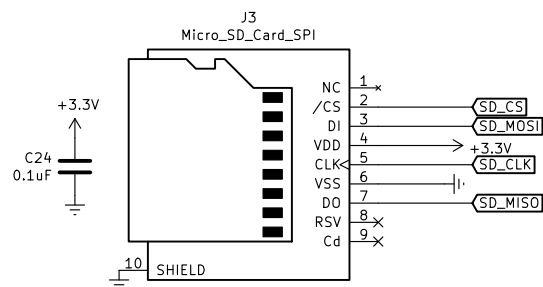
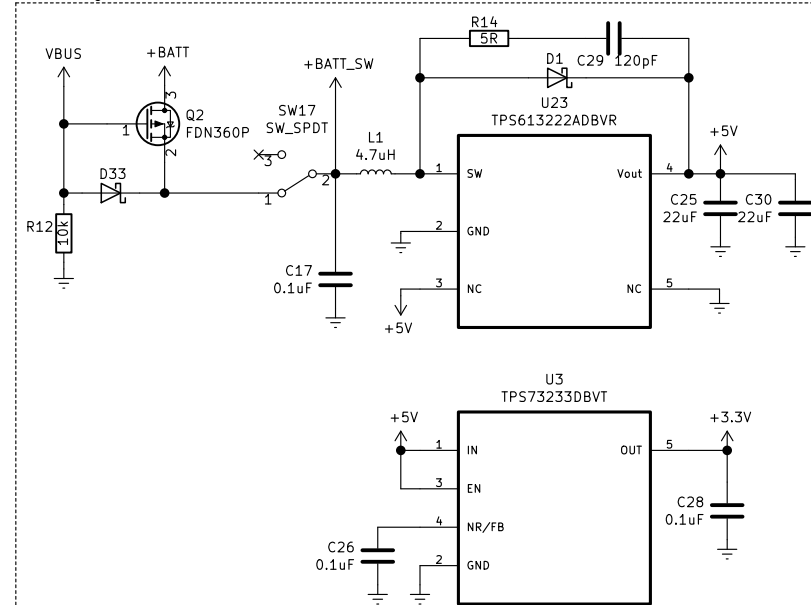


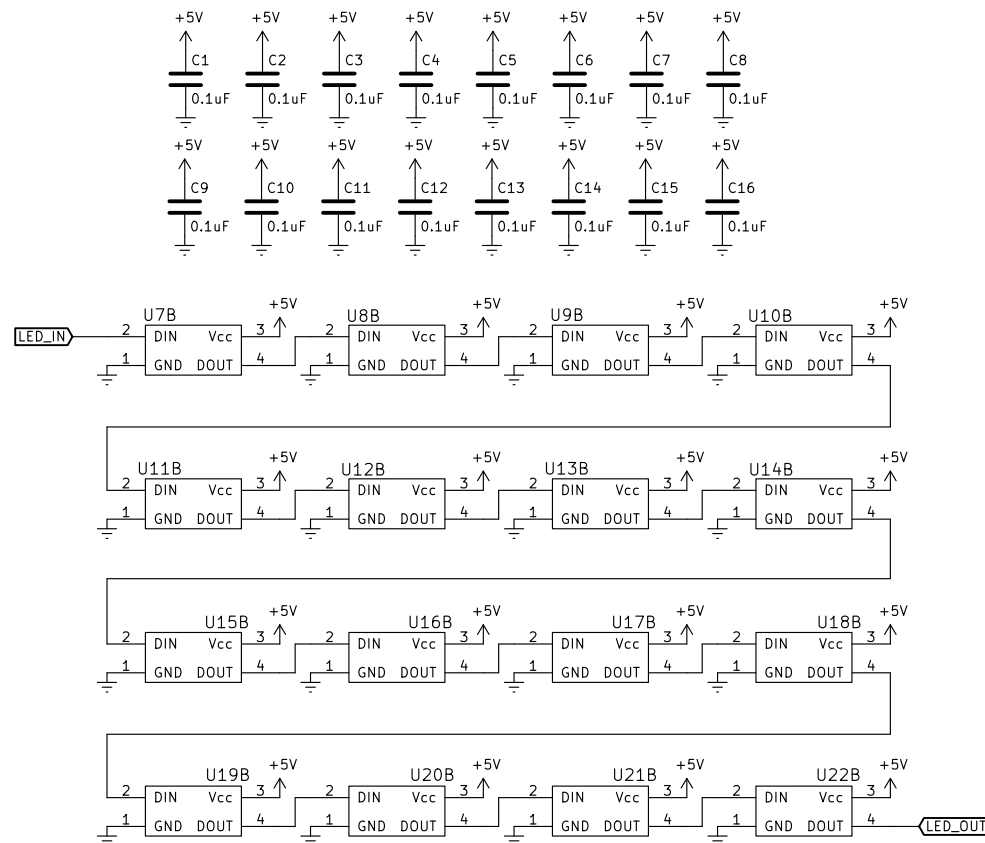
SD Card



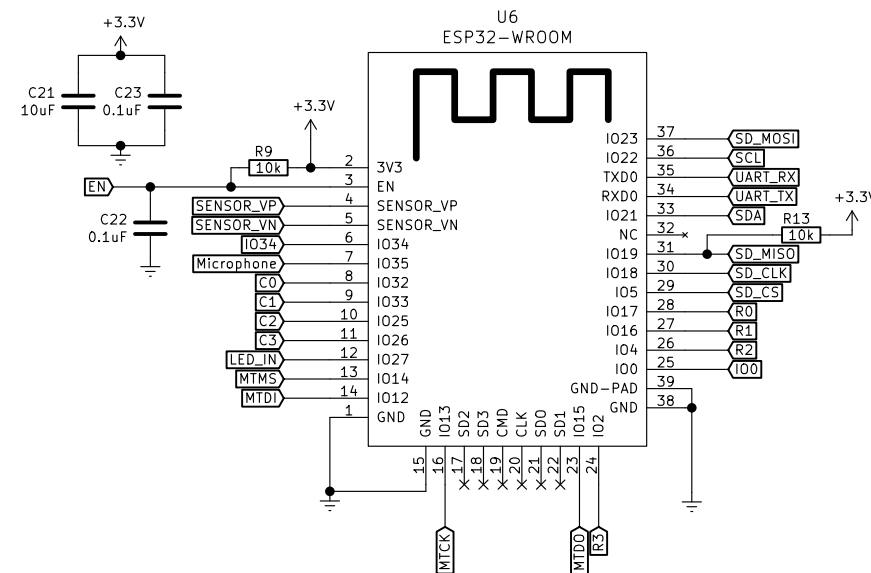
Power regulation



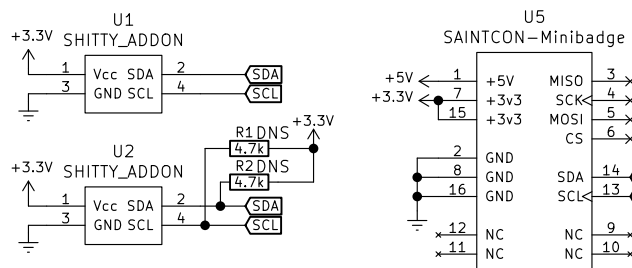
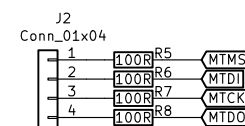
RGB LEDs



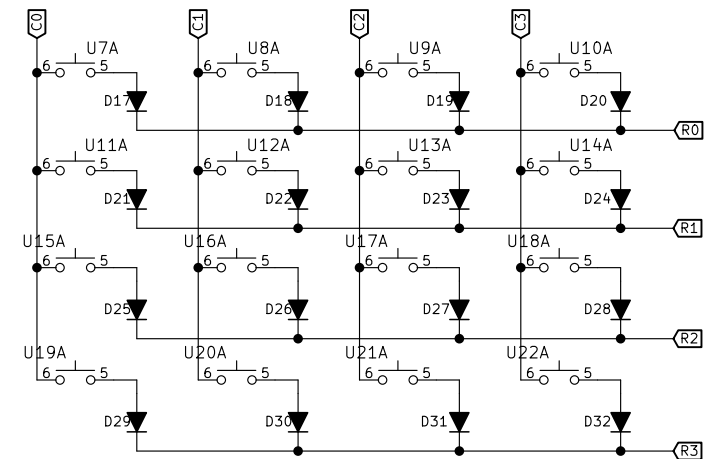
ESP32 Module



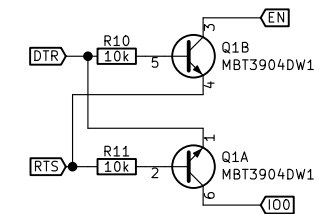
Addons

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

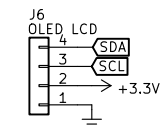
Bootstrap pins:

```

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

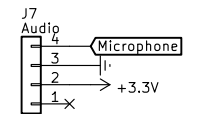
```

OLED LCD



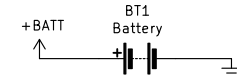
Connector is on the left
Pin 1 is at the bottom

Microphone



Microphone module

Batteries



Sheet: /

File: KeyGridBadge.sch

Title:	DCZIA Defcon 26 Badge
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Size: A3

KiCad E.D.A.	kiCad (5.0.0-rc2-dev-321-g78161b592)
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Rev:
Id: 1/1