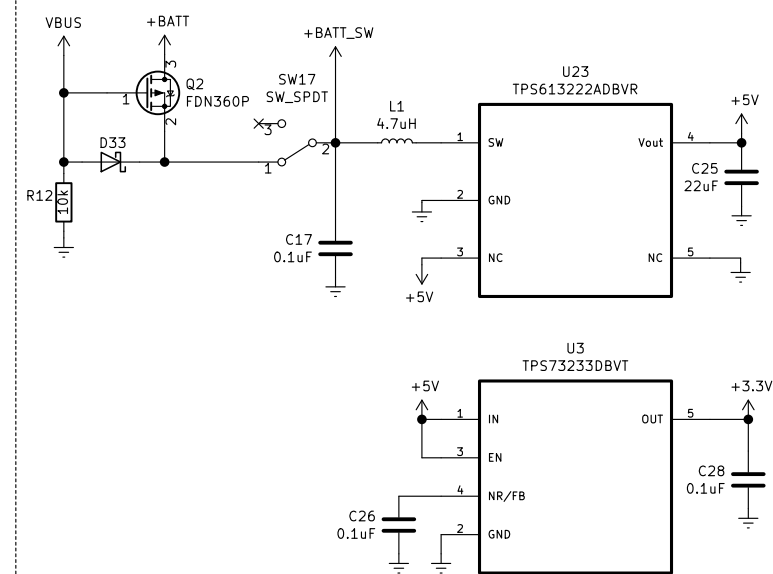
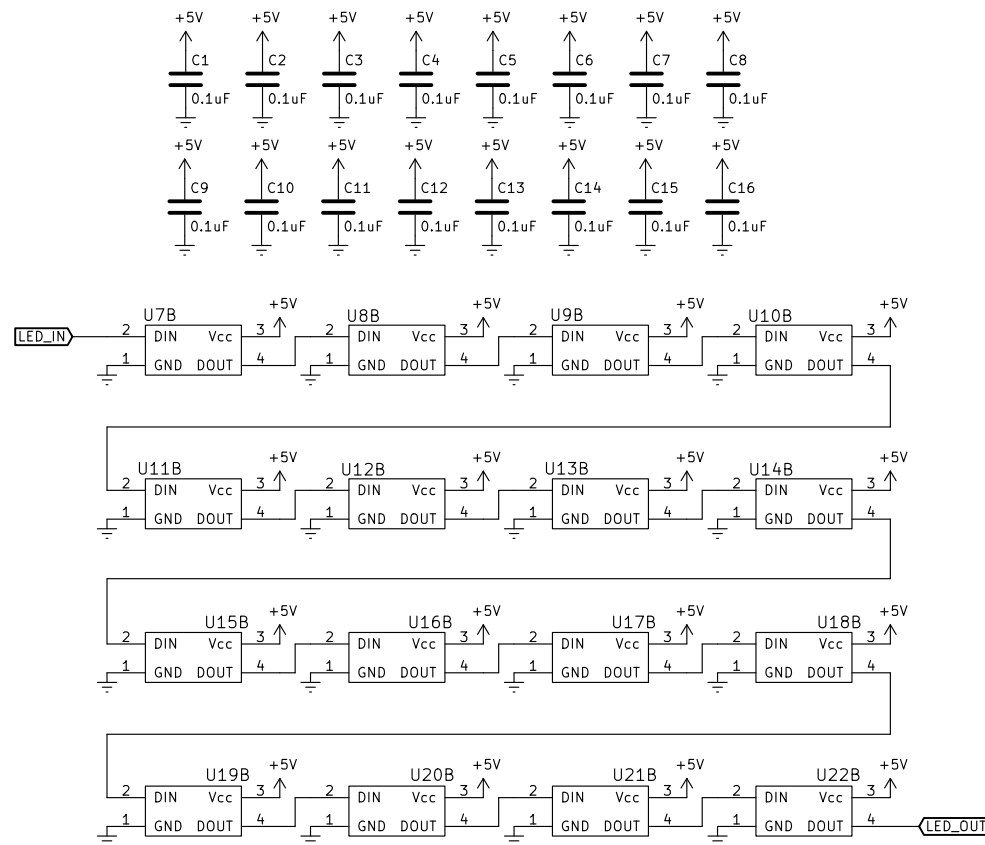


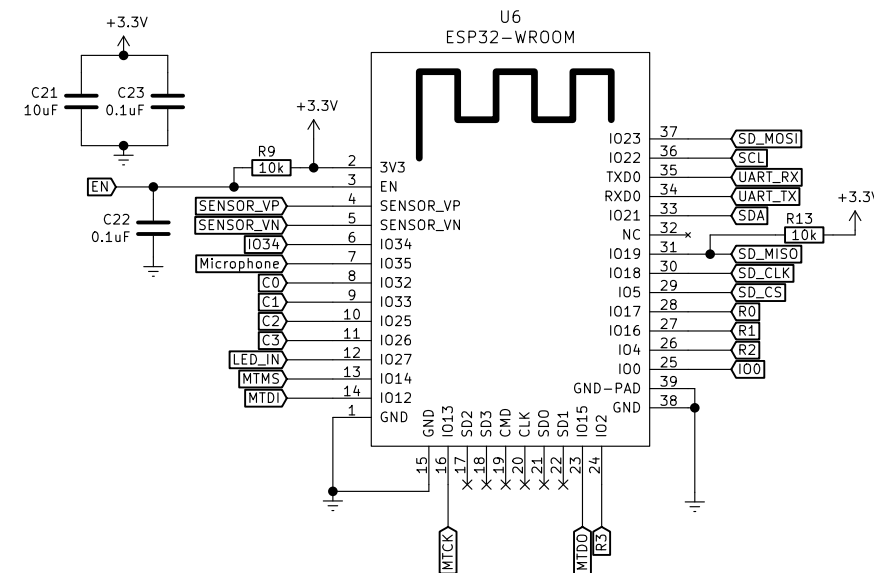
## Power regulation



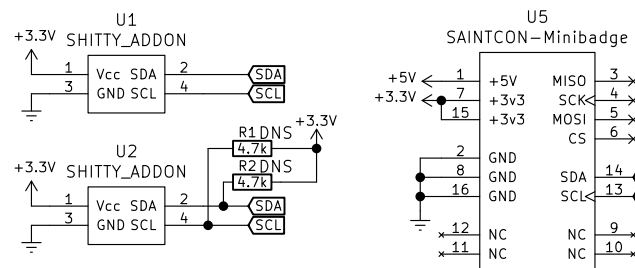
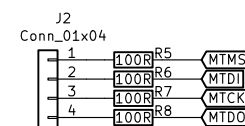
RGB LEDs



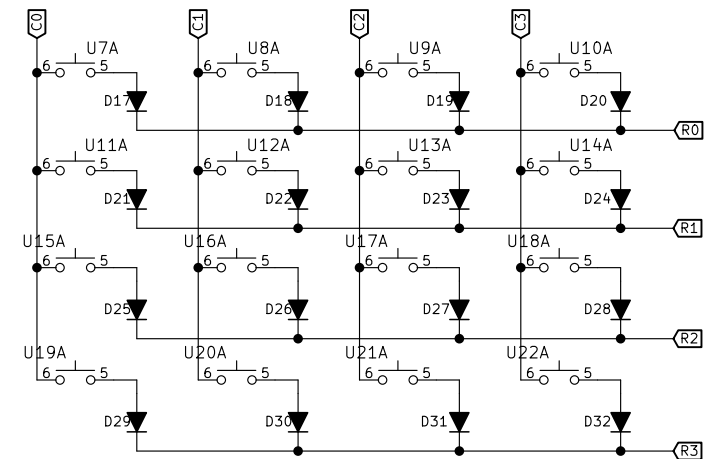
ESP32 Module



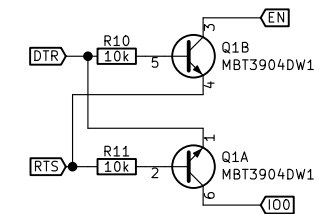
## Addons

JTAG

## Keygrid



## Bootstrapping



The ESP32 will enter the serial bootloader when GPIO0 is held low on reset. Otherwise it will run the program in flash.

<https://github.com/espressif/esptool/wiki/ESP32-Boot-Mode-Selection>

DTR high, toggle RTS H->L to reset to run mode  
RTS high, toggle DTR L->H to reset to bootloader

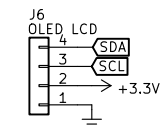
Bootstrap pins:

```

GPIO0 - H = SPI boot, L = GPIO2 L = Download boot
GPIO2 - See above
GPIO5 - See below
MTDI (GPIO12) - H = 1.8V VDD_SDIO, L = 3.3V (want L, default)
MTDO (GPIO15) - Couple with IO5 to determine timing of SDIO slave

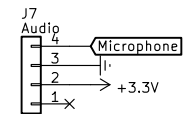
```

OLED LCD



Connector is on the left  
Pin 1 is at the bottom

Microphone



Microphone module

## Batteries

