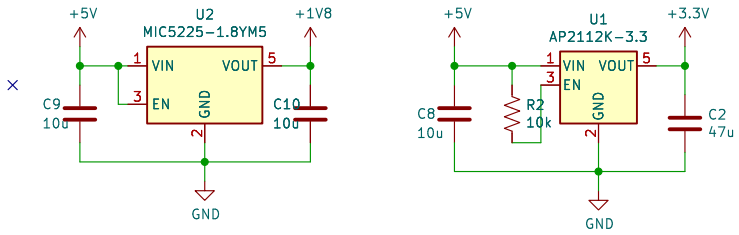
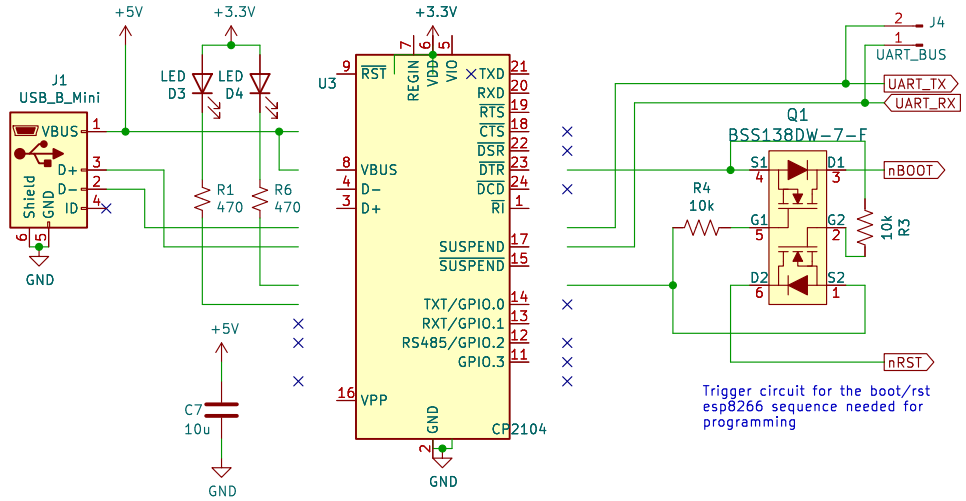
## Regulators (3.3V and 1.8V)

The 3.3V Regulator is rated at 1A. It is to supply power to the ESP and most of the sensors. The 1.8V Regular is rated at 150mA and is for the CP60 gas sensor.

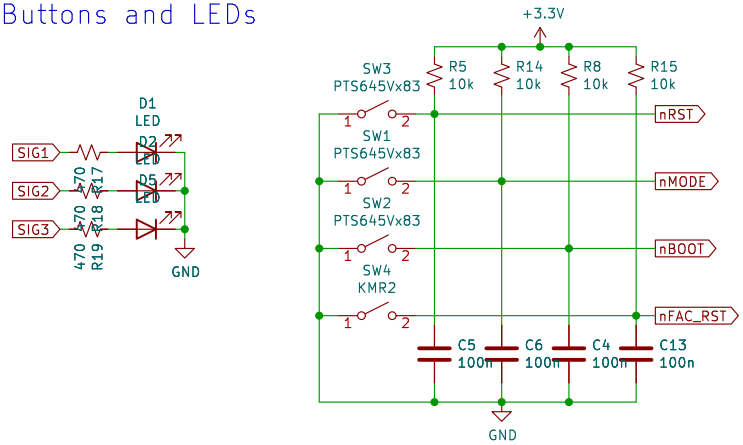



## USB/UART Bridge + Auto Reset

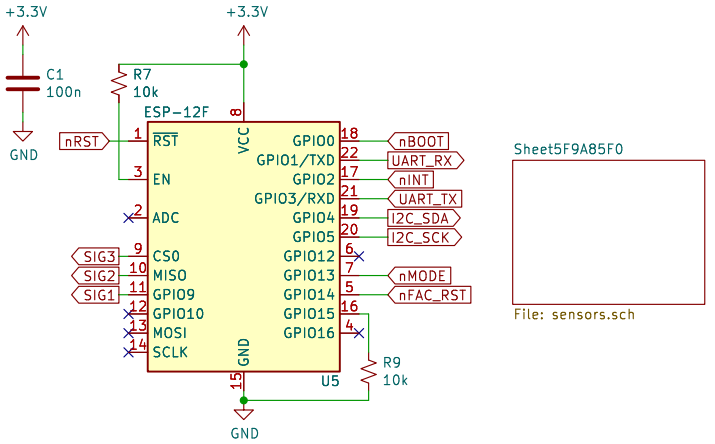
The CP210x series of chips requires a driver. There is also a built in Boot/Rst trigger using the DTR and RTS controls.
https://www.silabs.com/products/development-tools/software/usb-to-uart-bridge-vcp-drivers



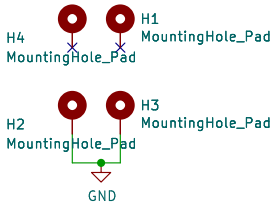

## I/O – Buttons and LEDs




## ESP-12F w/ Sensor Subblock




## Mounting Holes

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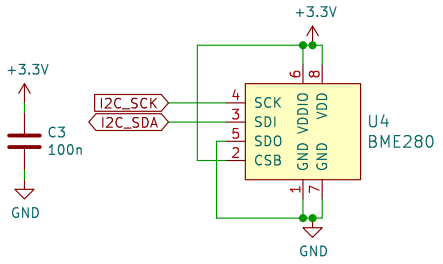
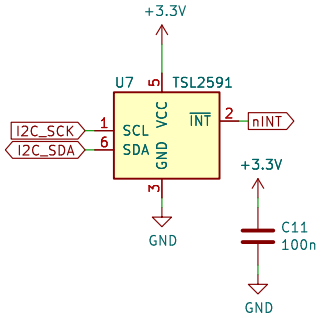
| Size: A4 | Date: | **Rev:** |
| KiCad E.D.A. kicad 7.0.7 | | Id: 1/2 |

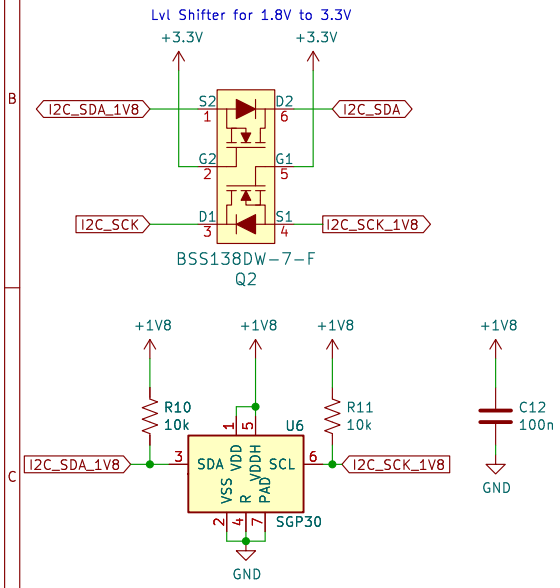
## Humidity/Temperature



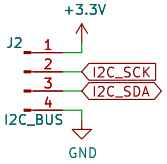

## Light



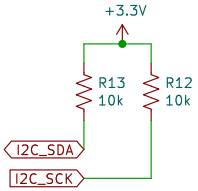

## Air Quality




## I2C Port




## I2C Bus Pullups




Sensor Address
BME280 – 0x77
TSL2591 – 0x29
SGP30 – 0x58

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| File: sensors.sch | | |
| **Title: Sensors** | | |
| Size: A4 | Date: 2020-08-19 | **Rev: 1** |
| KiCad E.D.A. kicad 7.0.7 | | Id: 2/2 |