

### Status LED

### I<sup>2</sup>C display

### Buttons

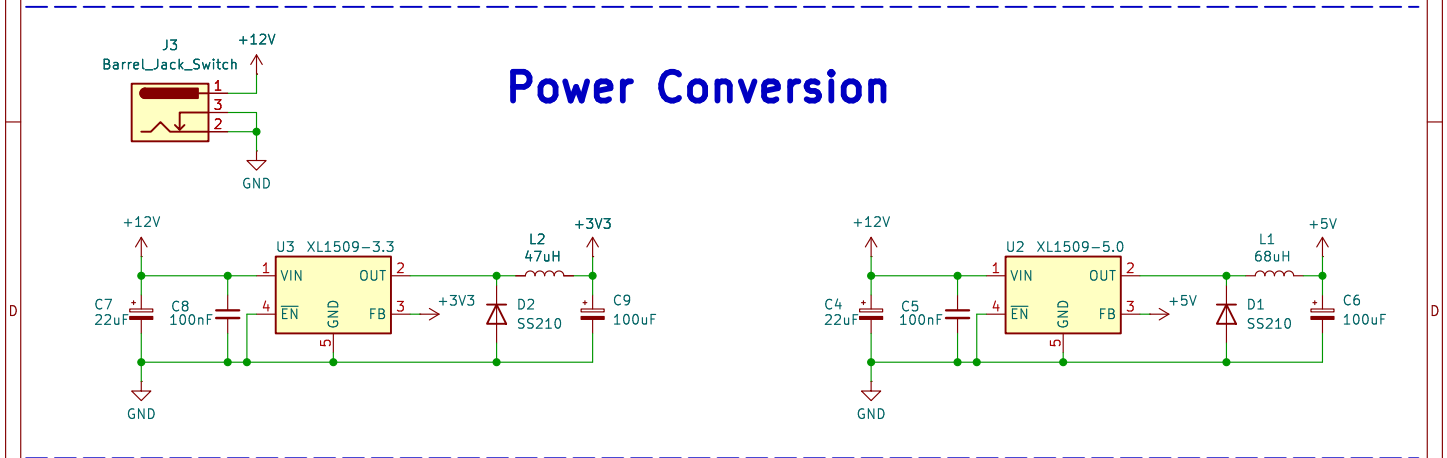
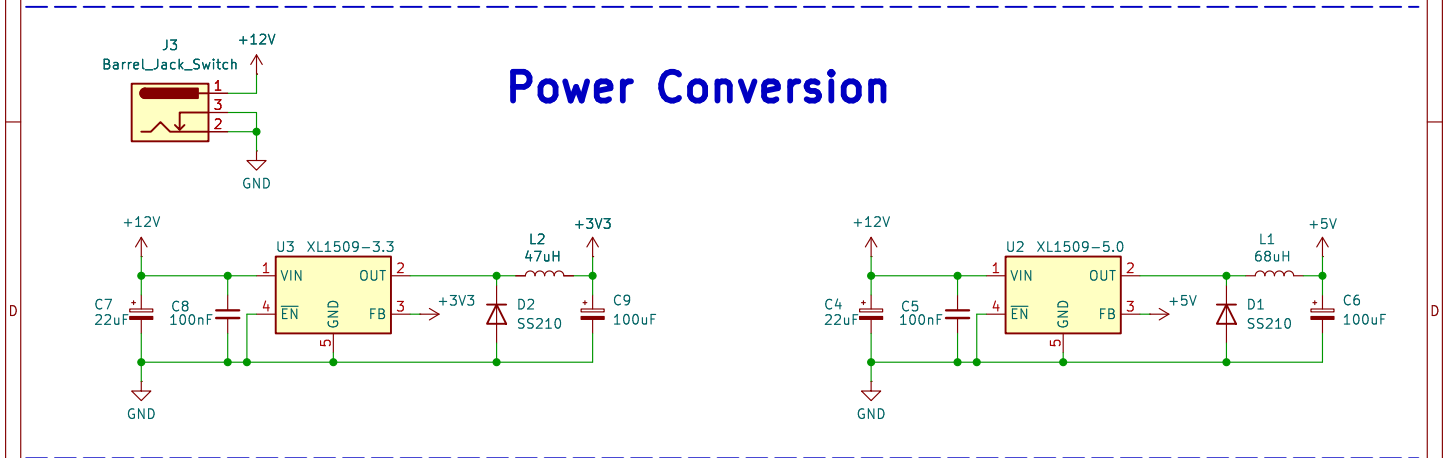
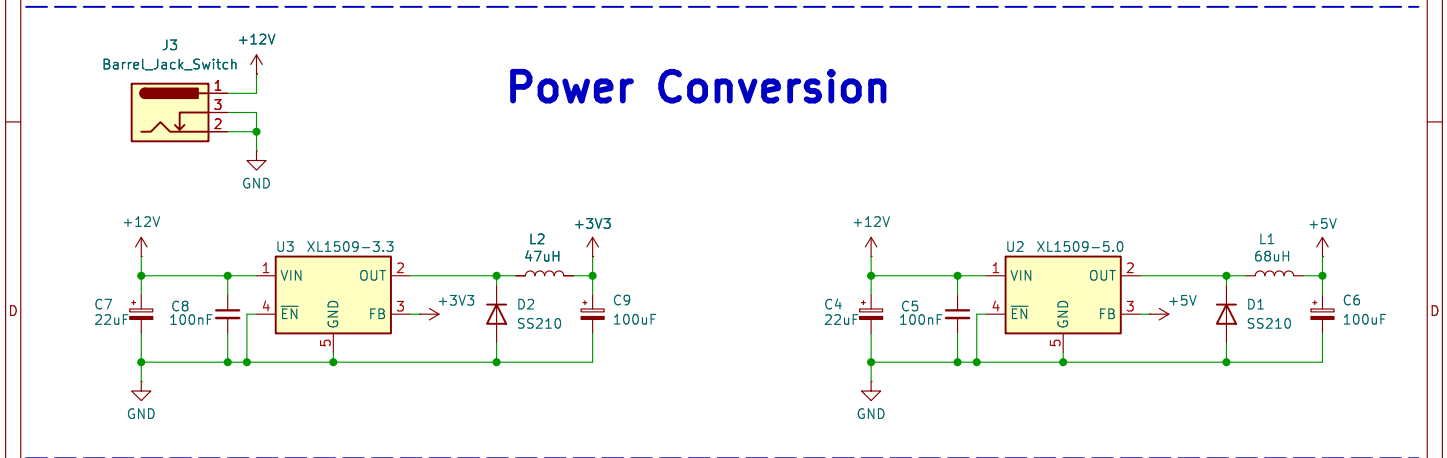
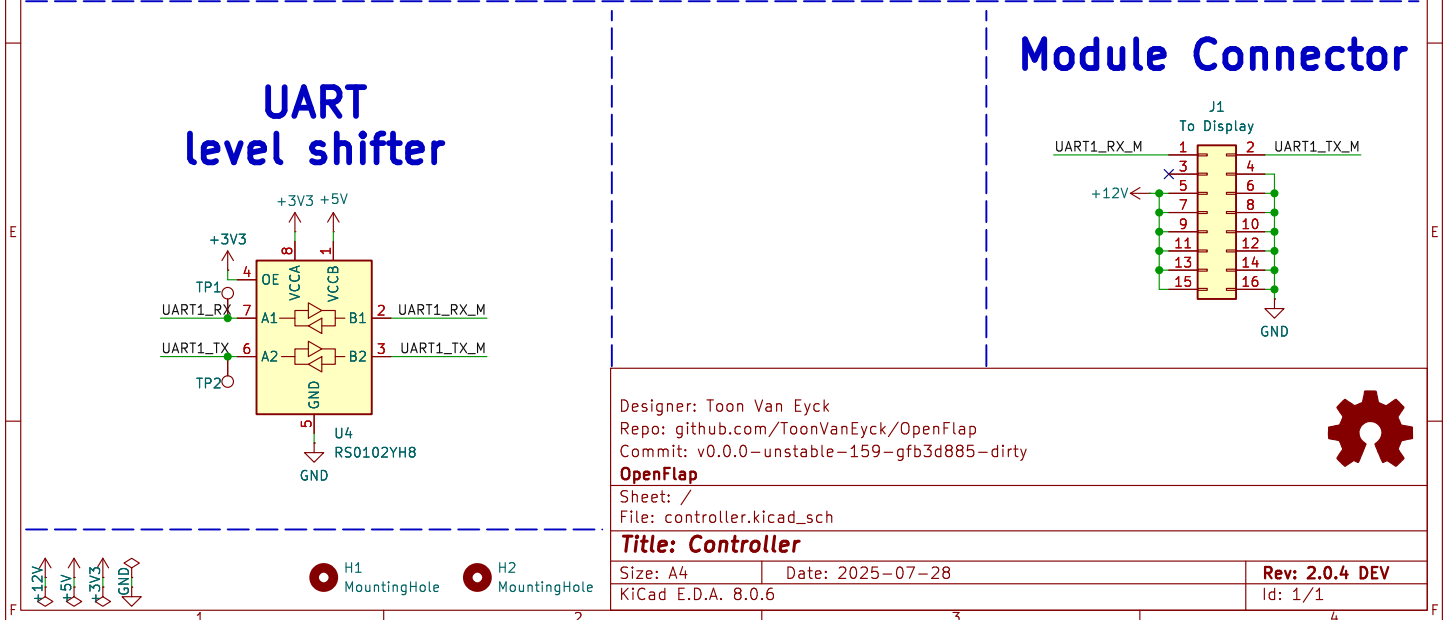
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## Power Conversion

The left diagram illustrates a +12V input connected to a barrel jack switch (J3) and a voltage divider (C7, C8) to the EN pin of an XL1509-3.3 converter (U3). The output of U3 is +3V3, which is filtered by C9. The right diagram shows a +12V input connected to a voltage divider (C4, C5) to the EN pin of an XL1509-5.0 converter (U2). The output of U2 is +5V, which is filtered by C6. Both converters have their FB pins connected to ground.

[illegible]

# UART level shifter

The schematic shows an RS0102YH8 (U4) level shifter. It has two input pins: TP1 (OE) connected to +3V3 and TP2 (GND) connected to GND. The output pins are B1 (UART1\_RX\_M) and B2 (UART1\_TX\_M). The power supply pins are VCCA (+3V3), VCCB (+5V), and GND.

# Module Connector

The pinout for the module connector J1 is shown. Pin 1 is UART1\_RX\_M, Pin 2 is UART1\_TX\_M, Pin 3 is +12V, Pin 4 is GND, Pin 5 is GND, Pin 6 is GND, Pin 7 is GND, Pin 8 is GND, Pin 9 is GND, Pin 10 is GND, Pin 11 is GND, Pin 12 is GND, Pin 13 is GND, Pin 14 is GND, Pin 15 is GND, Pin 16 is GND.

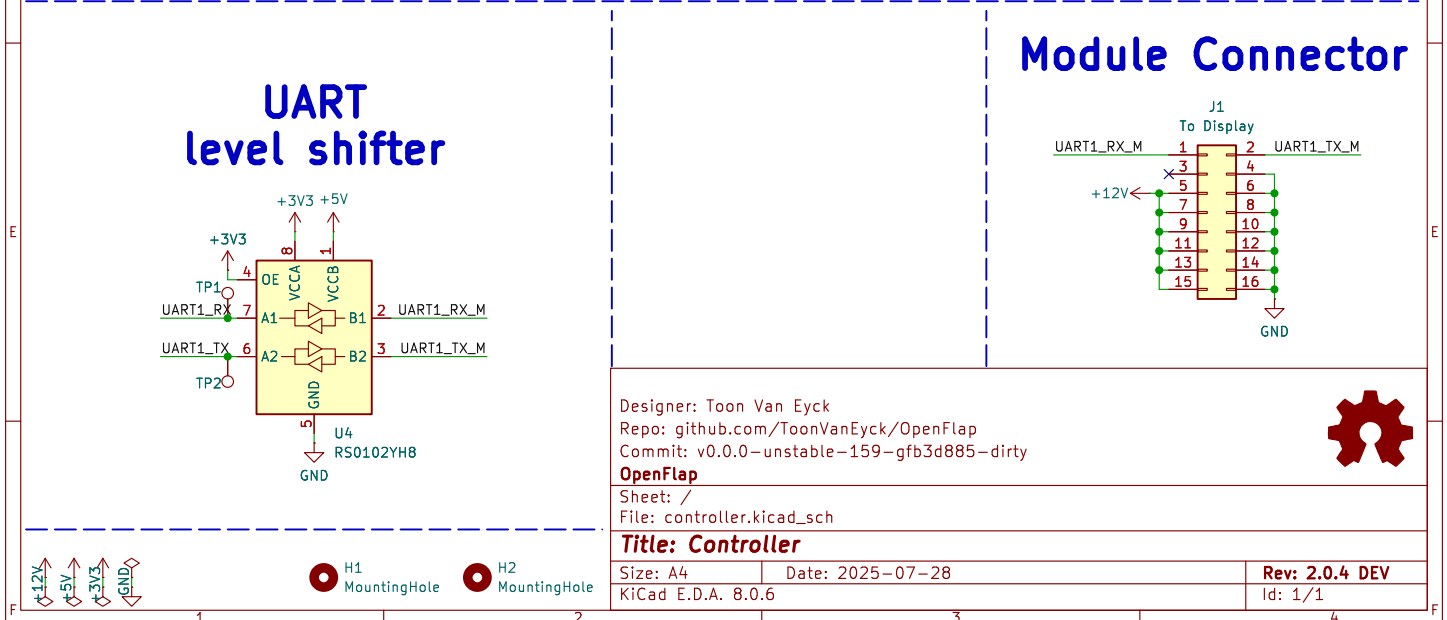
Designer: Toon Van Eyck  
Repo: [github.com/ToonVanEyck/OpenFlap](#)  
Commit: v0.0.0-unstable-159-gfb3d885-dirty

**OpenFlap**

Sheet: /  
File: controller.kicad\_sch

**Title: Controller**

Size: A4	Date: 2025-07-28	Rev: 2.0.4 DEV
KiCad E.D.A. 8.0.6		Id: 1/1



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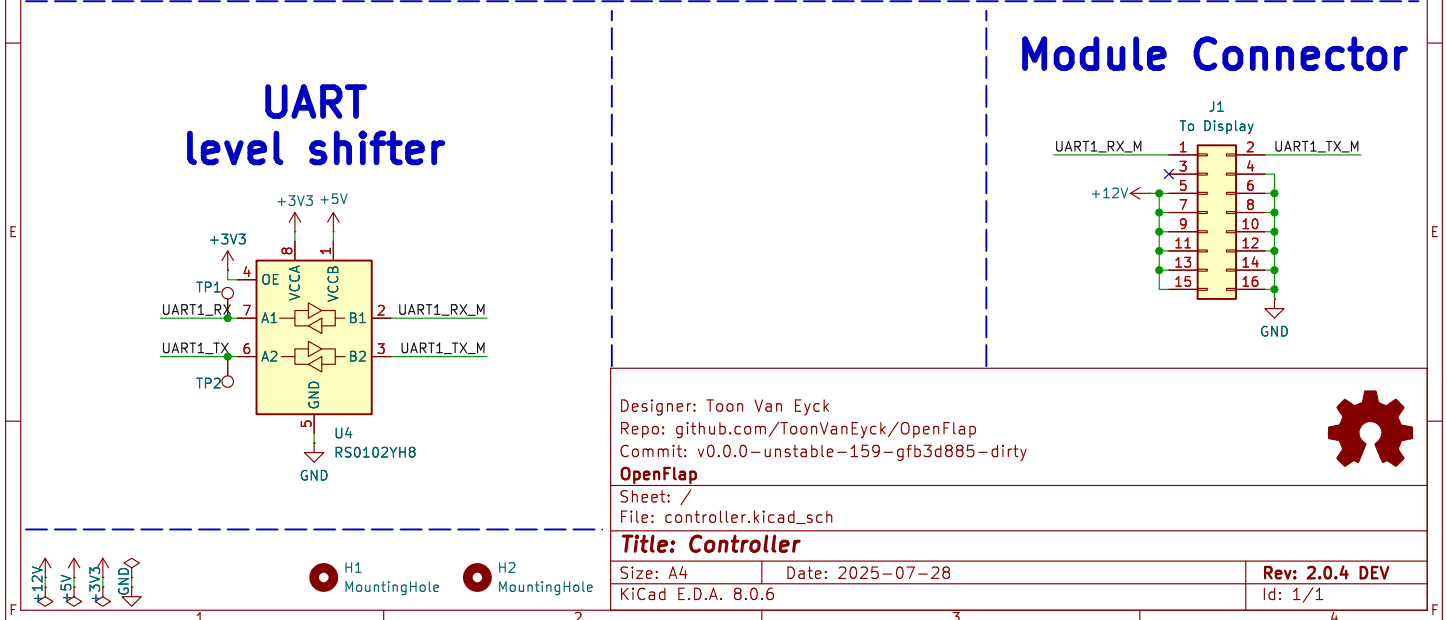
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