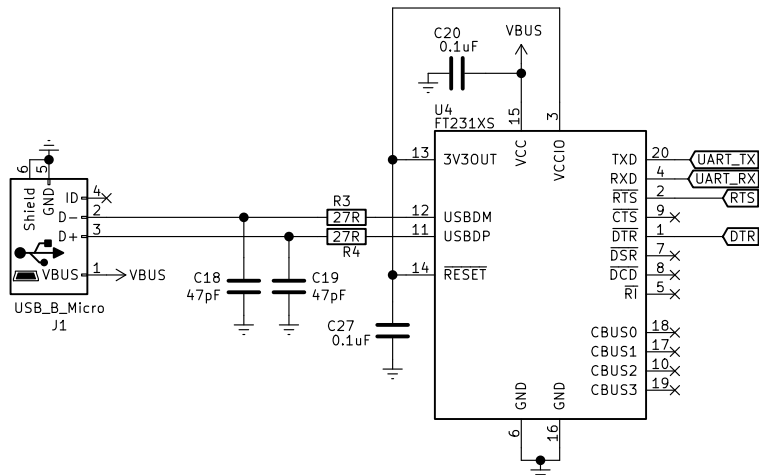
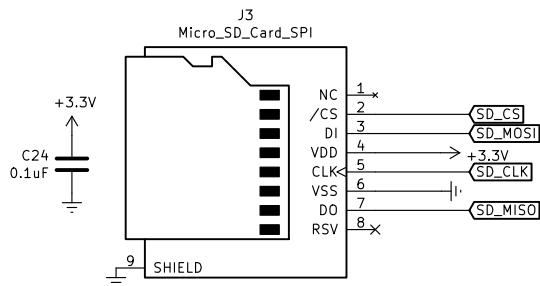


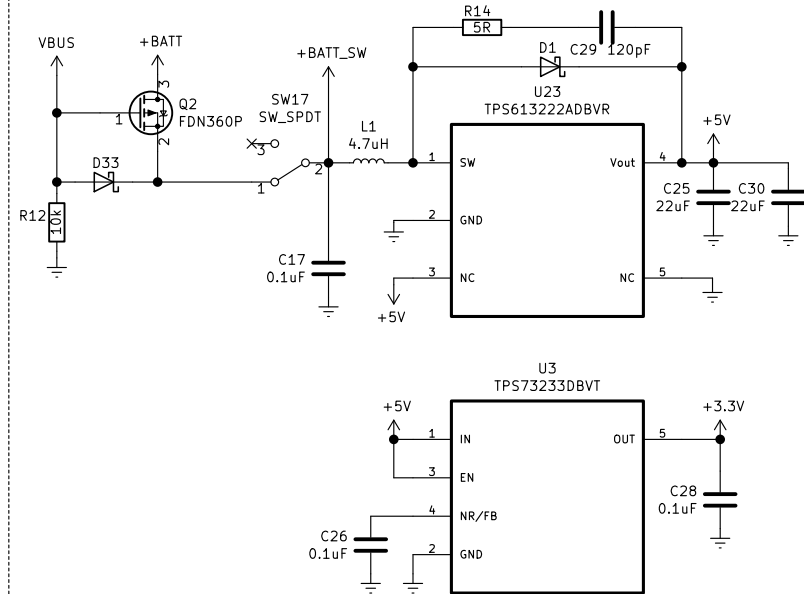
# USB UART



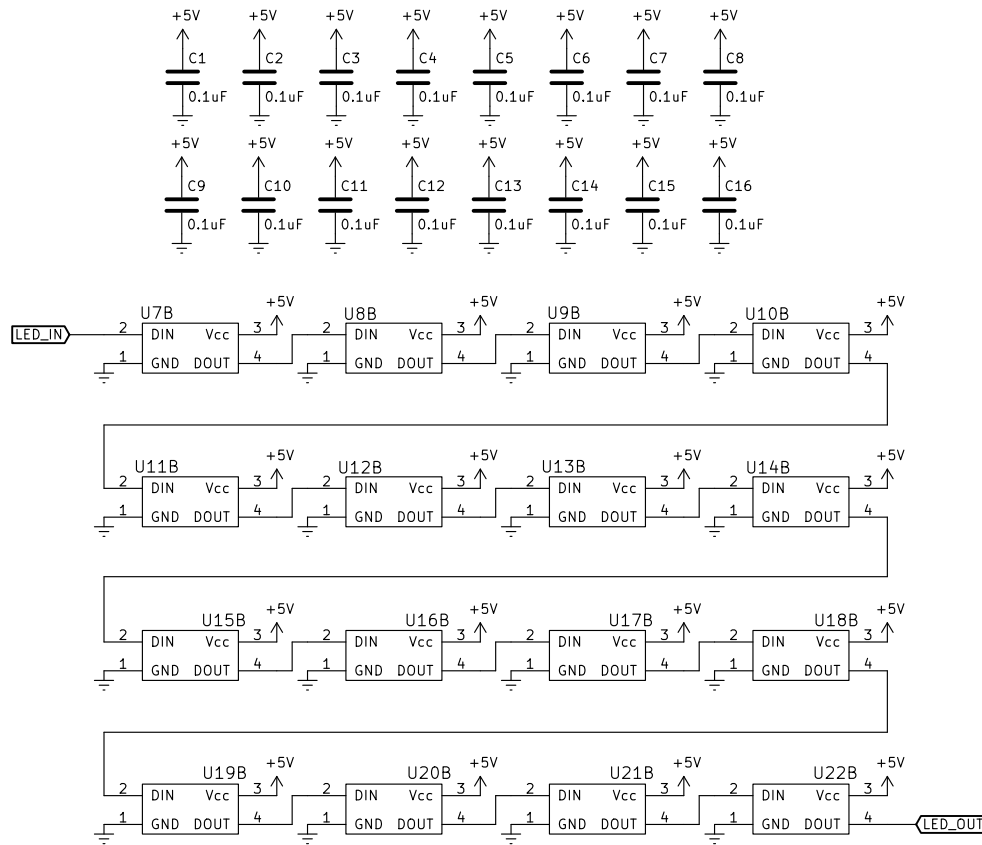
# SD Card



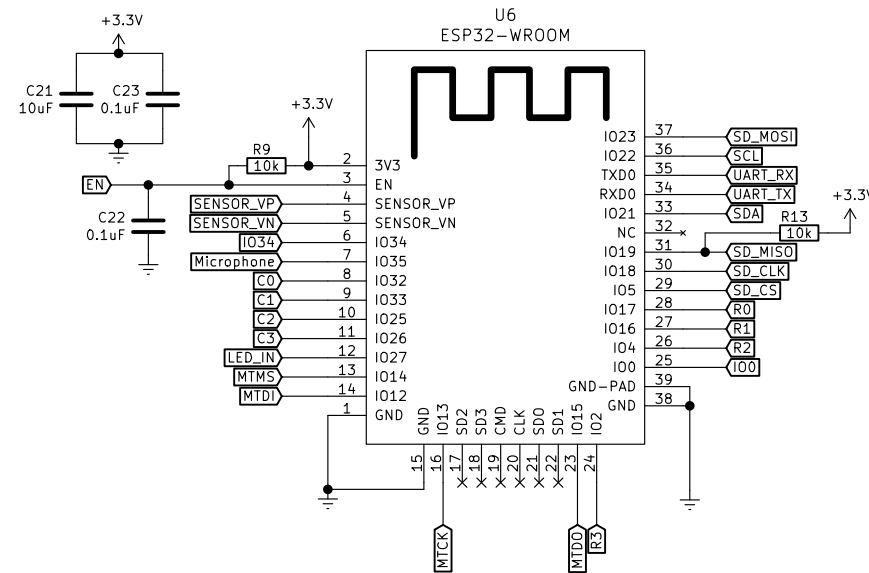
# Power regulation



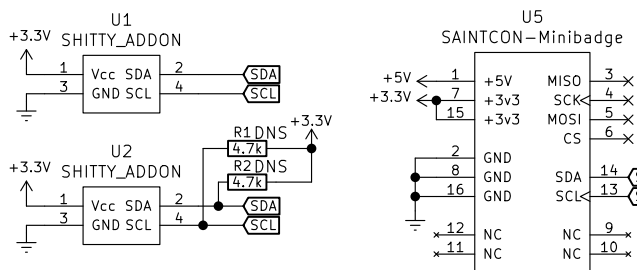
# RGB LEDs



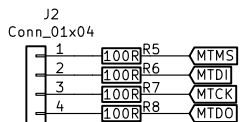
# ESP32 Module



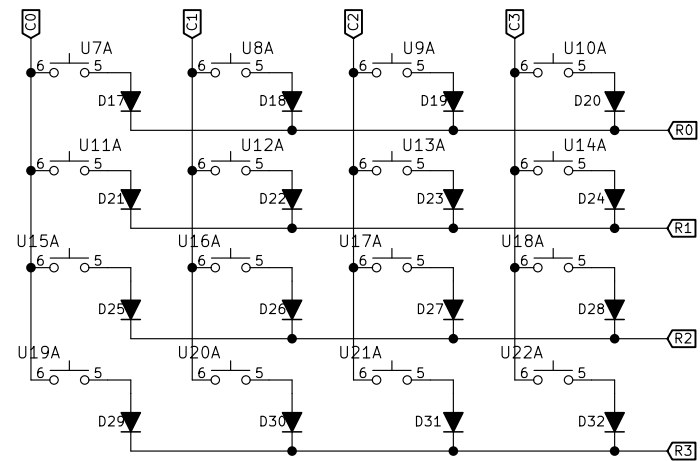
# Addons



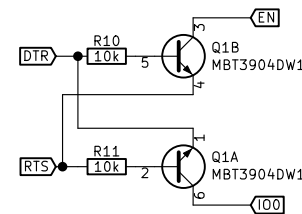
# JTAG



# Keygrid



# Bootstrapping



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

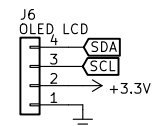
<https://github.com/espressif/esptool/wiki/ESP32-Boot-Mode-Selection>

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

# Bootstrap pins:

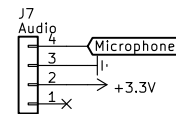
GPIO0 - H = SPI boot, L + GPIO2 L = Download boot  
GPIO2 - See above  
GPIO5 - See below  
MTDI (GPIO12) - H = 1.8V VDD\_SDIO, L = 3.3V (want L, default)  
MTDO (GPIO15) - Couple with IO5 to determine timing of SDIO slave

# OLED LCD



Connector is on the left  
Pin 1 is at the bottom

# Microphone



Microphone module

# Batteries

