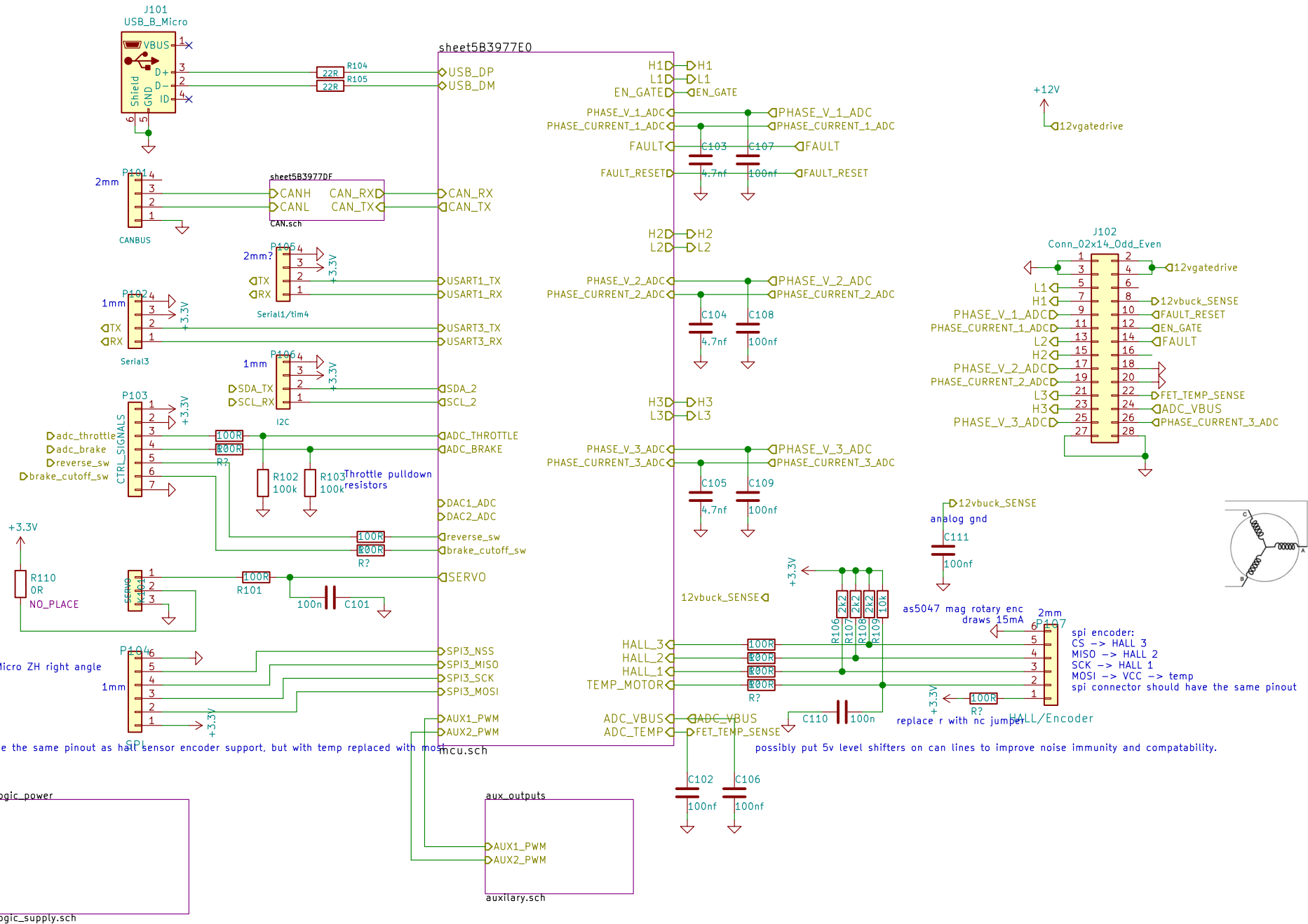
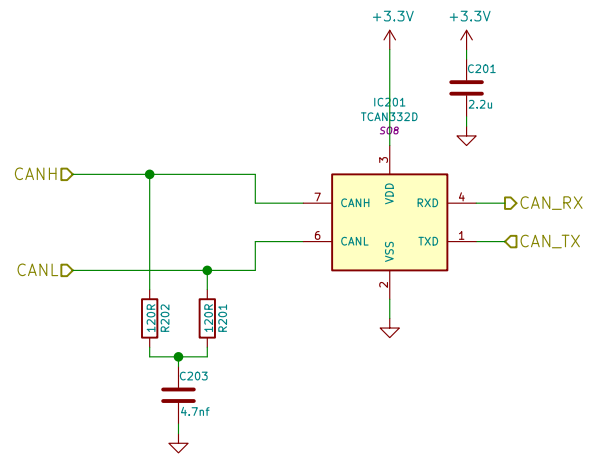


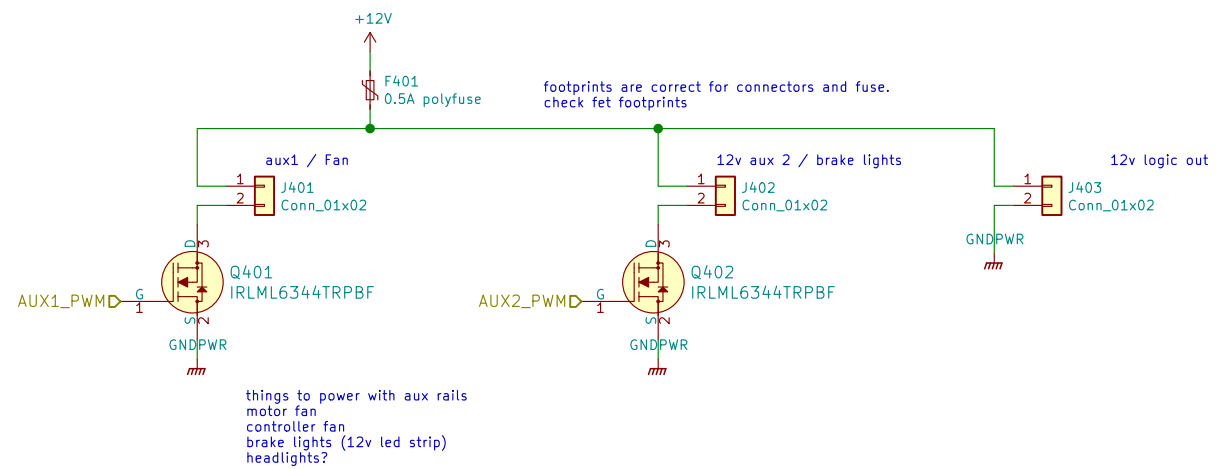
The diagram illustrates a complex PCB layout for a Mini Micro ZH right angle connector. Key components and connections include:

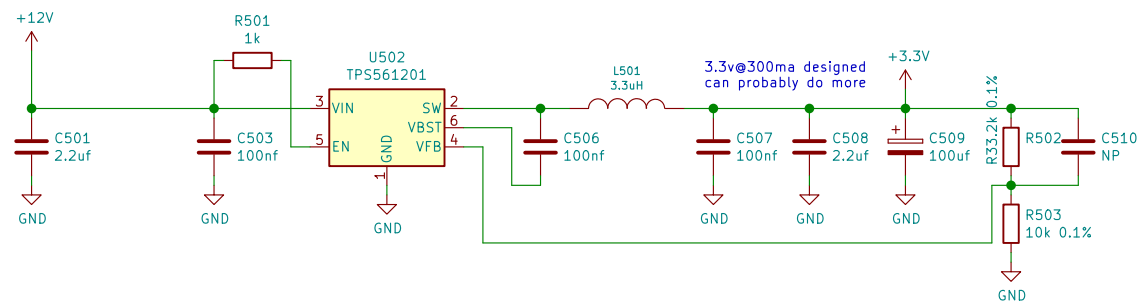
- USB\_B\_Micro**: A USB connector at the top left, with pins 1 (VBUS), 2 (D+), 3 (D-), 4 (ID), 5 (GND), and 6 (Shield). It is connected to a **sheet5B3977E0** component.
- CANBUS**: A 2mm pitch connector with pins 1, 2, 3, and 4. It is connected to a **sheet5B3977DF** component, which in turn connects to **CAN\_RX** and **CAN\_TX** pins.
- Serial3**: A 1mm pitch connector with pins 1, 2, 3, and 4. It is connected to **TX** and **RX** pins.
- I2C**: A 1mm pitch connector with pins 1, 2, 3, and 4. It is connected to **SDA\_TX** and **SCL\_RX** pins.
- Throttle pulldown resistors**: Three 100k resistors (R102, R103, R104) connected to the I2C lines.
- Servo**: A servo motor connected to a **SERVO** pin. It includes a **100nF** capacitor (C101) and a **100k** resistor (R101).
- Logic Power**: A section at the bottom left labeled **logic\_power** and **auxiliary.sch**, containing a **logic\_supply.sch** component.
- Auxiliary Outputs**: A section at the bottom right labeled **aux\_outputs**, containing **AUX1\_PWM** and **AUX2\_PWM** pins.

The layout is color-coded and includes labels for components and their values, such as **100k**, **100nF**, and **100k**.

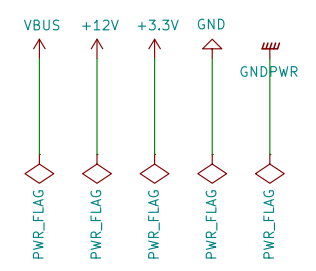


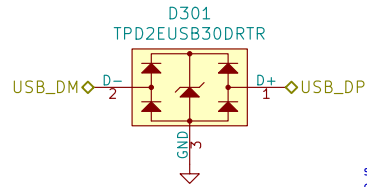






3.3v@300ma designed  
can probably do more



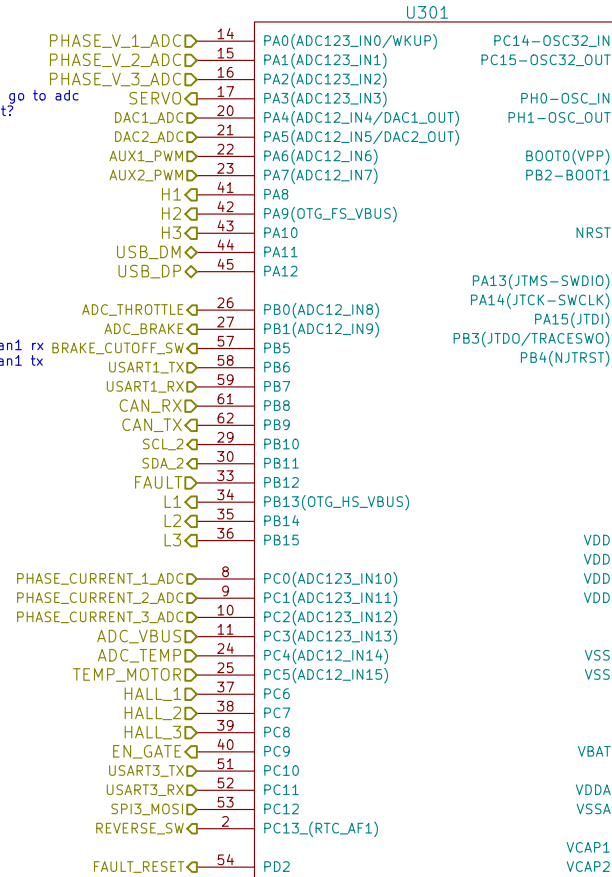


phase v & isense adc inputs same as axiom hw

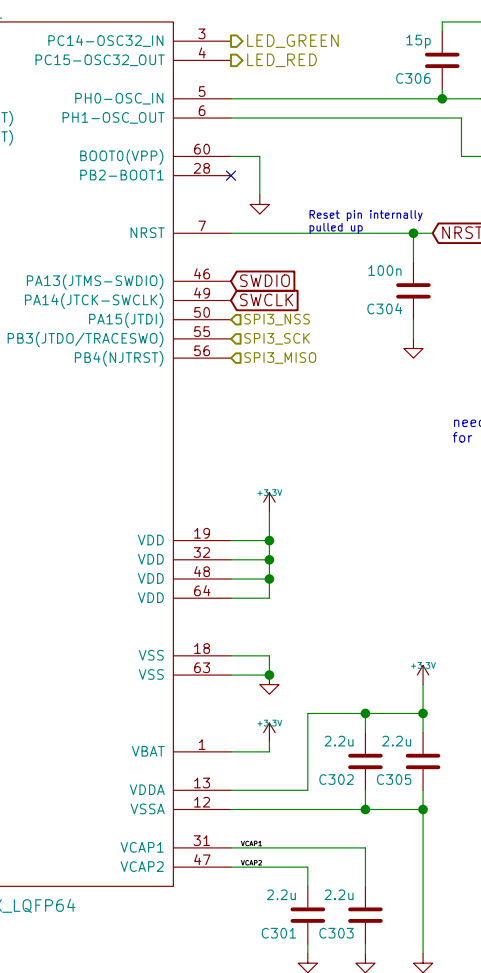
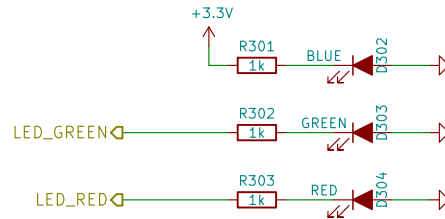
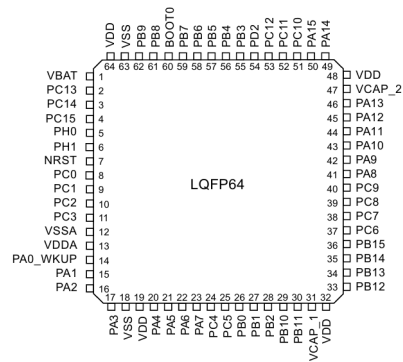
servo sig should also go to adc  
check that 5v tolerant?

move brake and throttle (adc 1 and 2) to dac capable pins  
move servo to pin with adc and timer 3 or 4

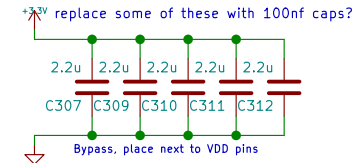
draws 50-100ma from 3.3v



STM32F40X-LQFP64



needs to source 15ma  
for hall sensor power



make bogopin freindly?  
only need to program once,  
maybe smd pads on underside  
except for debugging - need connector for that.  
maybe 1.0mm pitch optionally placeable?

