Power

USB_+
USB_−

File: power.kicad_sch

+3V3

C107 100n   C109 100n   C111 100n   C113 100n
GND

+1V1
C18 100n   C105 100n   C106 1u
GND

C108 1u   C110 100n   C112 100n   C114 100n   C115 10u
GND

TP104 TP105
GND

+3V3

C101 100n

U101

R101 DNP

VCC 8
1 CS
6 CLK
5 DI(IO0)
2 DO(IO1)
3 IO2
7 IO3
GND 4

W25Q16JVSSIQ

GND   GND

R102 1k

SW101 B3U−1000P
Boot Select

GND

30p C102
Y101 X322512MSB4SI
30p C103
1k R105

GND

TP101
TP102
TP103

GND   GND

26 RUN
47 USB_DP
46 USB_DM
R103 27.4
27.4 R104

56 QSPI_SS
53 QSPI_SD0
55 QSPI_SD1
54 QSPI_SD2
51 QSPI_SD3
52 QSPI_SCLK

20 XIN
21 XOUT

24 SWCLK
25 SWD

19 TESTEN

45 VREG_VOUT
23 DVDD
1 IOVDD
48 USB_VDD
43 ADC_AVDD
44 VREG_IN

GPIO0 2
GPIO1 3
GPIO2 4
GPIO3 5
GPIO4 6
GPIO5 7
GPIO6 8
GPIO7 9
GPIO8 11
GPIO9 12
GPIO10 13
GPIO11 14
GPIO12 15
GPIO13 16
GPIO14 17
GPIO15 18
GPIO16 27
GPIO17 28
GPIO18 29
GPIO19 30
GPIO20 31
GPIO21 32
GPIO22 34
GPIO23 35
GPIO24 36
GPIO25 37

GPIO26_ADC0 38
GPIO27_ADC1 39
GPIO28_ADC2 40
GPIO29_ADC3 41

GND 57

U102 RP2040

GND   GND   GND

TP106
TP107
TP108
TP109
GND

+3V3

SDA
SCL
VCC
GND
U103

SwitchMatrix
ROW3
COL8
COL4
COL0
ROW2
COL9
COL5
COL1
ROW1
COL10
COL6
COL2
ROW0
COL11
COL7
COL3

File: SwitchMatrix.kicad_sch

+5V

DIN VDD OUT
VSS
WS2812B−B/W D101

DIN VDD OUT
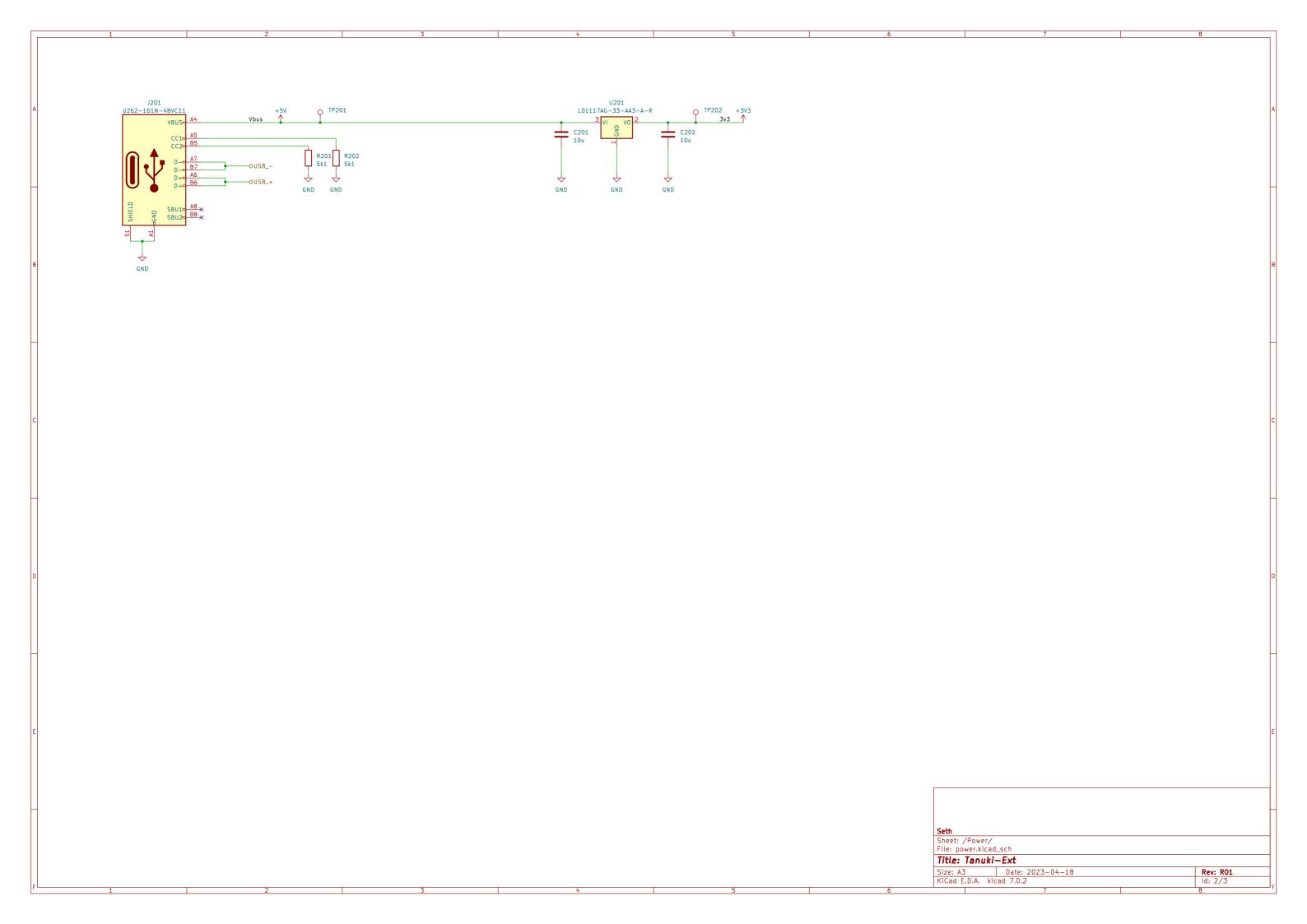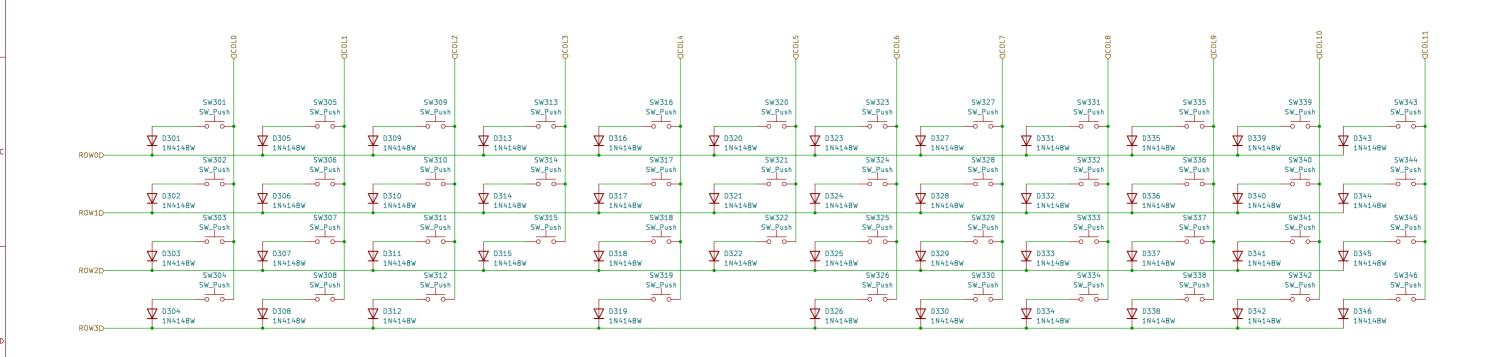VSS
WS2812B−B/W D102

DIN VDD OUT
VSS
WS2812B−B/W D103

GND

Seth
Sheet: /
File: Tanuki_Ext_PCB.kicad_sch
Title: Tanuki−Ext−Oled
Size: A3   Date: 2023−04−18   Rev: R01
KiCad E.D.A. kicad 7.0.2   Id: 1/3

J201
U262-161N-4BVC11

VBUS A4
CC1 A5
CC2 B5
D- A7
D- B7
D+ A6
D+ B6
SBU1 A8
SBU2 B8

SHIELD
S1
GND A1

GND

Vbus

+5V
TP201

R201 5k1
R202 5k1

GND GND

USB_-
USB_+

U201
LD1117AG-33-AA3-A-R

3 VI VO 2
GND
1

C201 10u

GND

C202 10u

GND GND

TP202 +3V3
3v3