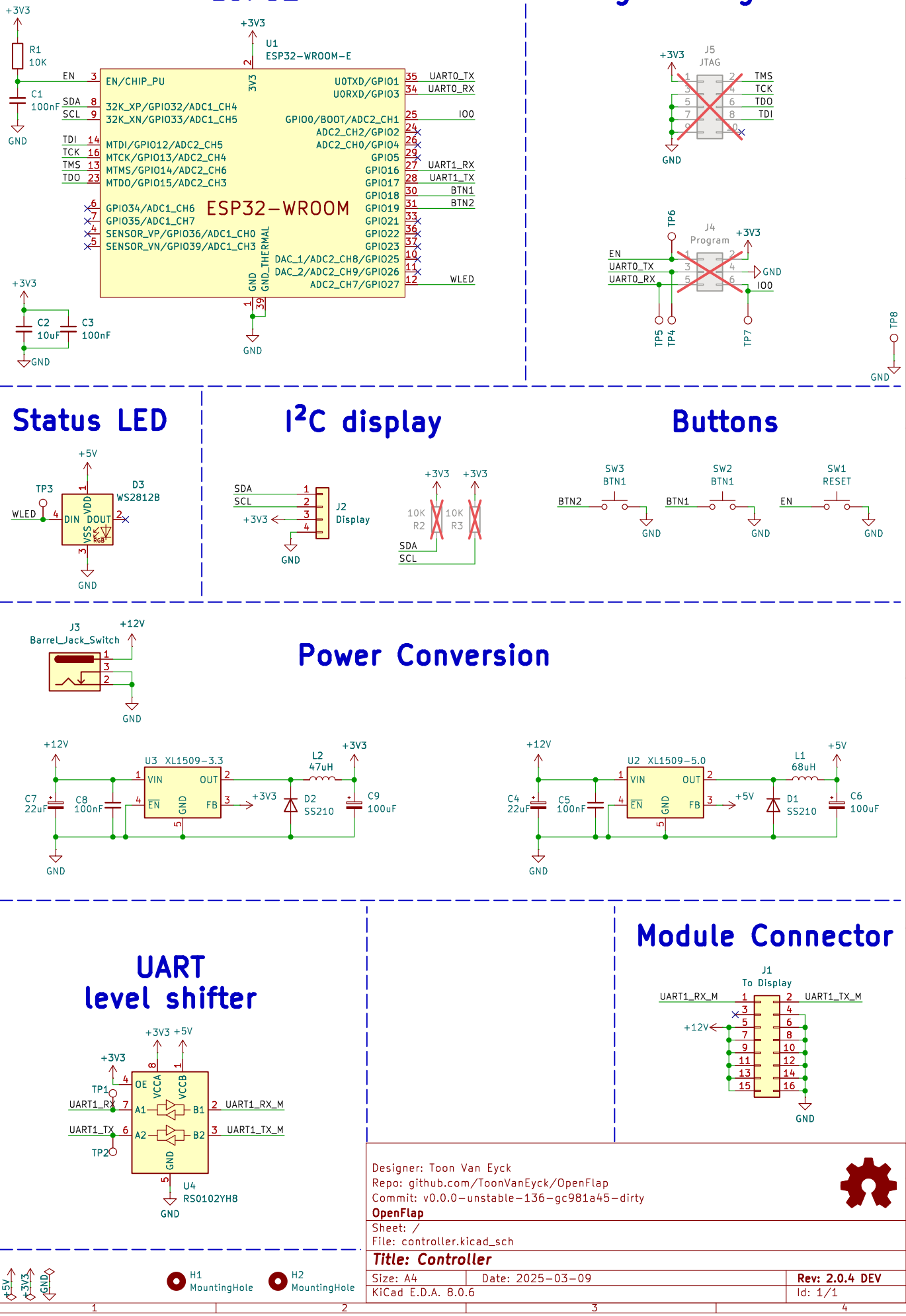
ESP32
Programming & JTAG
Status LED
I²C display
Buttons
Power Conversion
UART
level shifter
Module Connector
ESP32-WROOM
U1
ESP32-WROOM-E
R1
10K
C1
100nF
C2
10uF
C3
100nF
EN
SDA
SCL
TDI
TCK
TMS
TDO
3V3
GND
GND_THERMAL
32K_XP/GPIO32/ADC1_CH4
32K_XN/GPIO33/ADC1_CH5
MTDI/GPIO12/ADC2_CH5
MTCK/GPIO13/ADC2_CH4
MTMS/GPIO14/ADC2_CH6
MTDO/GPIO15/ADC2_CH3
GPIO34/ADC1_CH6
GPIO35/ADC1_CH7
SENSOR_VP/GPIO36/ADC1_CH0
SENSOR_VN/GPIO39/ADC1_CH3
U0TXD/GPIO1
U0RXD/GPIO3
GPIO0/BOOT/ADC2_CH1
ADC2_CH2/GPIO2
ADC2_CH0/GPIO4
GPIO5
GPIO16
GPIO17
GPIO18
GPIO19
GPIO21
GPIO22
GPIO23
DAC_1/ADC2_CH8/GPIO25
DAC_2/ADC2_CH9/GPIO26
ADC2_CH7/GPIO27
UART0_TX
UART0_RX
IO0
UART1_RX
UART1_TX
BTN1
BTN2
WLED
J5
JTAG
TMS
TCK
TDO
TDI
J4
Program
TP6
TP5
TP4
TP7
TP8
TP3
D3
WS2812B
VDD
DIN
DOUT
VSS
RGB
+5V
J2
Display
10K
R2
10K
R3
SW3
BTN1
SW2
BTN1
SW1
RESET
J3
Barrel_Jack_Switch
+12V
U3 XL1509-3.3
U2 XL1509-5.0
VIN
OUT
EN
FB
L2
47uH
L1
68uH
C7
22uF
C8
100nF
C9
100uF
C4
22uF
C5
100nF
C6
100uF
D2
SS210
D1
SS210
TP1
TP2
OE
VCCA
VCCB
A1
A2
B1
B2
U4
RS0102YH8
UART1_RX_M
UART1_TX_M
J1
To Display
Designer: Toon Van Eyck
Repo: github.com/ToonVanEyck/OpenFlap
Commit: v0.0.0-unstable-136-gc981a45-dirty
OpenFlap
Sheet: /
File: controller.kicad_sch
Title: Controller
Size: A4
Date: 2025-03-09
Rev: 2.0.4 DEV
KiCad E.D.A. 8.0.6
Id: 1/1
H1
MountingHole
H2
MountingHole