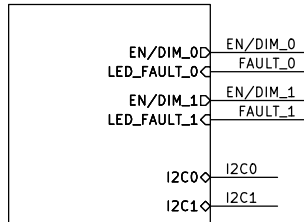


Power



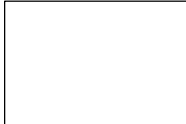
File: power.kicad\_sch

Microcontroller

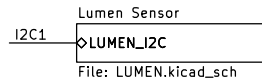
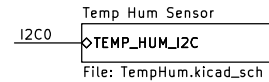
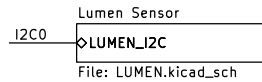
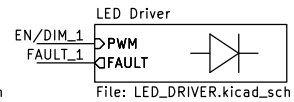
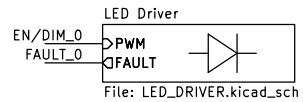


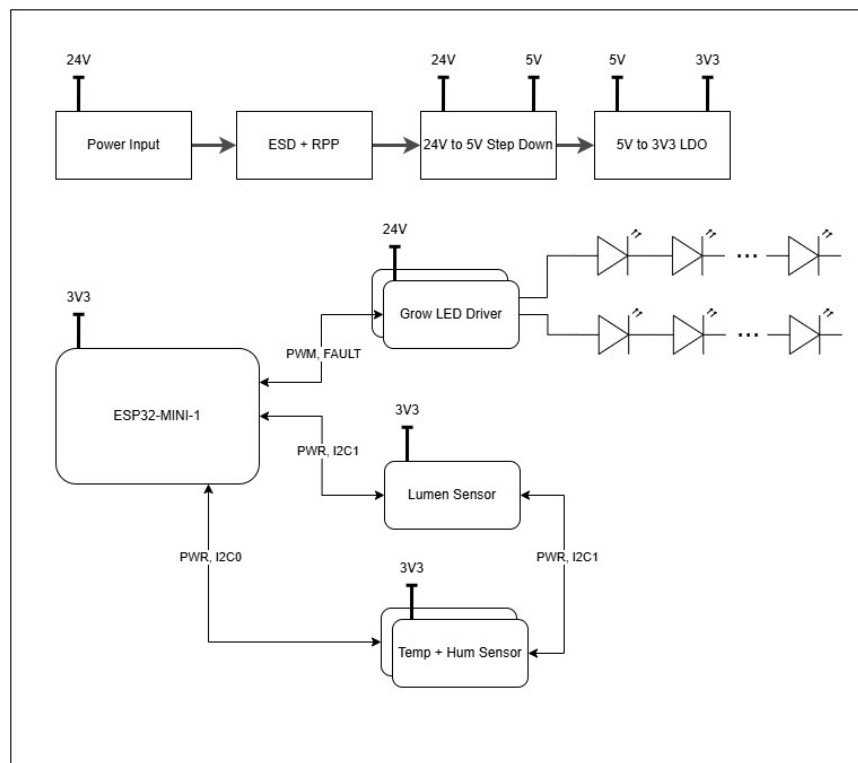
File: Microcontroller.kicad\_sch

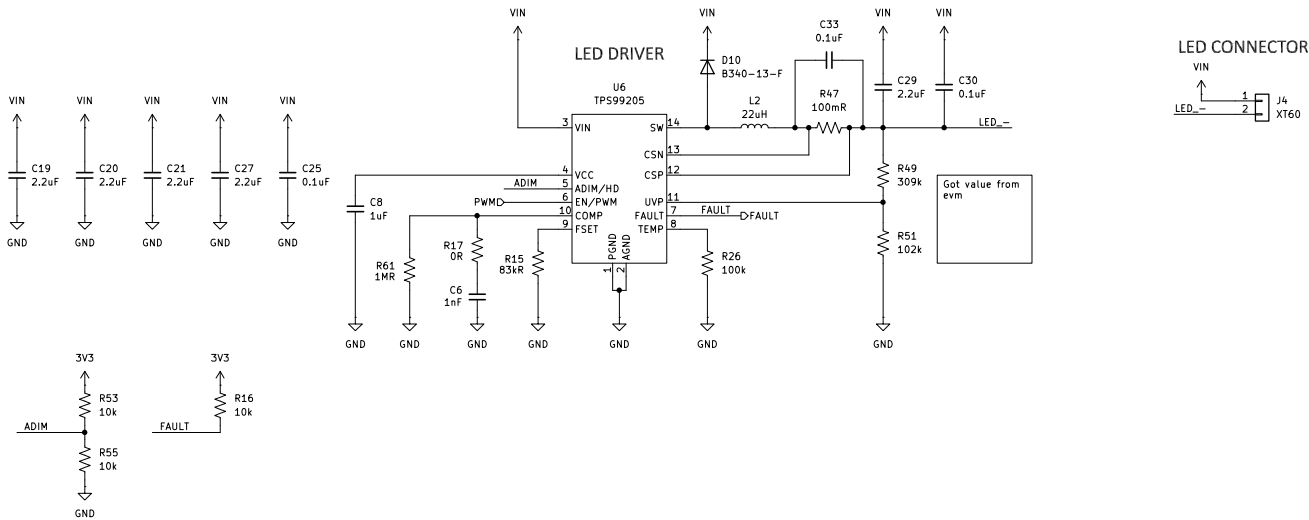
Block Diagram



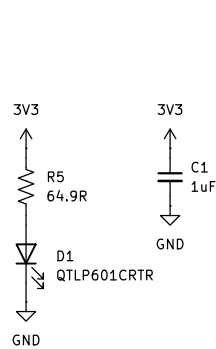
File: block\_diag.kicad\_sch



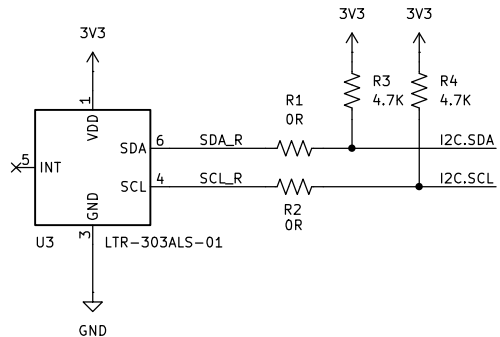




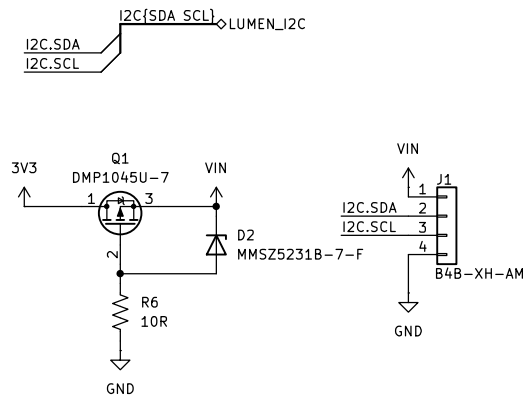
STATUS LED



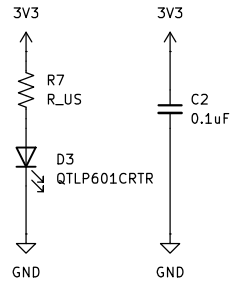
Luminosity Sensor



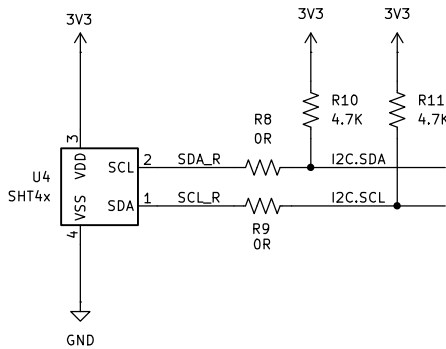
Connector + Protection



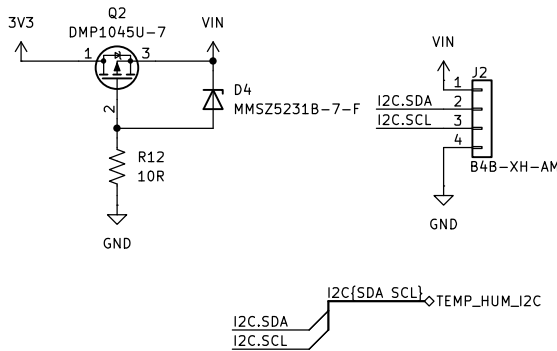
STATUS LED



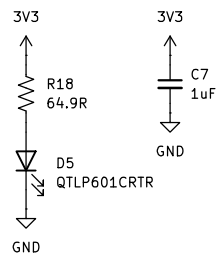
Temp + Hum Sensor



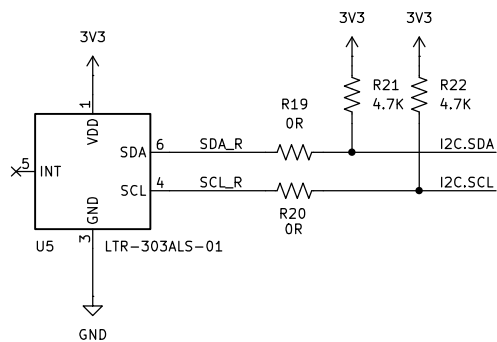
Connector + Protection



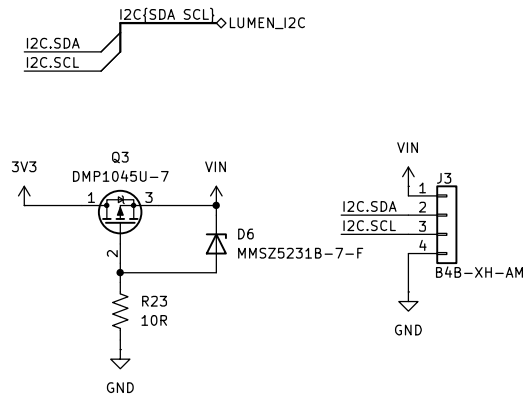
STATUS LED

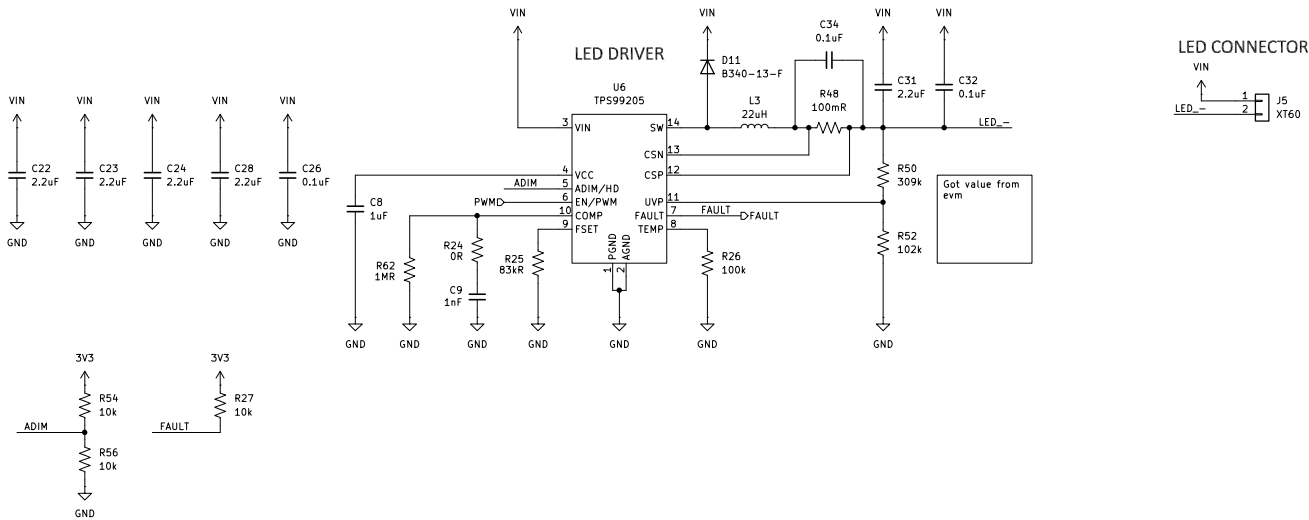


Luminosity Sensor



Connector + Protection

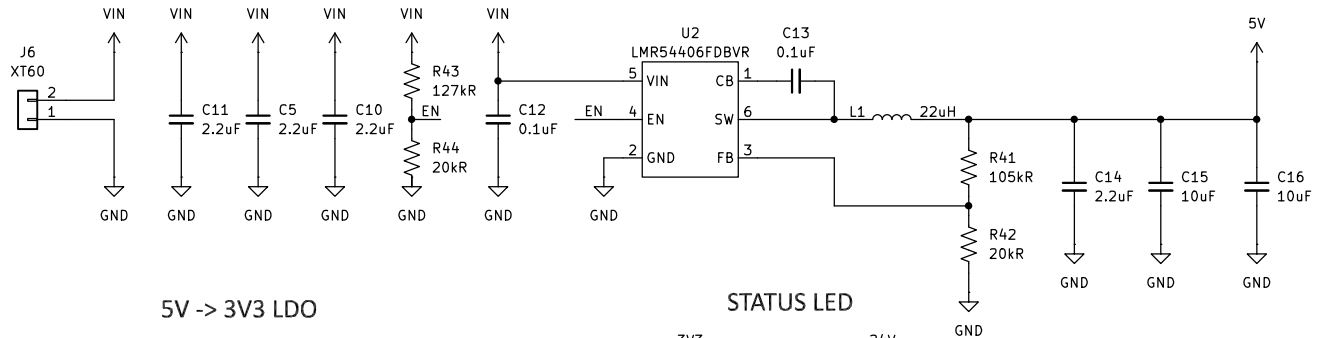




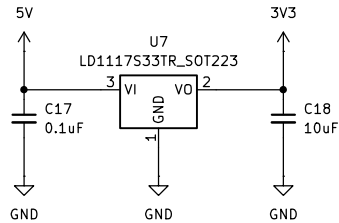
VIN: 24V  
I<sub>in</sub>: 12 A

## INPUT CONNECTOR

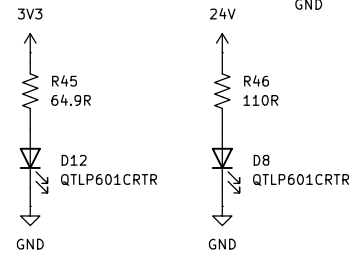
## 24 -> 5V Buck



## 5V -> 3V3 LDO



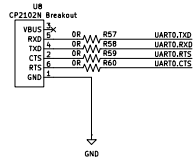
## STATUS LED





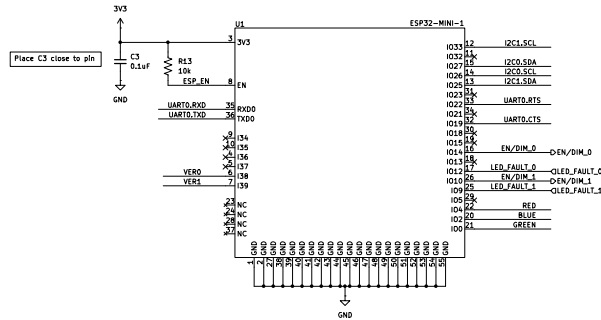
## CP2102 Breakout

All pins referenced from CP2102 side

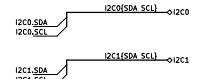


TODO:  
PROGRAMMER/DEBUGGER: Breakout for UART (Maybe pogo pins)  
HEADERS: HEADER FOR ALL EXTRA IO

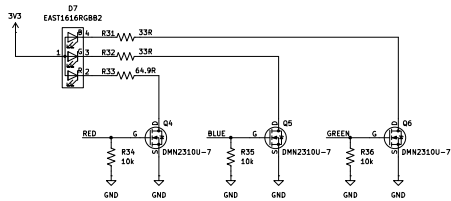
## Microcontroller Module



## BUS DEFINITIONS

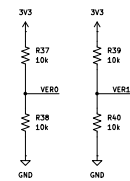


## RGB STATUS LED



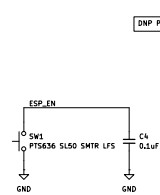
Toggle Color via uC pin for different status modes

## VERSIONING RESISTORS



Versioning Resistors for HW to detect SW Version. DNP appropriately

## RESET



Place C4 close to switch

## PULLUPS

