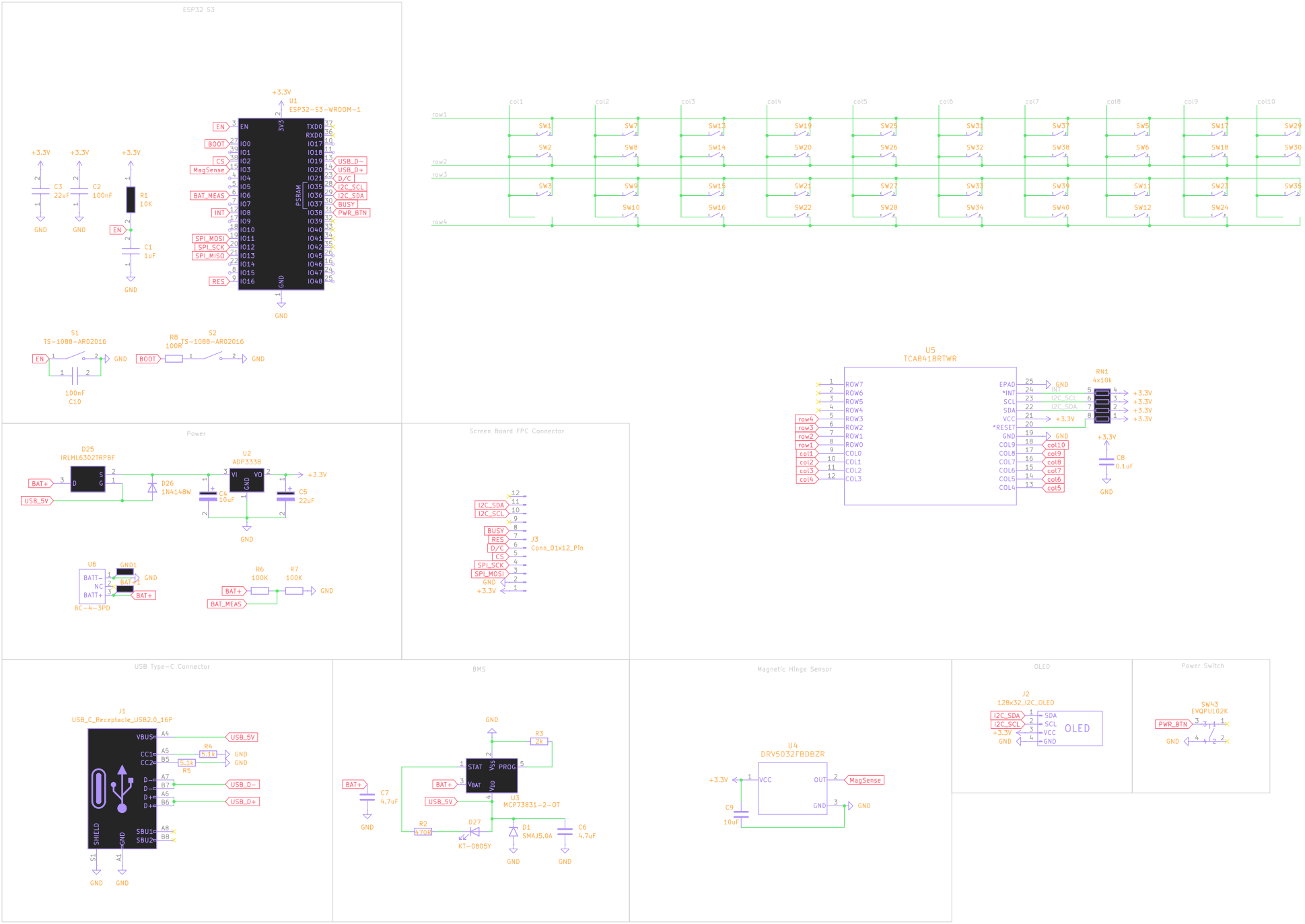
ESP32 S3
U1
ESP32-S3-WROOM-1
+3.3V
EN
BOOT
CS
MagSense
BAT_MEAS
INT
SPI_MOSI
SPI_SCK
SPI_MISO
RES
USB_D-
USB_D+
D/C
I2C_SCL
I2C_SDA
BUSY
PWR_BTN
GND
C3
22uF
C2
100nF
R1
10K
C1
1uF
S1
TS-1088-AR02016
R8
100R
S2
TS-1088-AR02016
C10
100nF
row1
row2
row3
row4
col1
col2
col3
col4
col5
col6
col7
col8
col9
col10
U5
TCA8418RTWR
ROW7
ROW6
ROW5
ROW4
ROW3
ROW2
ROW1
ROW0
COL0
COL1
COL2
COL3
EPAD
*INT
SCL
SDA
VCC
*RESET
COL9
COL8
COL7
COL6
COL5
COL4
RN1
4x10k
C8
0.1uF
Power
D25
IRLML6302TRPBF
D26
1N4148W
U2
ADP338B
C4
10uF
C5
22uF
U6
BC-4-3PD
GND1
BAT_M1
R6
100K
R7
100K
BAT+
USB_5V
BAT_MEAS
Screen Board FPC Connector
J3
Conn_01x12_Pin
USB Type-C Connector
J1
USB_C_Receptacle_USB2.0_16P
VBUS
CC1
CC2
D-
D+
SHIELD
SBU1
SBU2
R4
5.1k
R5
5.1k
BMS
U3
MCP73831-2-OT
STAT
VSS
PROG
VBAT
VDD
R3
2K
C7
4.7uF
R2
470R
D27
KT-0805Y
D1
SMAJ5.0A
C6
4.7uF
Magnetic Hinge Sensor
U4
DRV5032FBDBZR
VCC
OUT
GND
MagSense
C9
10uF
OLED
J2
128x32_I2C_OLED
Power Switch
SW43
EVQPUL02K