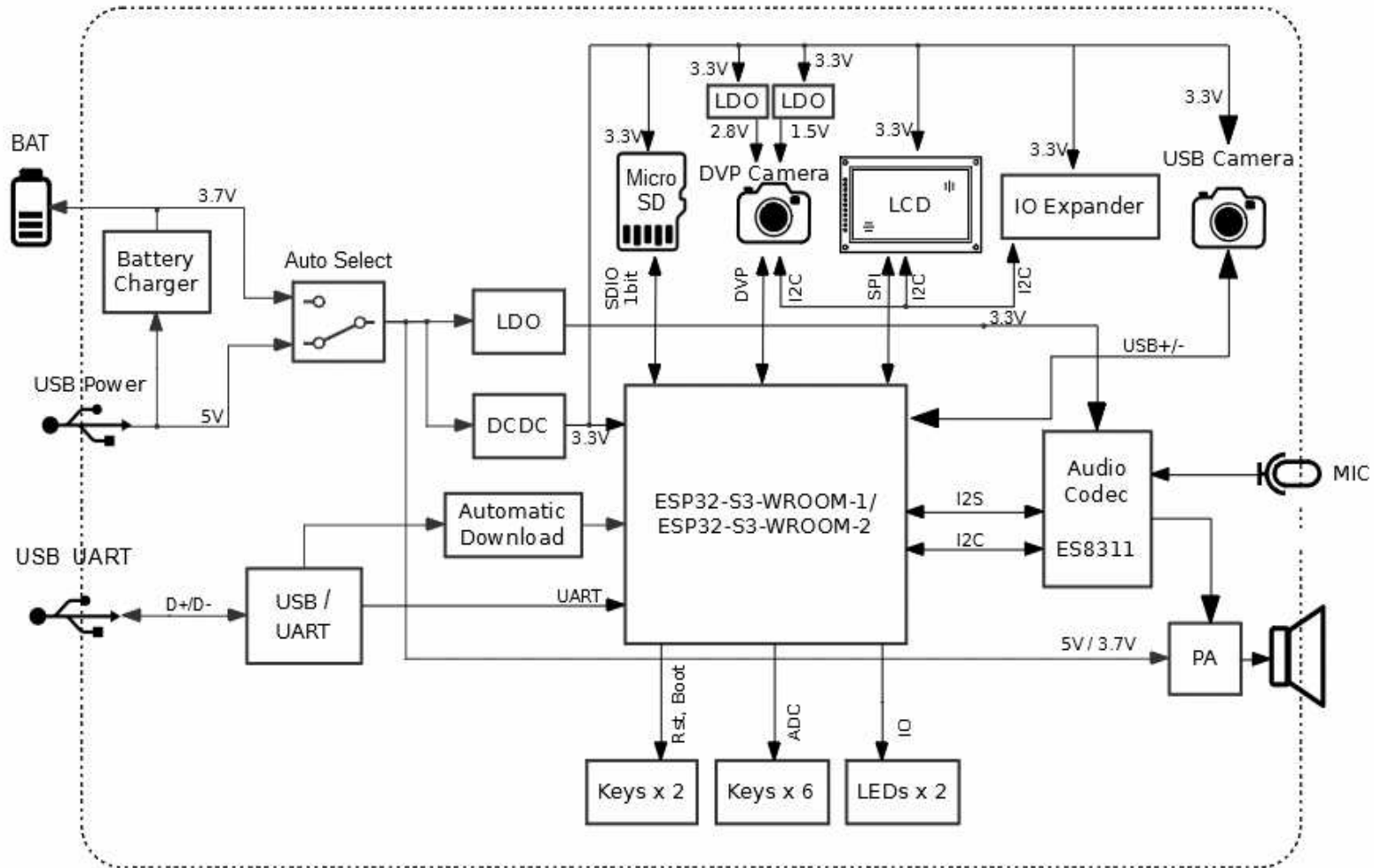
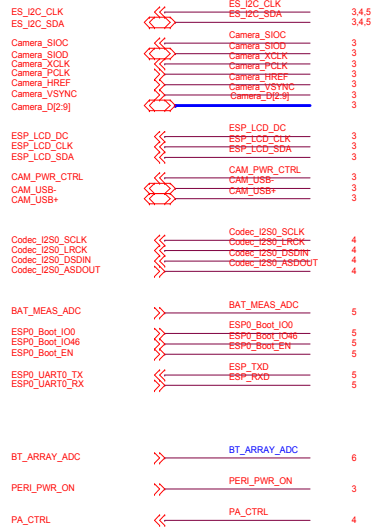


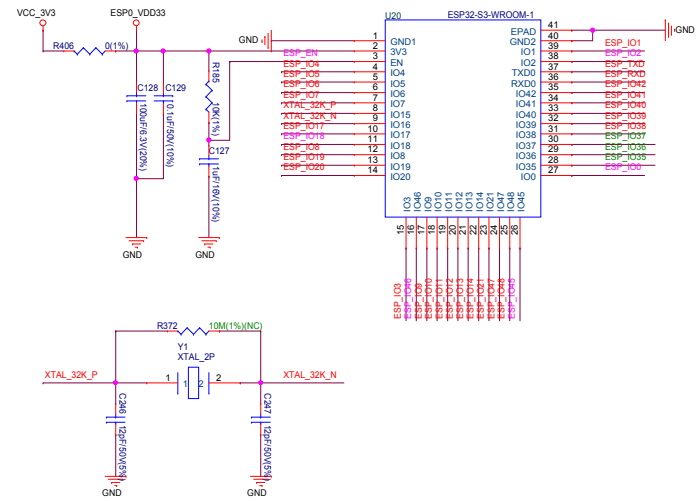
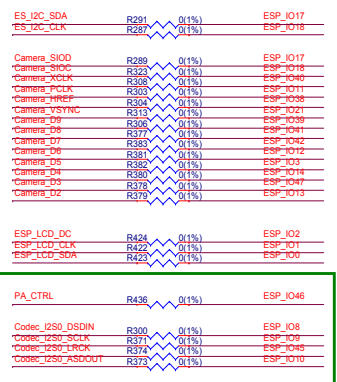
System Block:



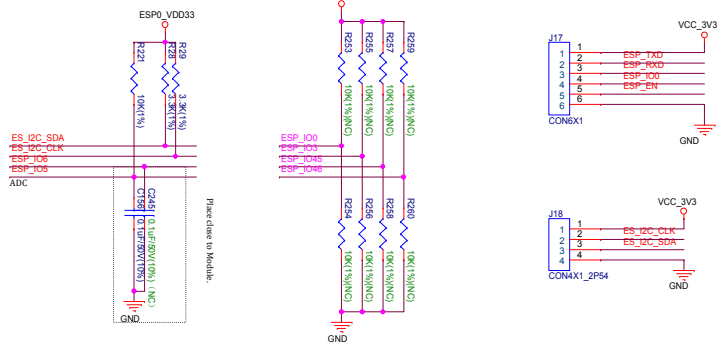
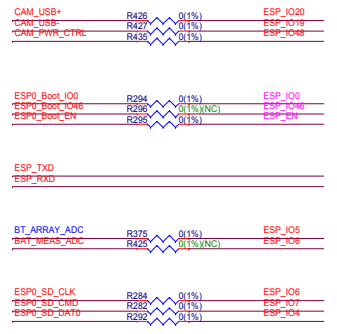
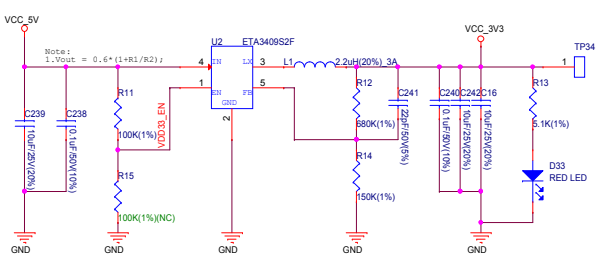


ESP32-S3-WROOM-1/ESP32-S3-WROOM-1U

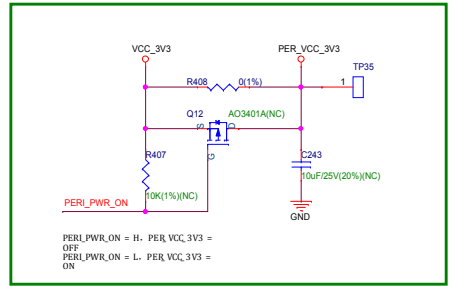
ESP Module Pin Configuration:



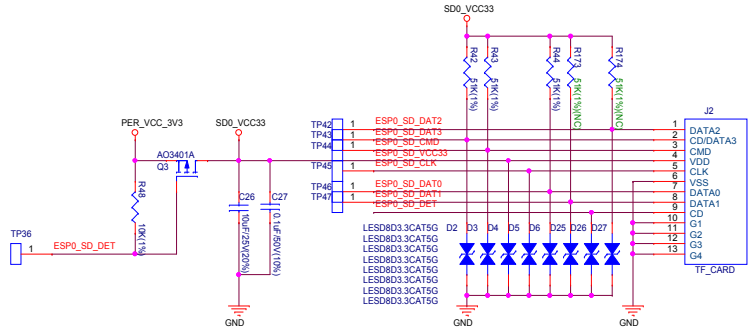
Power Regulator: 5 -> 3.3V



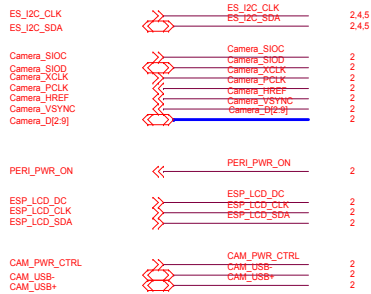
Peripherals Power:



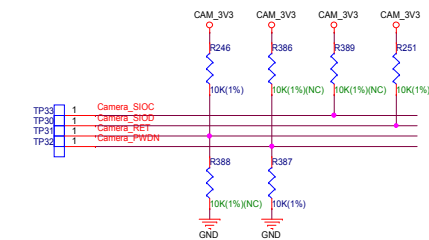
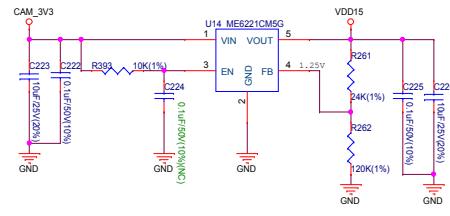
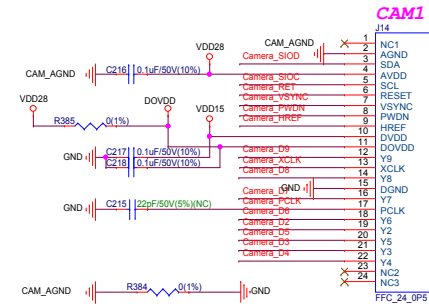
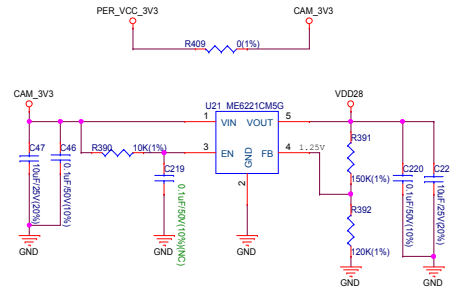
MicroSD Card:



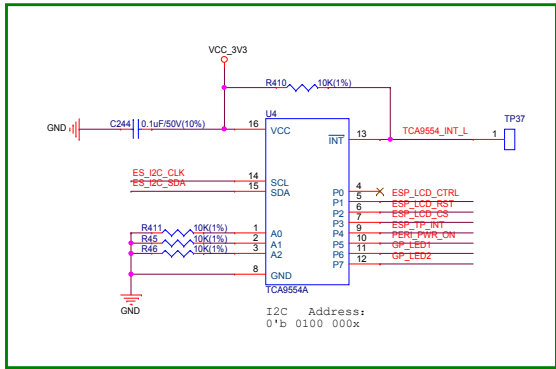
MicroSD Card SPI mode:
 1. DAT3 works as CS(chip select);
 2. GND works as DI(data in);
 3. CLK works as Clock;
 4. DAT0 works as DO(data out).



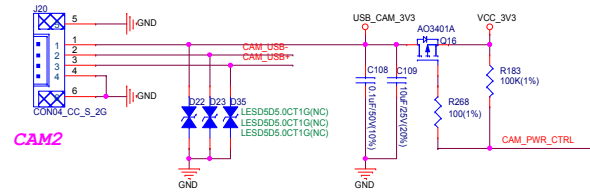
DVP Camera:



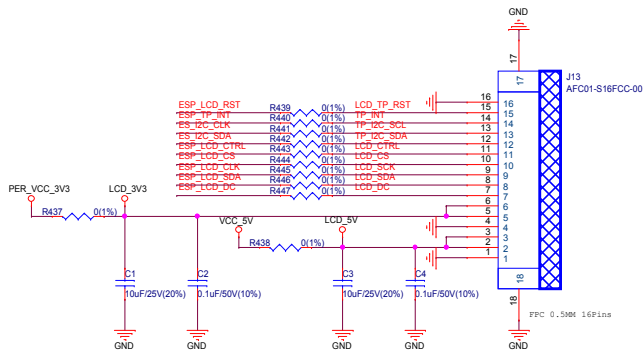
I/O Expander:



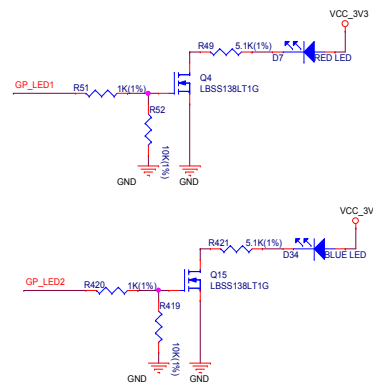
USB Camera:



FPC for LCD Display:

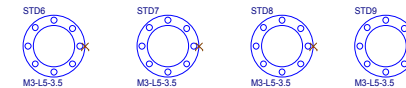


General LEDs:

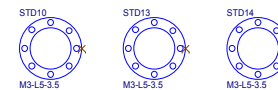


Location Holes:

Support Board



Support LCD



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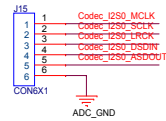
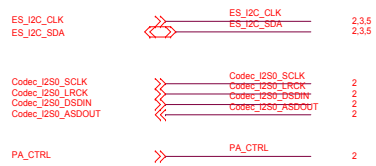
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File ESP32-S3-Korvo-ZL

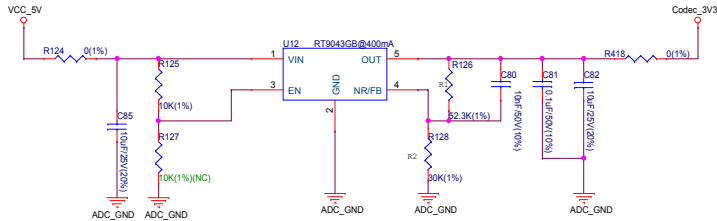
Size Document Number

C 03_CAM_LCD Rev 1.0

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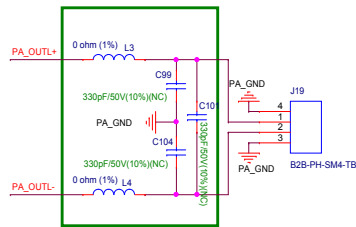
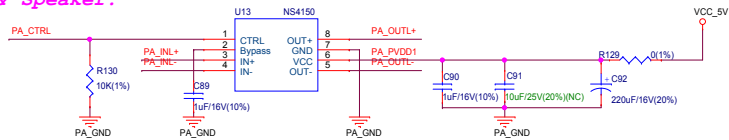


Power for Codec:



Notes:
1. $V_{out} = 1.20 * (1 + R1/R2) = 3.296V$;
R1=52.3K, R2=30.1K are recommended for better performance.

PA & Speaker:

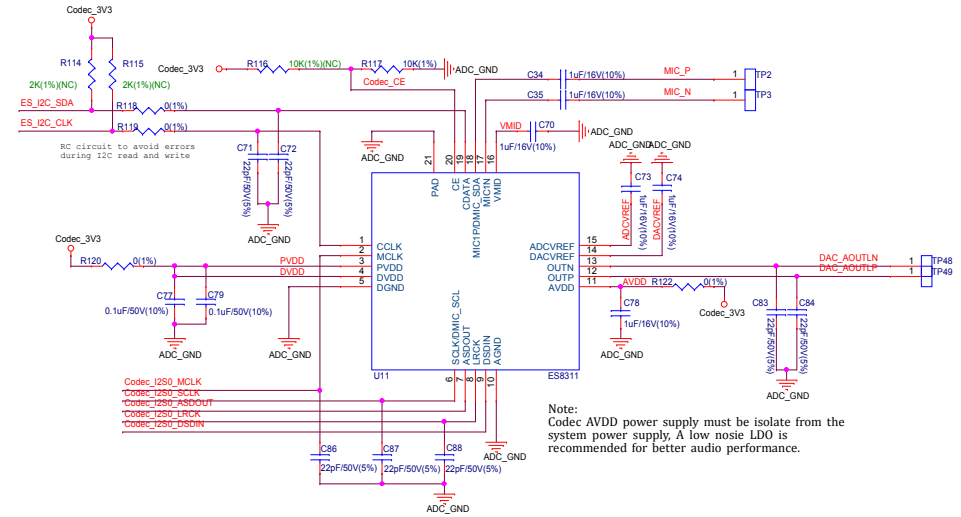


Note:
Place L3,L4,C99,C101,C104 close to PA



Note:
Place R432 as close as to battery or supply GND

Codec:

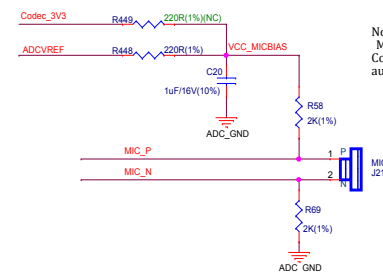


Note:
Codec AVDD power supply must be isolate from the system power supply. A low noise LDO is recommended for better audio performance.



Note:
Place R147 as close as to battery or supply GND

ECM MIC



Note:
MIC Micbias must be isolate from the system power supply. Codec ADCVREF or a low noise LDO is recommended for better audio performance.

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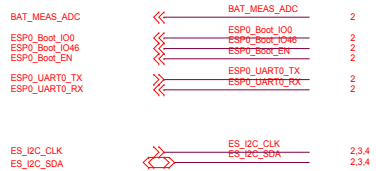
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ESP32-S3-Korvo-ZL

Size
C Document Number

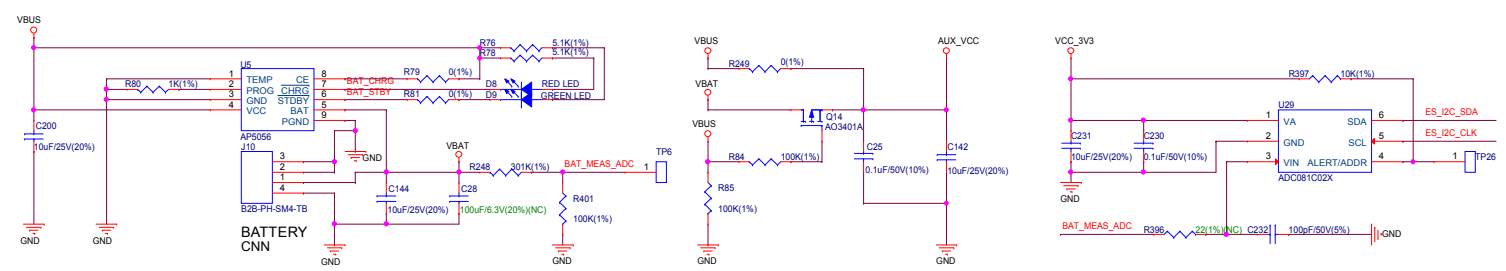
Date
Monday, August 15, 2022

Rev
1.0

Sheet
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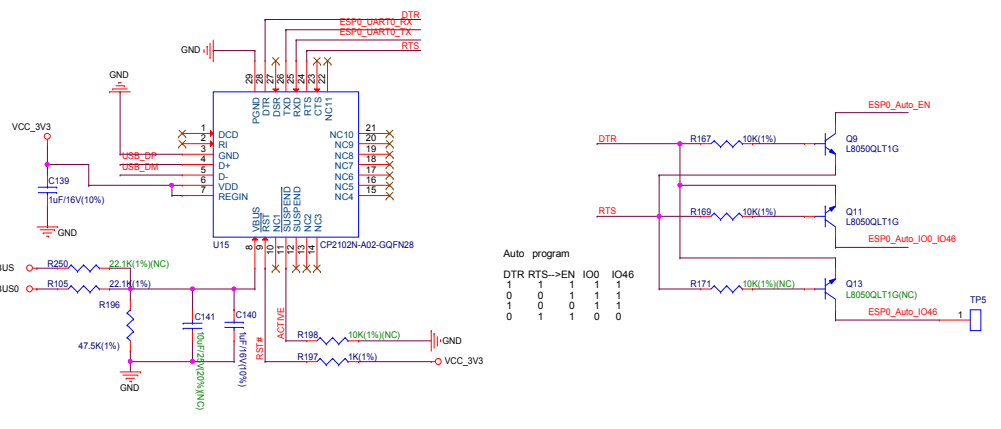
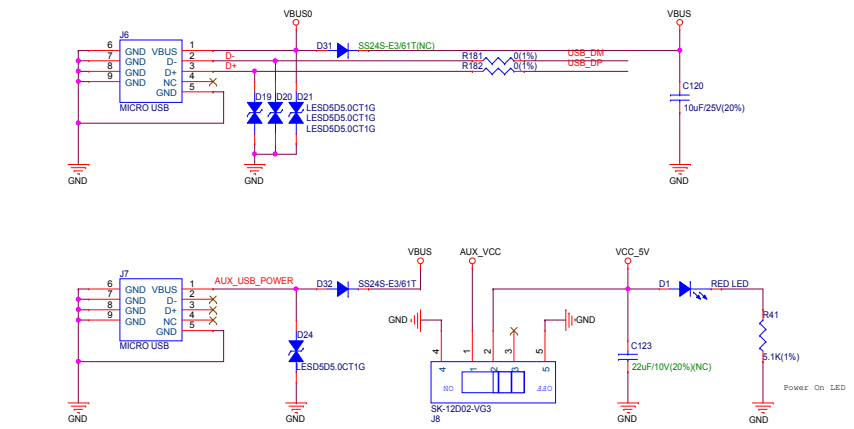


BATTERY:

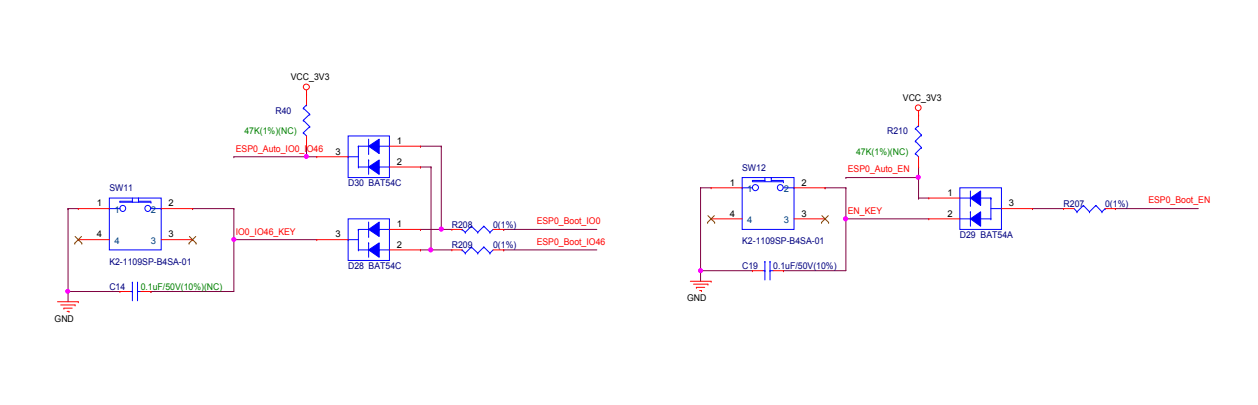


Power IN:

UART:



Reset & Download & Button:



BT_ARRAY_ADC ← BT_ARRAY_ADC 2

Button Array:

