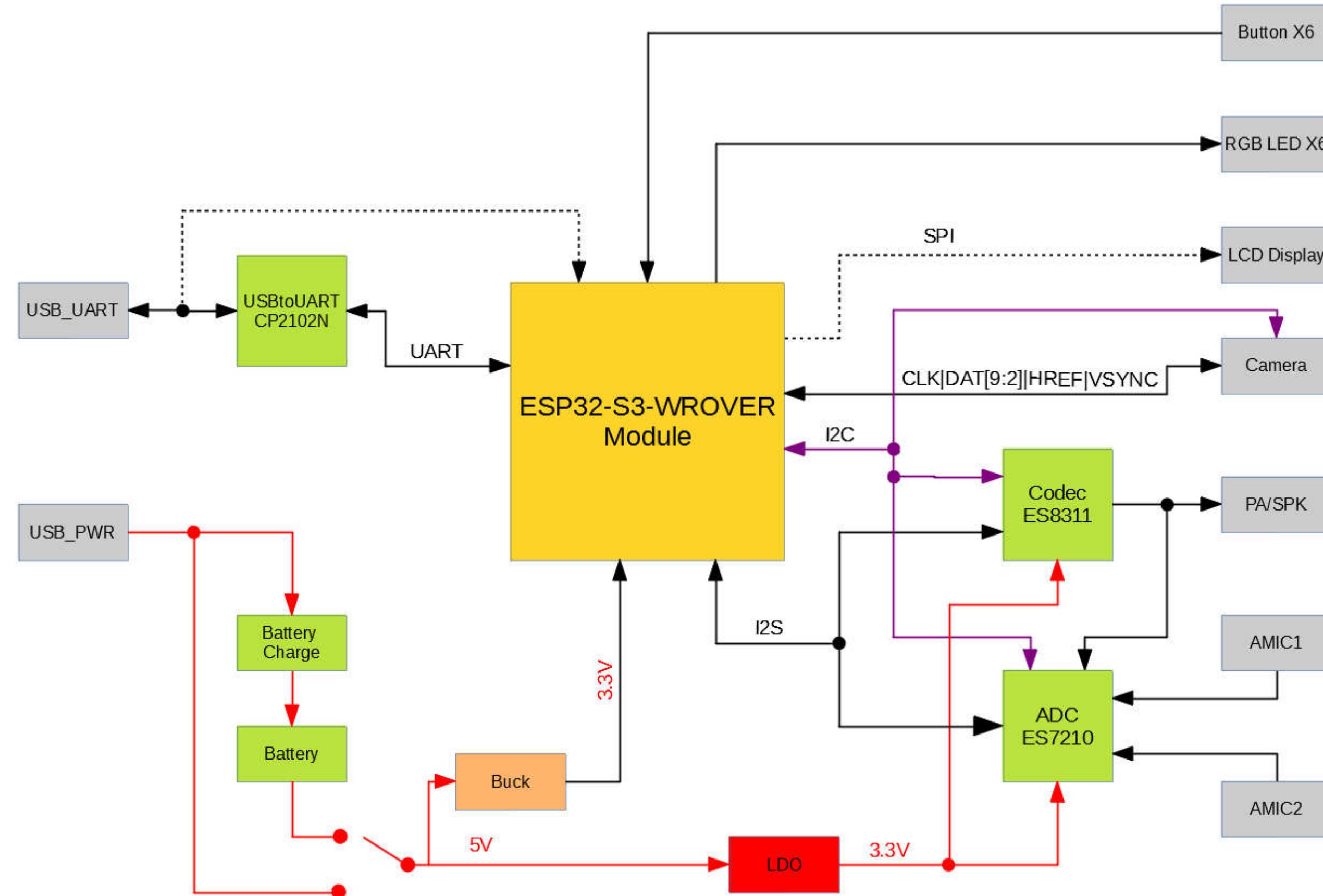
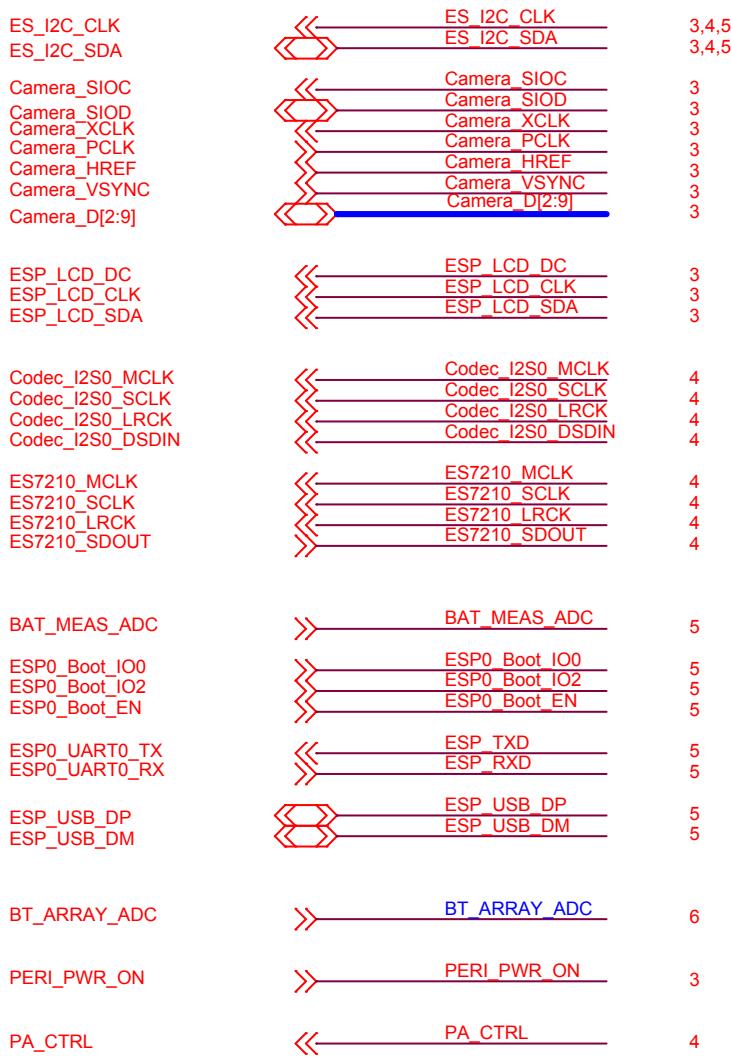
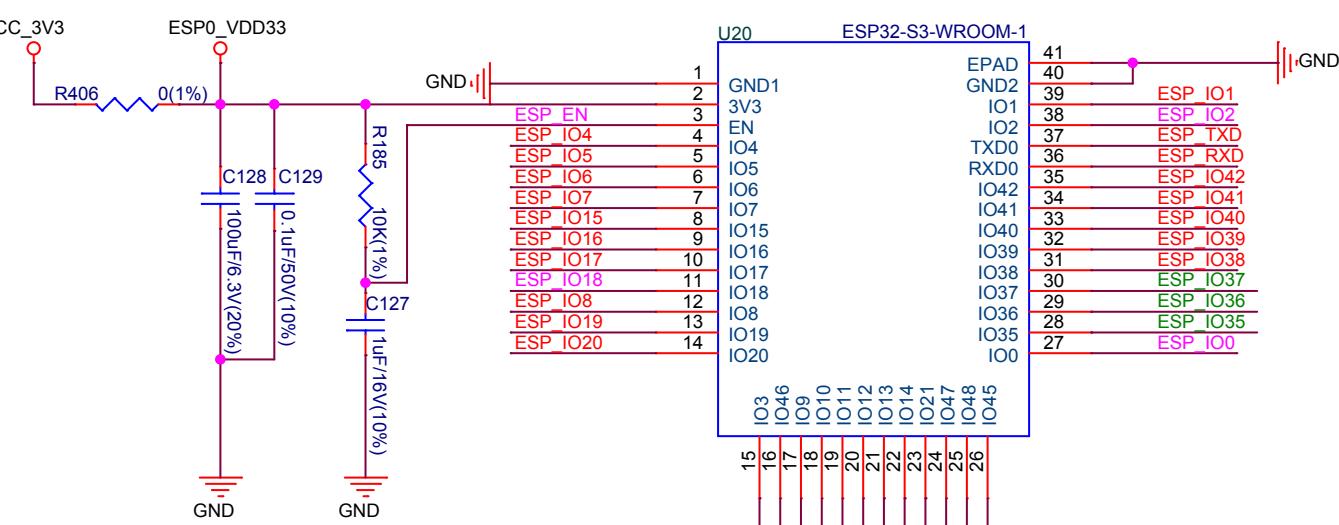


System Block:





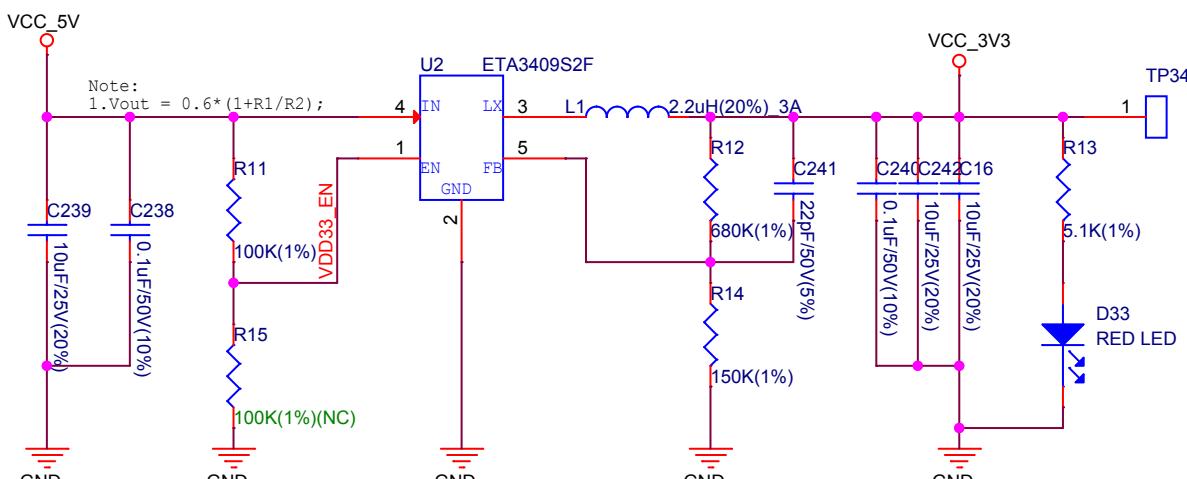
ESP32-WRVER/ESP32-724-WROVER/ESP32-S3-WROVER:



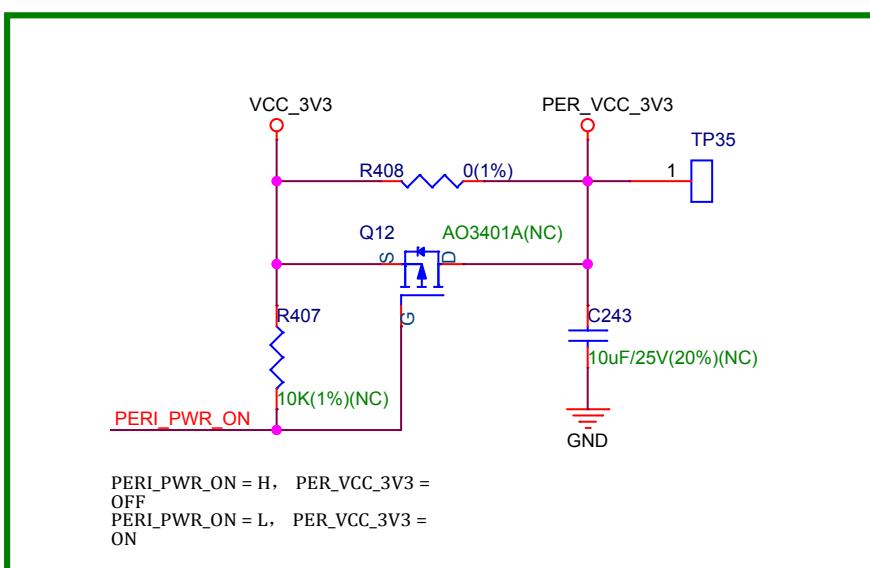
ESP Module Pin Configuration:

ES_I2C_SDA	R291	0(1%)	ESP IO17
ES_I2C_CLK	R287	0(1%)	ESP IO18
Camera_SIOD	R289	0(1%)	ESP IO17
Camera_SIOD	R323	0(1%)	ESP IO18
Camera_XCLK	R308	0(1%)	ESP IO40
Camera_PCLK	R303	0(1%)	ESP IO11
Camera_HREF	R304	0(1%)	ESP IO38
Camera_VSYNC	R313	0(1%)	ESP IO21
Camera_D9	R306	0(1%)	ESP IO39
Camera_D8	R376	0(1%)	ESP IO41
Camera_D7	R383	0(1%)	ESP IO42
Camera_D6	R382	0(1%)	ESP IO12
Camera_D5	R383	0(1%)	ESP IO3
Camera_D4	R380	0(1%)	ESP IO14
Camera_D3	R378	0(1%)	ESP IO47
Camera_D2	R379	0(1%)	ESP IO13
ESP_LCD_DC	R424	0(1%)	ESP IO2
ESP_LCD_CLK	R422	0(1%)	ESP IO1
ESP_LCD_SDA	R423	0(1%)	ESP IO0
ESP0_Boot_EN	R436	0(1%)(NC)	ESP IO20
Codec_I2S0_SCLK_R	R281	51(1%)(NC)	ESP IO2
Codec_I2S0_LRCK_R	R302	0(1%)(NC)	ESP IO1
Codec_I2S0_DSDIN	R300	0(1%)	ESP IO8
Codec_I2S0_MCLK	R434	0(1%)	Codec I2S0_SCLK_R
Codec_I2S0_SCLK	R428	0(1%)	Codec I2S0_LRCK_R
Codec_I2S0_LRCK	R430	0(1%)	
Codec_I2S0_LRCK	R429	0(1%)	
ES7210_MCLK	R372	0(1%)	ESP IO16
ES7210_SCLK	R371	0(1%)	ESP IO9
ES7210_LRCK	R374	0(1%)	ESP IO45
ES7210_SDOUT	R373	0(1%)	ESP IO10
PA_CTRL	R435	0(1%)	ESP IO48
BAT_MEAS_ADC	R425	0(1%)	ESP IO6
ESP0_Boot_I00	R294	0(1%)	ESP IO0
ESP0_Boot_I02	R296	0(1%)(NC)	ESP IO2
ESP0_Boot_EN	R295	0(1%)	ESP EN
ESP_TXD	ESP_RXD		
ESP_USB_DP	R426	0(1%)	ESP IO20
ESP_USB_DM	R427	0(1%)	ESP IO19
BT_ARRAY_ADC	R375	0(1%)	ESP IO5
ESPO_SD_CLK	R284	0(1%)	ESP IO15
ESPO_SD_CMD	R285	0(1%)	ESP IO7
ESPO_SD_DAT0	R292	0(1%)	ESP IO4

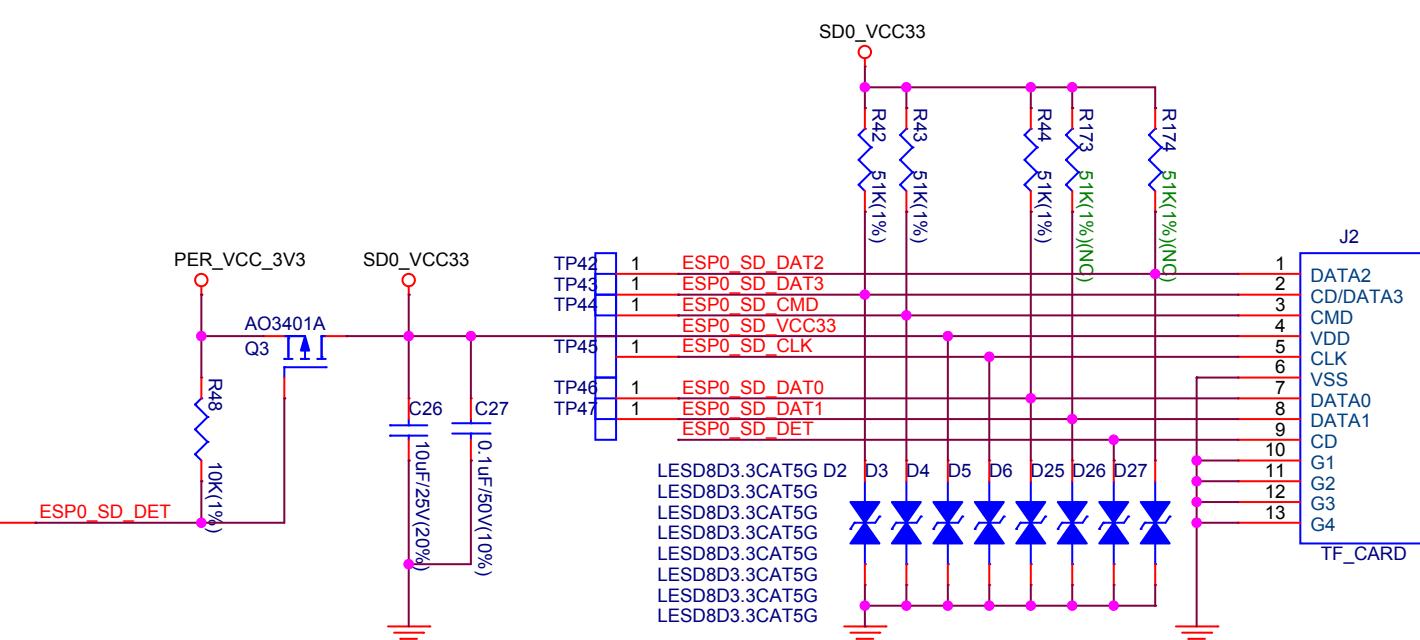
Power Regulator: 5 → 3.3V



Peripherals Power:



MicroSD Card:



MicroSD Card SPI mode:
1. DAT3 works as CS(chip select);
2. CMD works as DI(Data In);
3. CLR works as SCK;
4. DAT0 works as DO(Data out).

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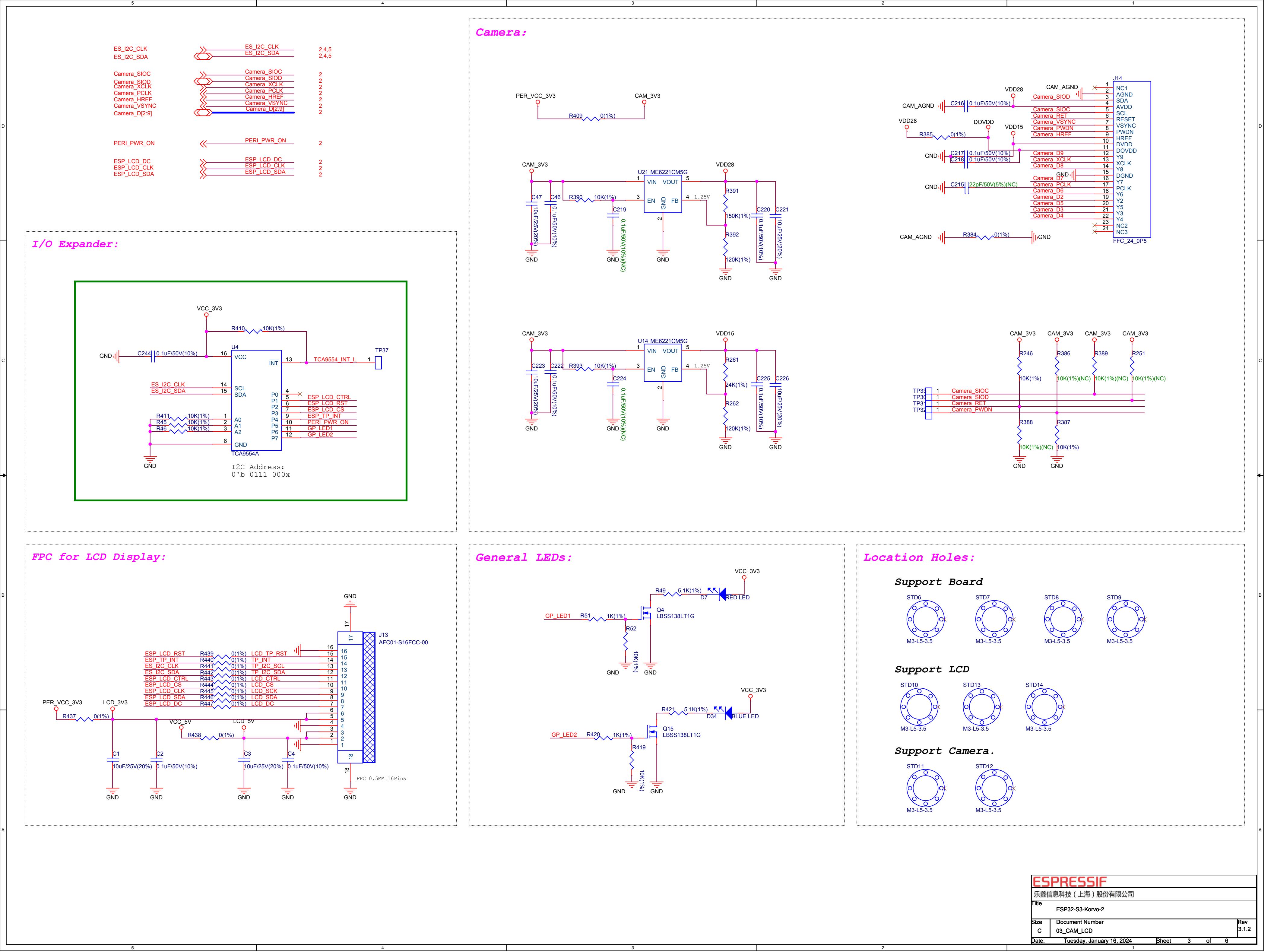
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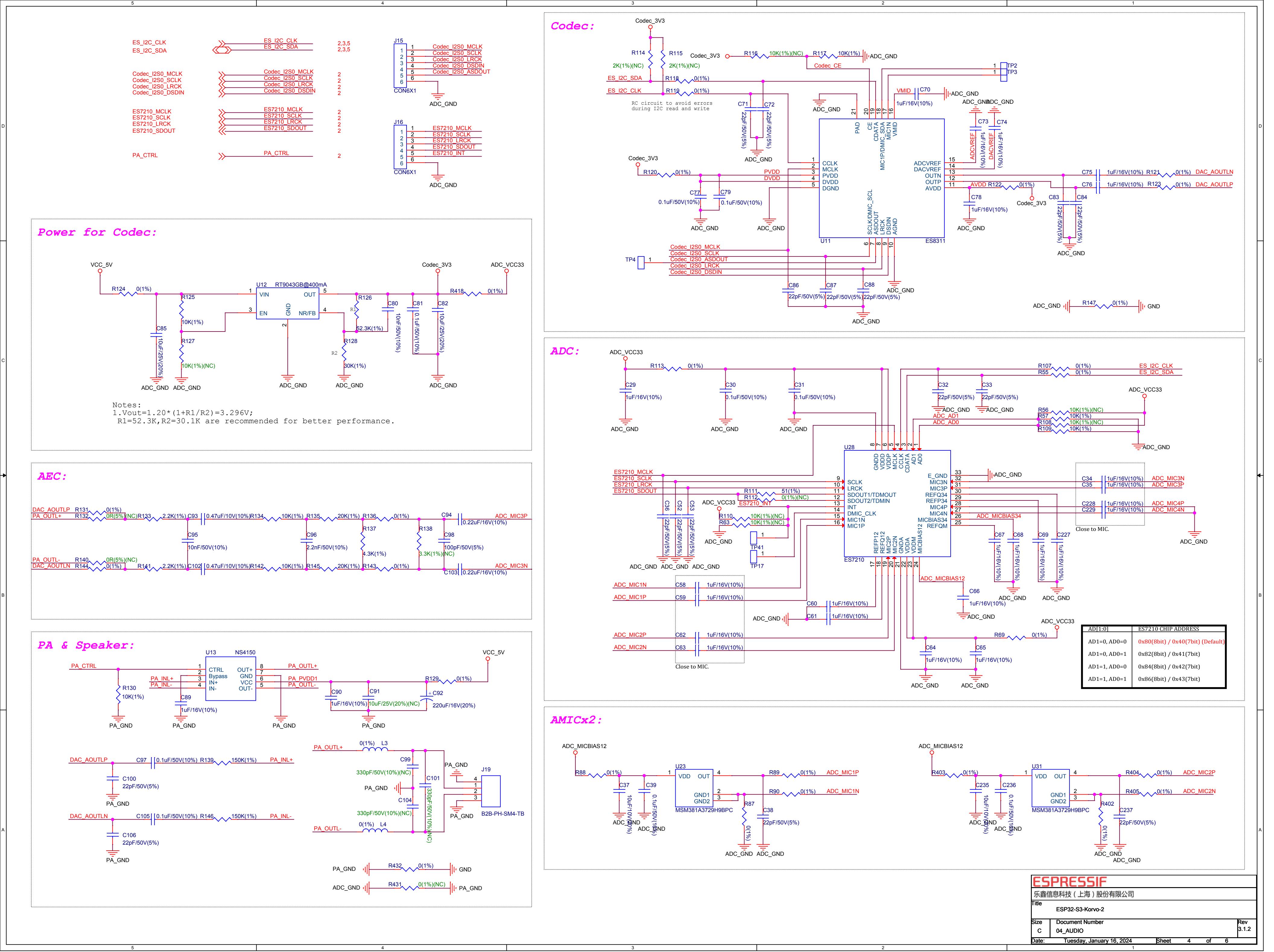
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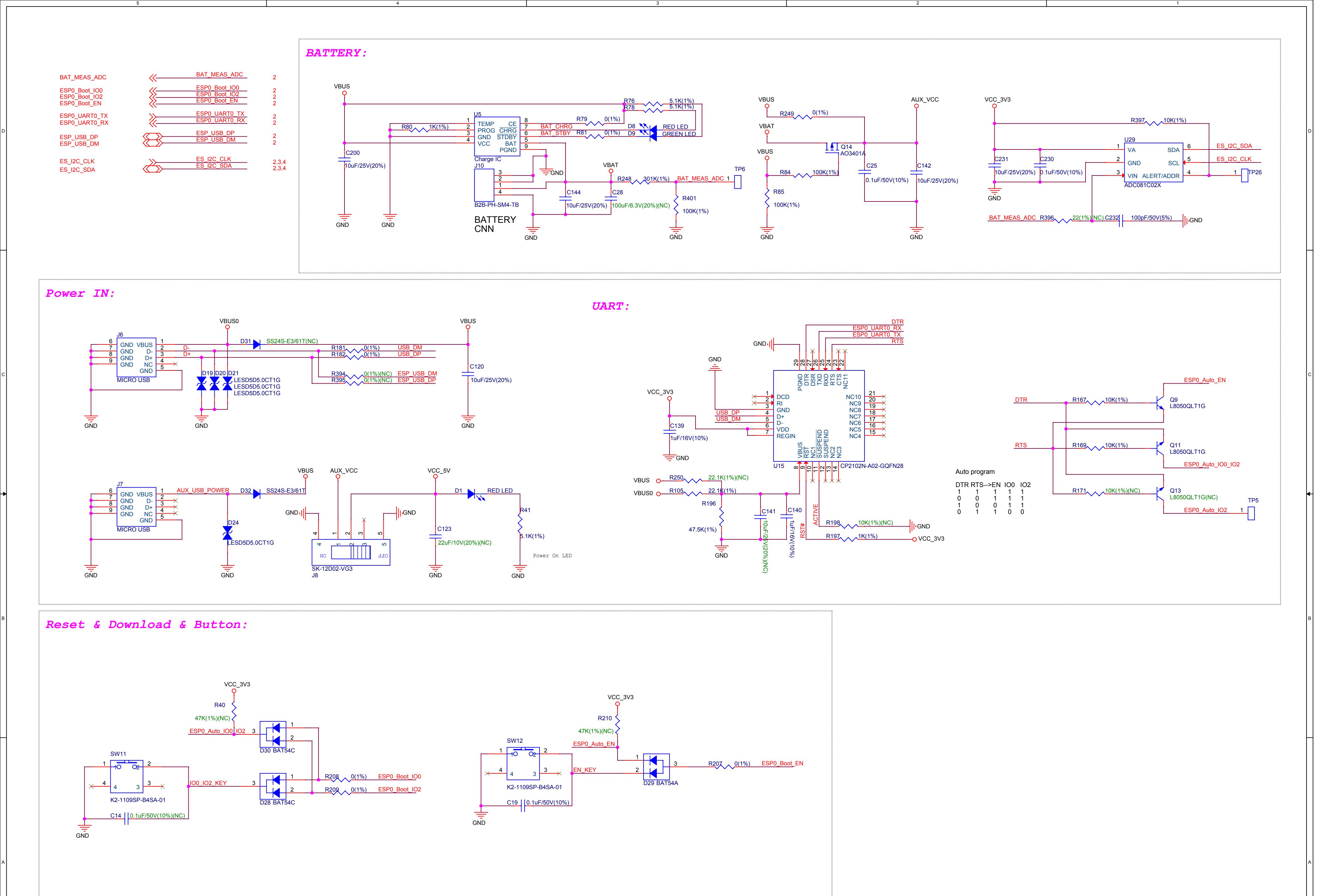
Date: Tuesday, January 16, 2024

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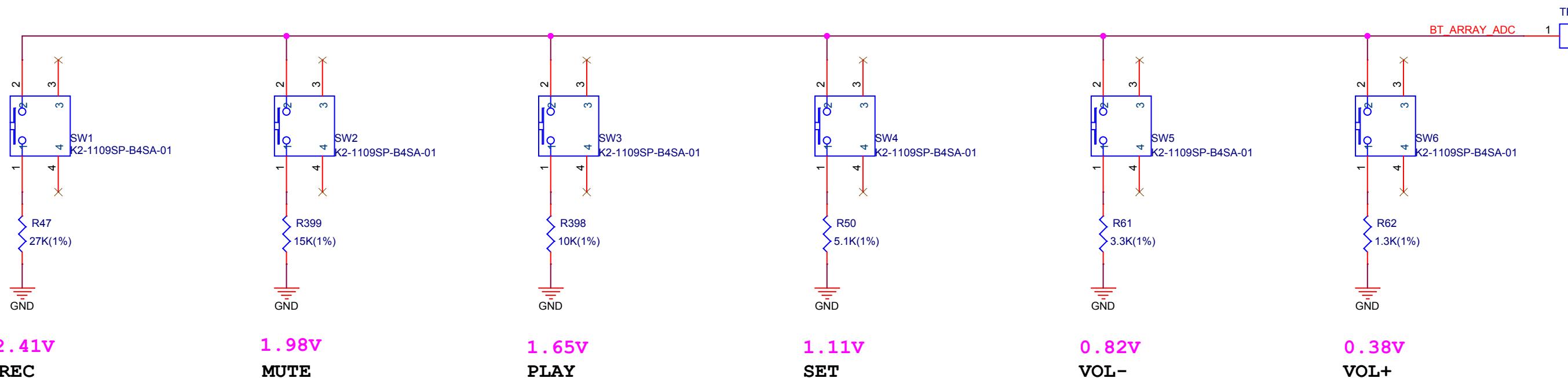


BT_ARRAY_ADC

BT_ARRAY_ADC

2

Button Array:



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Title ESP32-S3-Korvo-2

Size C Document Number

06_BUTTON_LEDS

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Date: Tuesday, January 16, 2024 Sheet 6 of 6