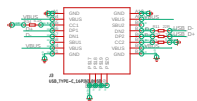
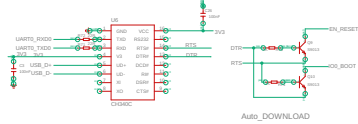


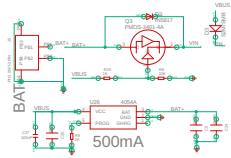
## USB type-c



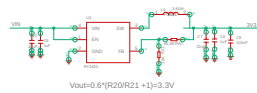
## USB to serial



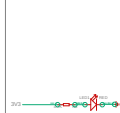
## Battery



## system 3.3V power



## POWER LED



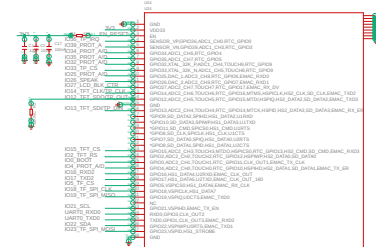
## ESP32-WROOM-32-N4

### BOOT<sub>0</sub>

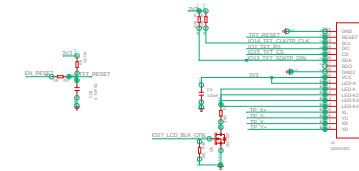
IO0:  
Low: enable downloading  
High: enable SPI

### RESET

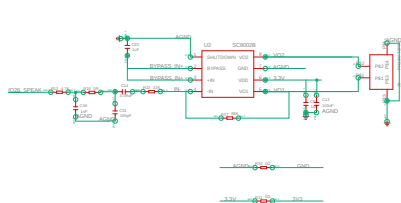
EN:  
High: enable IC  
Low: disable IC



## LCD+TP interface



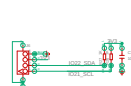
## SPEAKER



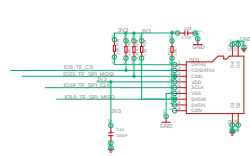
## GPIO A/D port can extend UART/ IIC



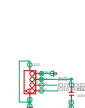
## I2C port



## TF Card



## UART1 port



## TP drive: XPT2046

