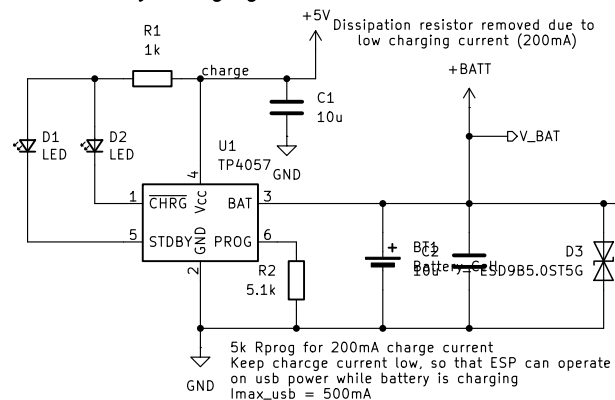
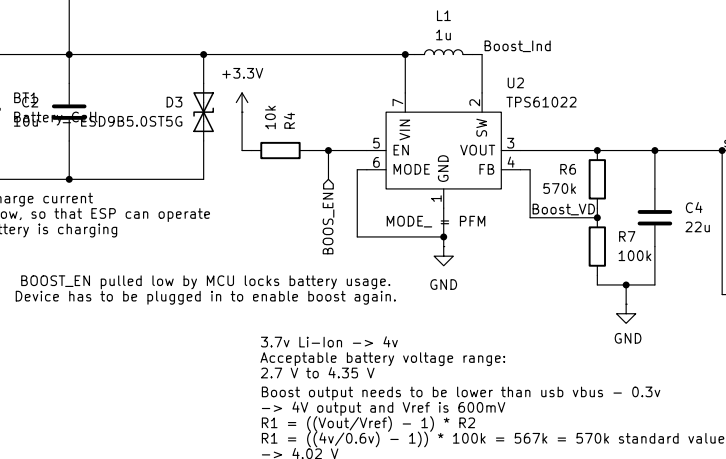


**Block Diagram**

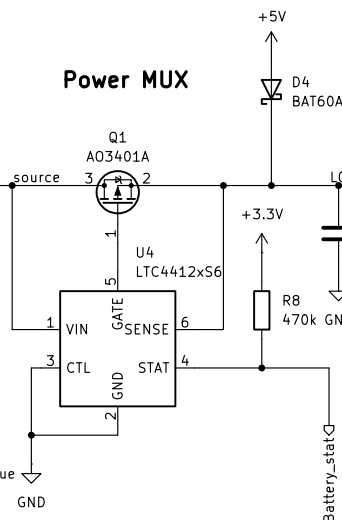
## Battery charging circuit



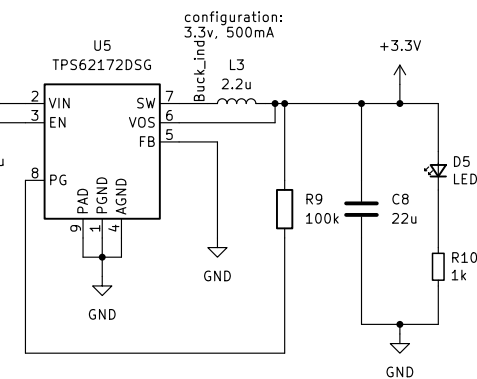
## Battery voltage boost converter



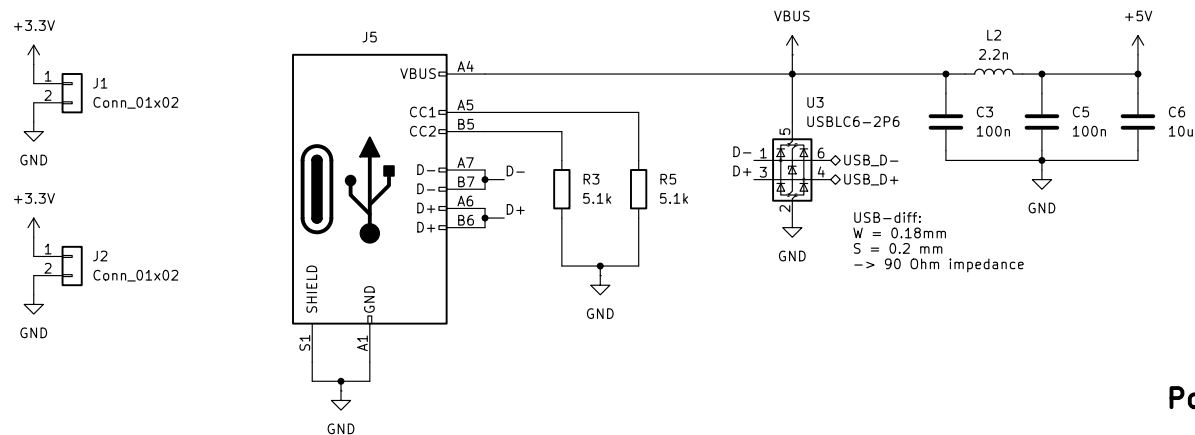
## Power MUX



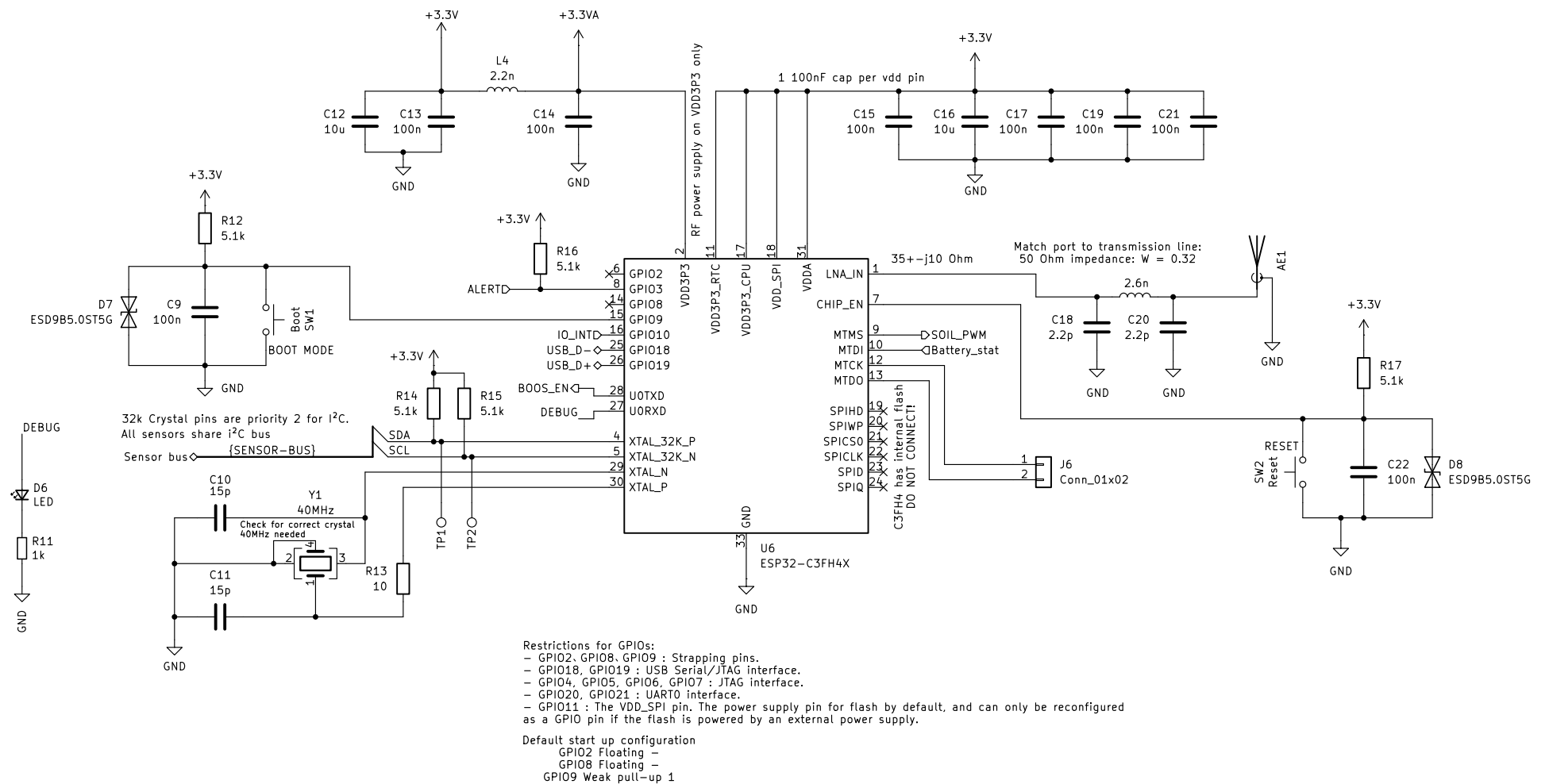
## Step down regulator



## USB JTAG and Power

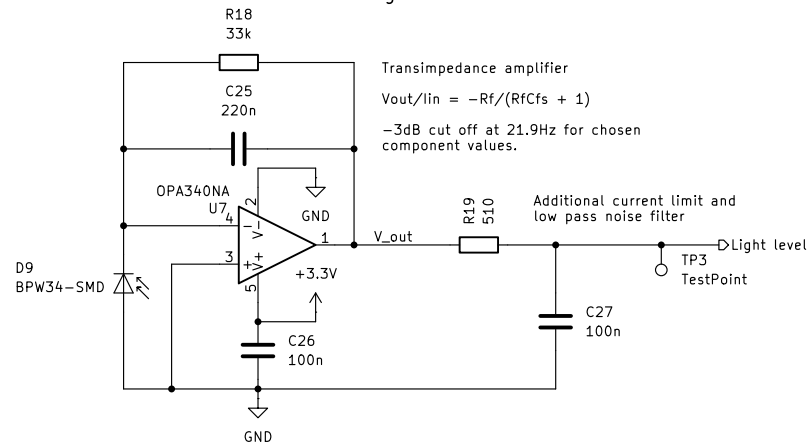


## Power Supply and USB

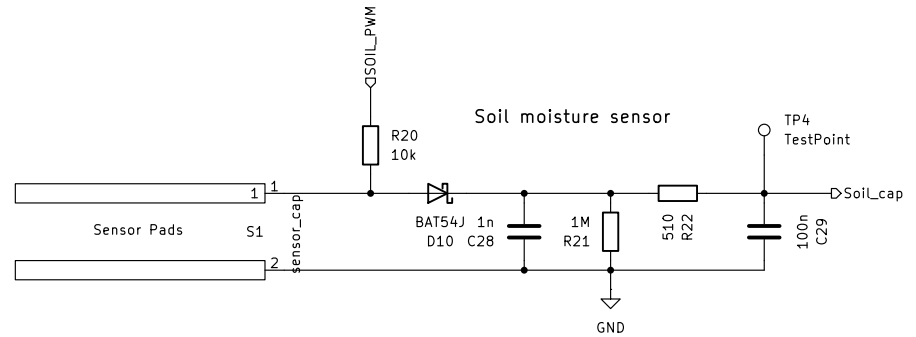


## ESP32-C3 and Peripherals

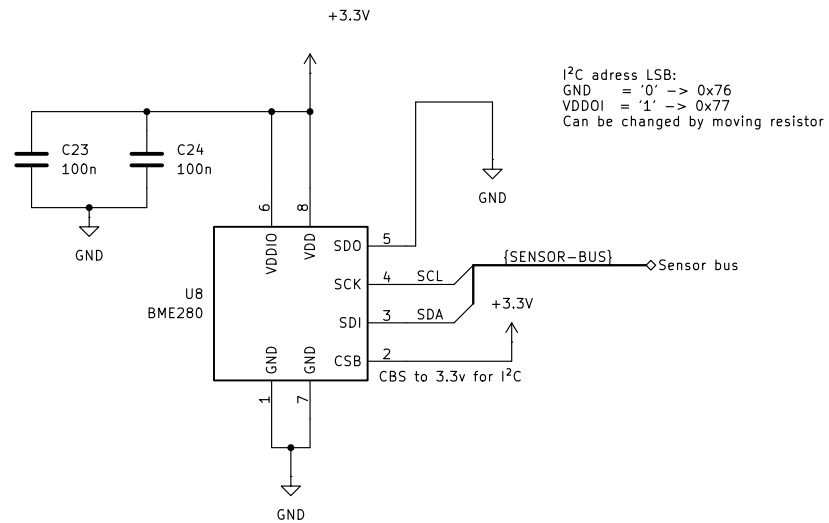
### Ambient Light sensor



### Soil moisture sensor

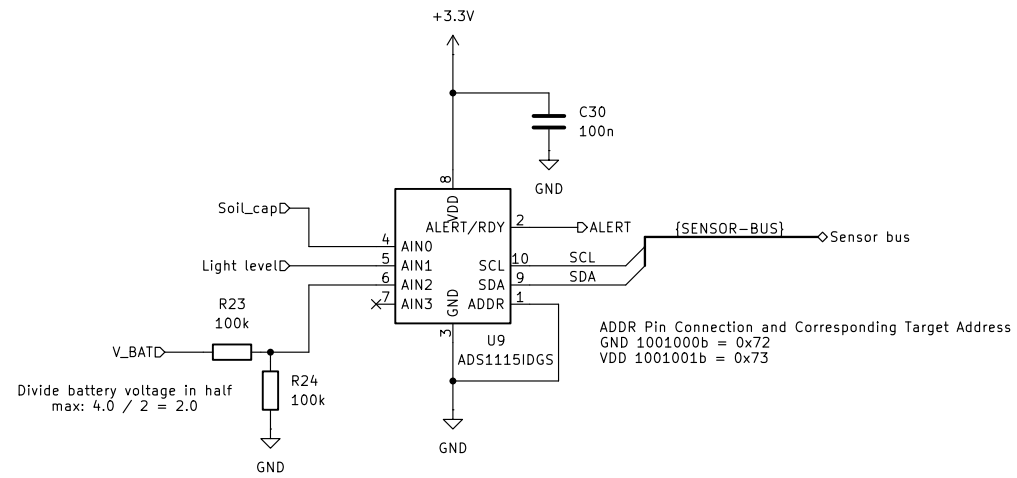


### Humidity and temperature sensor



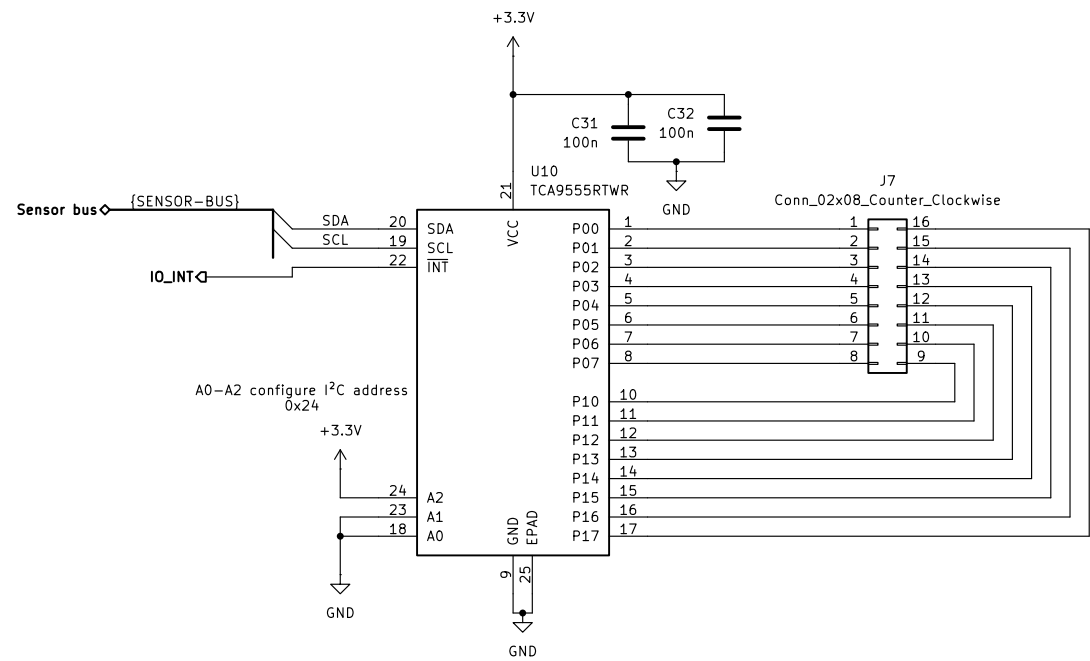
## Sensors

# 16bit ADC for analog sensor inputs



ADC

I2C I/O Expander for LED bar



I/O Expander