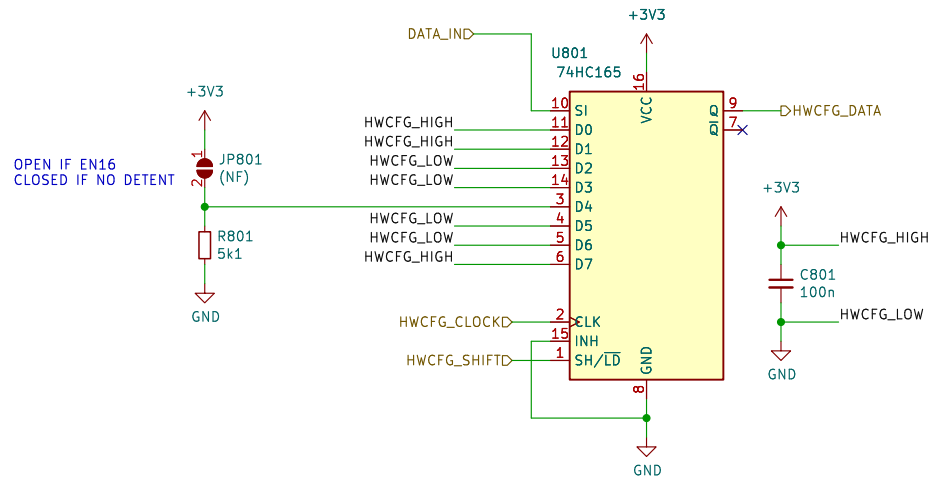
+3V3 LDO Regulators
Regulators for generating independent power rails for the microcontroller and the user interface.

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

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

Title:		
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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

Date:

KiCad E.D.A. 8.0.3

Rev:

Id: 10/23



Sheet: /UI_ENC/ENCODER_0/
File: UI_ENC_FILTER.kicad_sch

Title:

Size: A4

Date:

Rev:

KiCad E.D.A. 8.0.3

Id: 11/23



Sheet: /UI_ENC/ENCODER_6/
File: UI_ENC_FILTER.kicad_sch

Title:

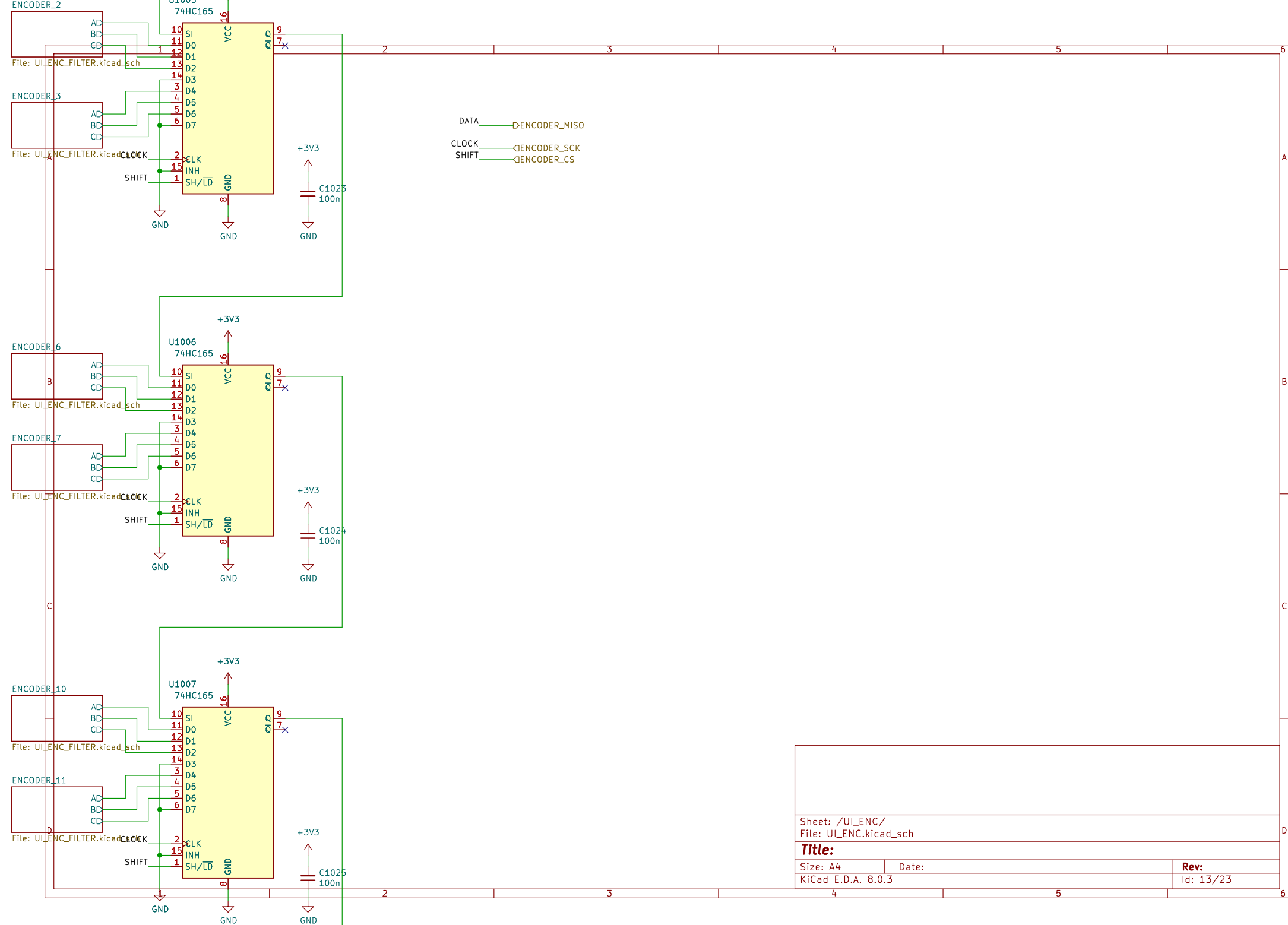
Size: A4

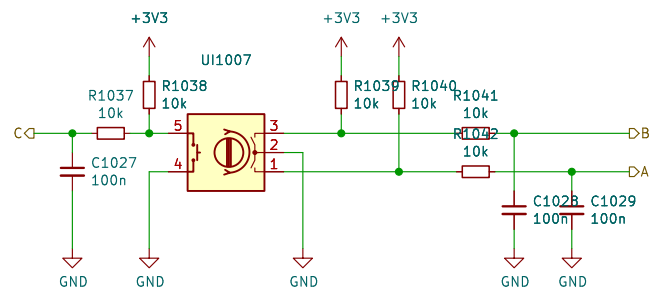
Date:

Rev:

KiCad E.D.A. 8.0.3

Id: 12/23





Sheet: /UI_ENC/ENCODER_3/
File: UI_ENC_FILTER.kicad_sch

Title:

Size: A4

Date:

Rev:

KiCad E.D.A. 8.0.3

Id: 14/23



Sheet: /UI_ENC/ENCODER_1/
File: UI_ENC_FILTER.kicad_sch

Title:

Size: A4

Date:

Rev:

KiCad E.D.A. 8.0.3

Id: 15/23

Sheet: /UI_ENC/ENCODER_7/
File: UI_ENC_FILTER.kicad_sch

Title:

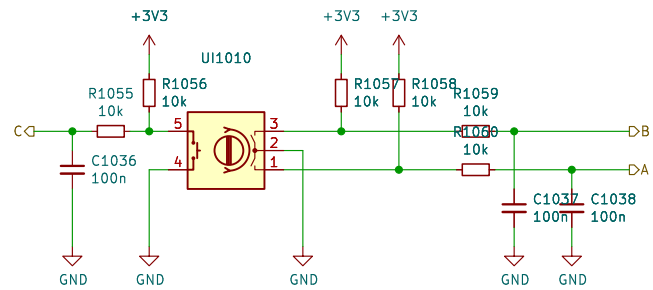
Size: A4

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Size: A4	
KiCad E.D.A. 8.0.3	

Rev:

Id: 16/23



Sheet: /UI_ENC/ENCODER_14/
File: UI_ENC_FILTER.kicad_sch

Title:

Size: A4

Date:

Rev:

KiCad E.D.A. 8.0.3

Id: 17/23



Sheet: /UI_ENC/ENCODER_13/
File: UI_ENC_FILTER.kicad_sch

Title:

Size: A4

Date:

Rev:

KiCad E.D.A. 8.0.3

Id: 18/23



Sheet: /UI_ENC/ENCODER_10/
File: UI_ENC_FILTER.kicad_sch

Title:

Size: A4

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Rev:

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Sheet: /UI_ENC/ENCODER_2/
File: UI_ENC_FILTER.kicad_sch

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Size: A4

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Rev:

KiCad E.D.A. 8.0.3

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Sheet: /UI_ENC/ENCODER_4/
File: UI_ENC_FILTER.kicad_sch

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Size: A4

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Rev:

KiCad E.D.A. 8.0.3

Id: 22/23



Sheet: /UI_ENC/ENCODER_9/
File: UI_ENC_FILTER.kicad_sch

Title:

Size: A4

Date:

Rev:

KiCad E.D.A. 8.0.3

Id: 23/23