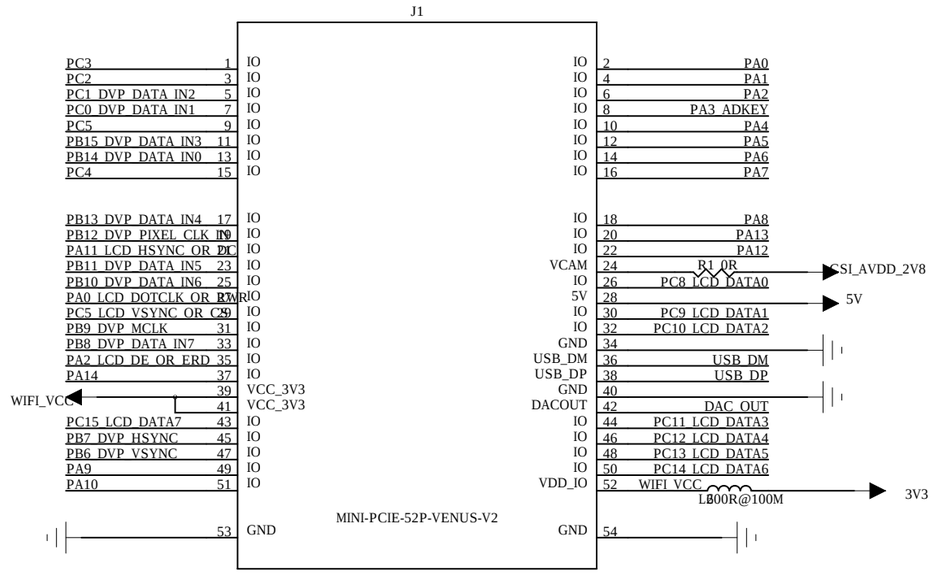
Version	Revised records	Date	Design
V1.0	初始版本发布，新增元器件属性。原理图内部受控，不可外发		
V1.2	新增一组ADKEY,修正原来一些网络连接错误		

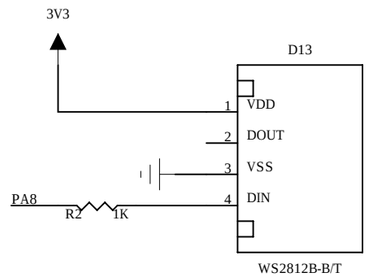
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WIFI CORE BOARD

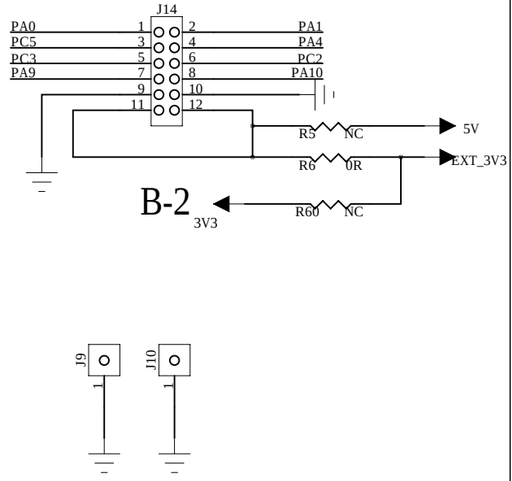


TXW818_C04L-V1.1

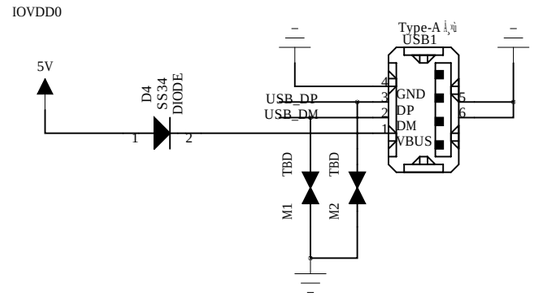
RGB LED



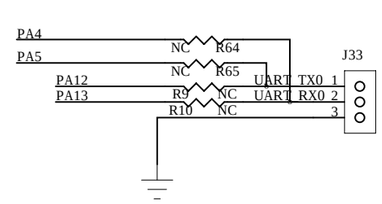
GPIO



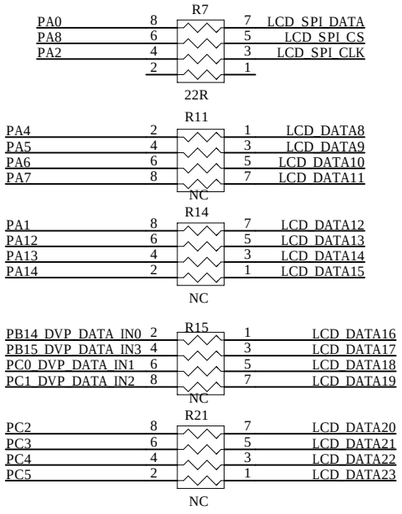
USB 2.0



UART



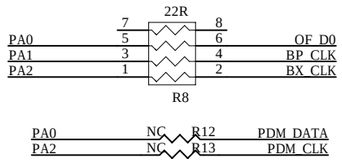
LCD OPTIONS



	R7	R8	R11	R14	R15	PART1	PART2	PART3	PART4
MCU 8BIT	NC	22R	NC	NC	NC	√	√	√	√
RGB 8BIT	22R	NC	NC	NC	NC	-	√	√	√
RGB 16BIT	22R	NC	22R	22R	NC	-	√	-	-
RGB 24BIT	22R	NC	22R	22R	22R	-	-	-	-

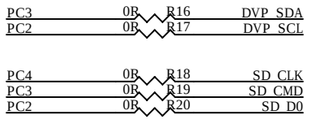
学习板硬件支持不同的屏幕配置需要确认复用电阻的改动；
涉及到某些功能的复用关系，可根据方案实际调整IO功能
√：功能支持　-：不支持或者需要调整IO

PART1



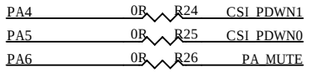
光流镜头和数字mic是二选一

PART2



DVP接口I2C和SD卡IO复用

PART3

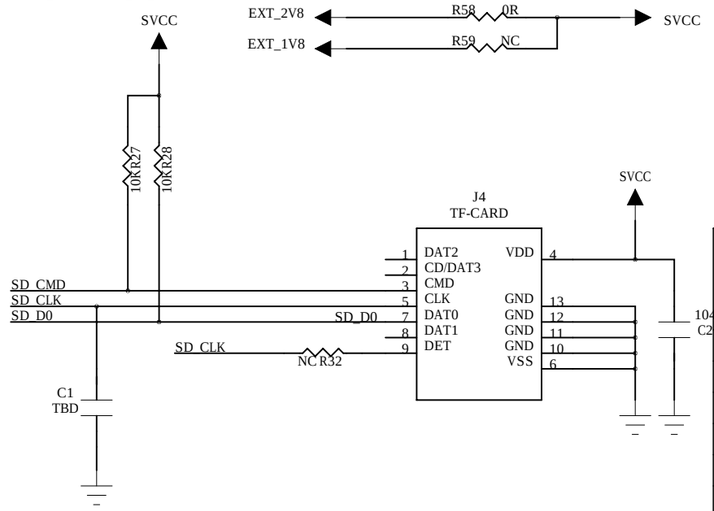


DVP接口I2C和SD卡IO复用

PART4

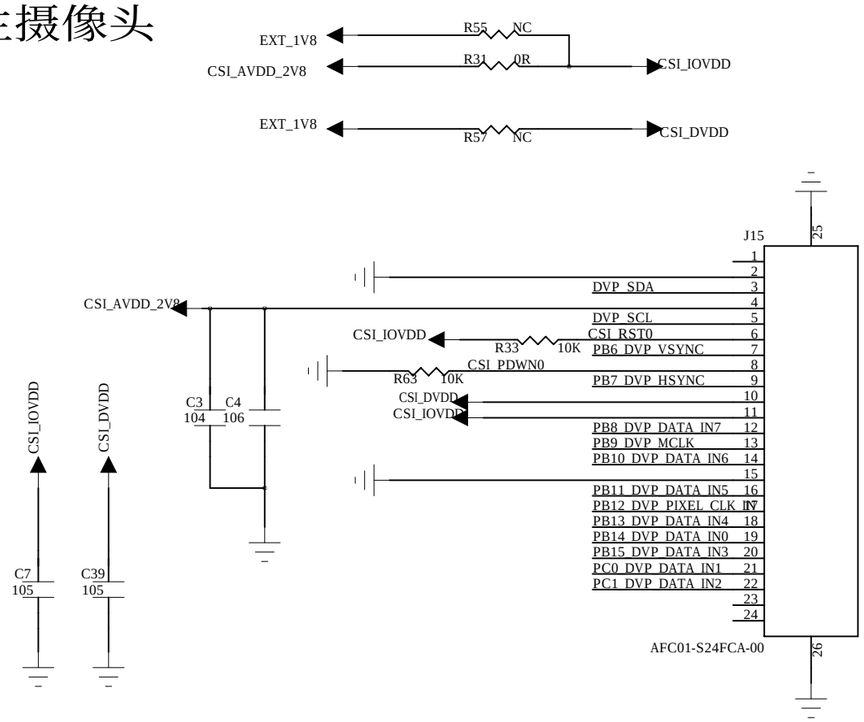


SD HOST

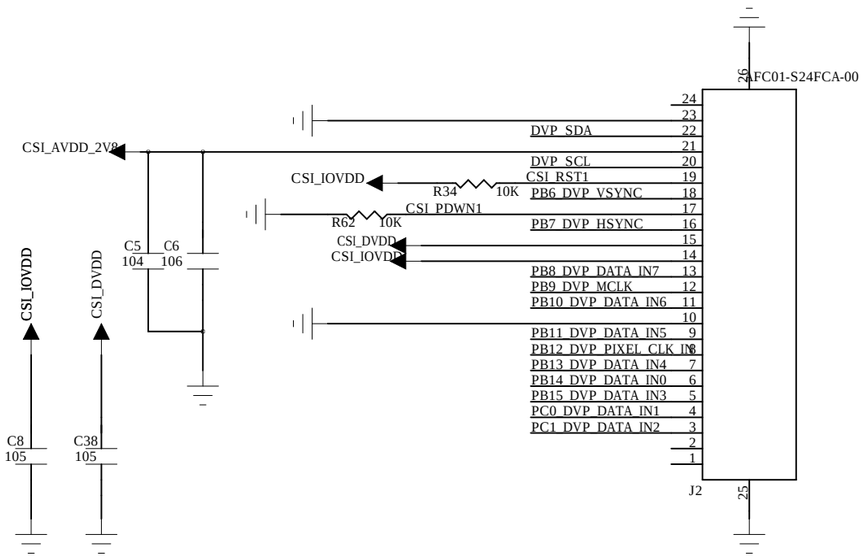


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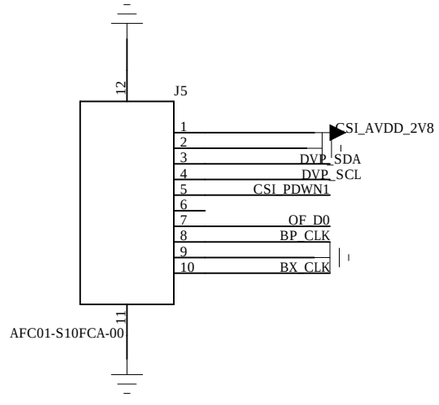
主摄像头



副摄像头

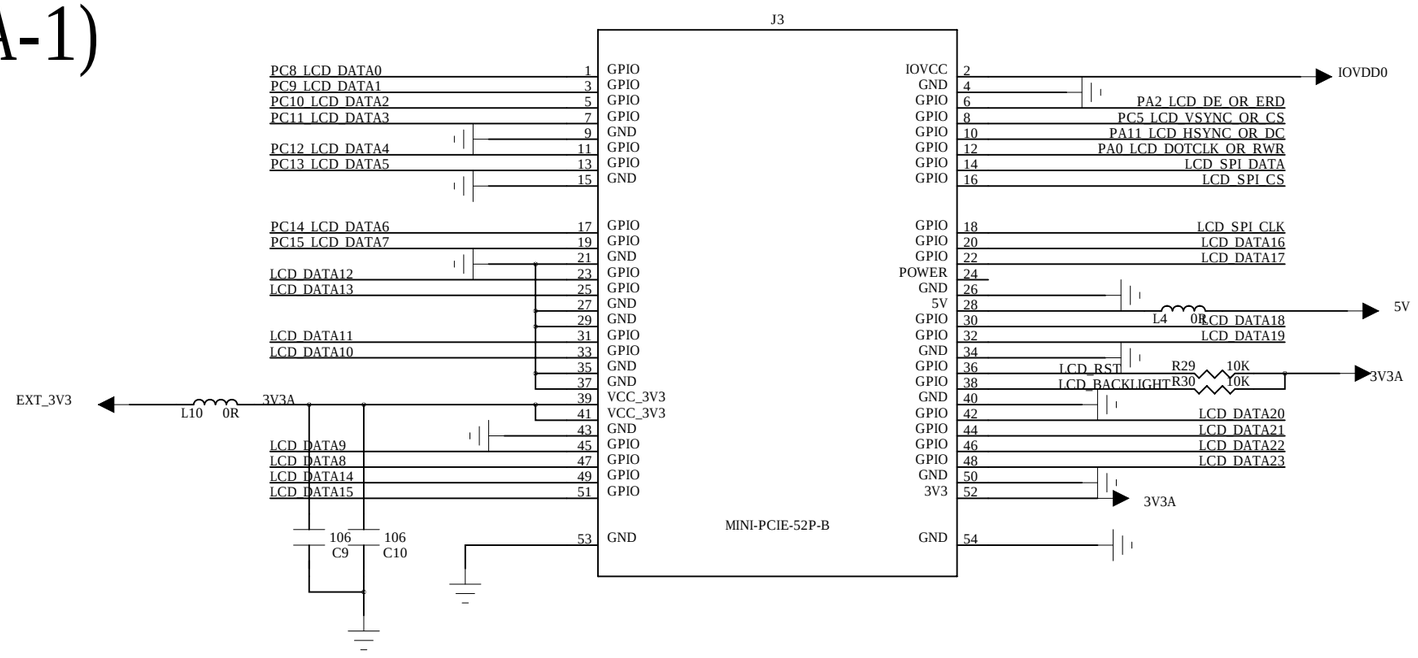


光流



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LCD INTERFACE(A-1)



1.LCD 接口最大支持24bit RGB SPI屏幕；
2.如若不需要屏幕显示，该接口可以做其他的功能拓展接口，如RMII网口等；

管脚			
1	GPIO	PC8	LCD_DATA0
3	GPIO	PC9	LCD_DATA1
5	GPIO	PC10	LCD_DATA2
7	GPIO	PC11	LCD_DATA3
9	GND	GND	GND
11	GPIO	PC12	LCD_DATA4
13	GPIO	PC13	LCD_DATA5
15	GND	GND	GND
17	GPIO	PC14	LCD_DATA6
19	GPIO	PC15	LCD_DATA7
21	GND	GND	GND
23	GPIO	R14_PA1	LCD_DATA12
25	GPIO	R14_PA12	LCD_DATA13
27	GND	GND	GND
29	GND	GND	GND
31	GPIO	R11_PA7	LCD_DATA11
33	GPIO	R11_PA6	LCD_DATA10
35	GND	GND	GND
37	GND	GND	GND
39	VCC_3V3	3V3	3V3
41	VCC_3V3	3V3	3V3
43	GND	GND	GND
45	GPIO	R11_PA5	LCD_DATA9
47	GPIO	R11_PA4	LCD_DATA8
49	GPIO	R14_PA14	LCD_DATA14
51	GPIO	R14_PA15	LCD_DATA15
53	GND	GND	GND

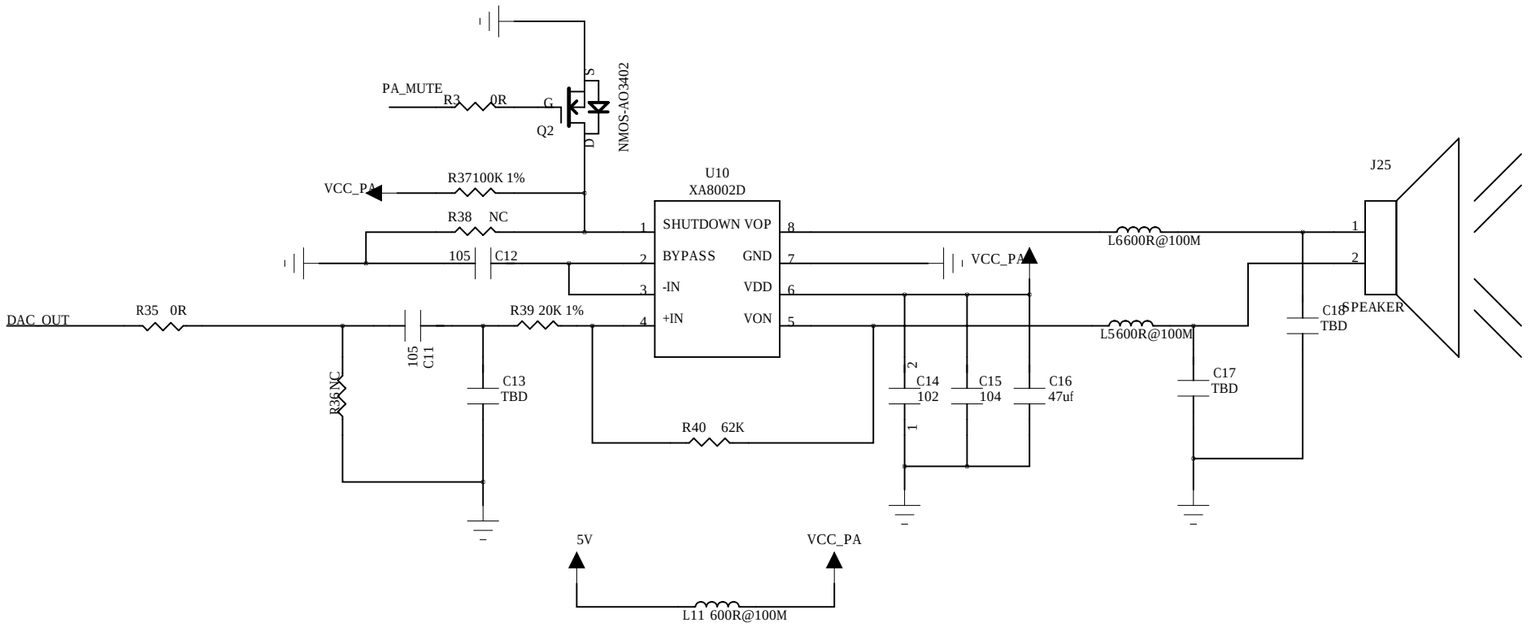
管脚			
2	IOVCC	IOVCC	3V3
4	GND	GND	GND
6	GPIO	PA2	LCD_DE_OR_ERD
8	GPIO	PC5	LCD_VSYNC_OR_CS
10	GPIO	PA11	LCD_HSYNC_OR_DC
12	GPIO	PA0	LCD_DOTCLK_OR_RWR
14	GPIO	R7_PA0	LCD_SPI_DATA
16	GPIO	R7_PA8	LCD_SPI_CS
18	GPIO	R7_PA2	LCD_SPI_CLK
20	GPIO	R15_PB14	LCD_DATA16
22	GPIO	R15_PB15	LCD_DATA17
24	POWER	NC	NC
26	GND	GND	GND
28	5V	5V	5V
30	GPIO	R15_PC0	LCD_DATA18
32	GPIO	R15_PC1	LCD_DATA19
34	GND	GND	GND
36	GPIO	R23_PA9	LCD_RST
38	GPIO	R22_PA2	LCD_BACKLIGHT
40	GND	GND	GND
42	GPIO	R21_PC2	LCD_DATA20
44	GPIO	R21_PC3	LCD_DATA21
46	GPIO	R21_PC4	LCD_DATA22
48	GPIO	R21_PC5	LCD_DATA23
50	GND	GND	GND
52	3V3	3V3	3V3
54	GND	GND	GND

1.绿色是板子默认支持的8bit MCU屏幕；
2.除去电源和GND以外，其他的拓展功能均要确认"R11_PA5"等信号，前缀电阻位号"R11"等OPTIONS电阻焊接；

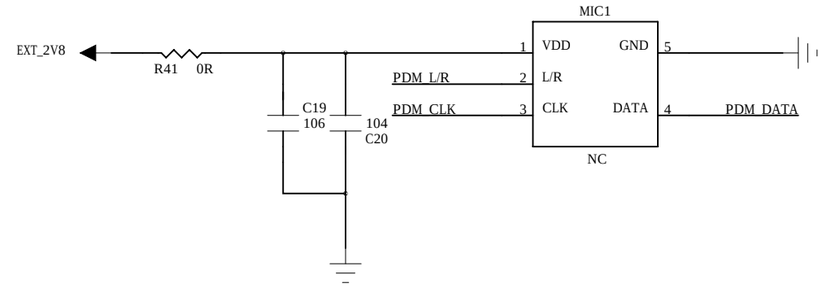
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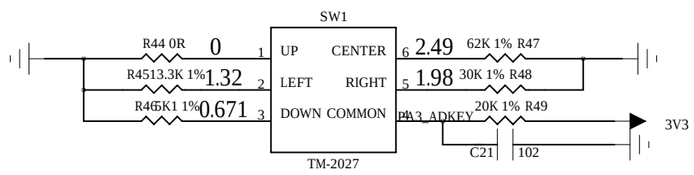
AUDIO PA



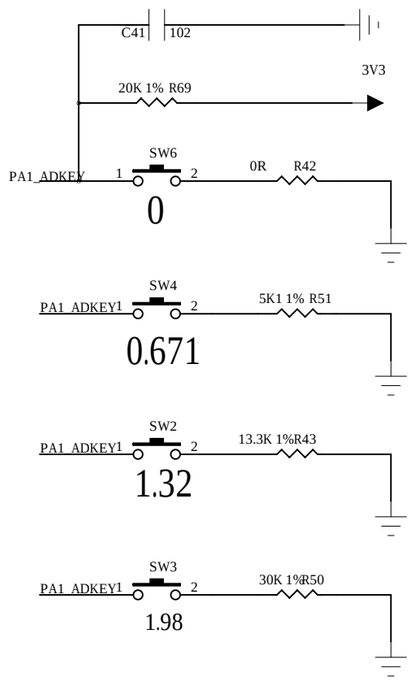
DIGITAL MIC

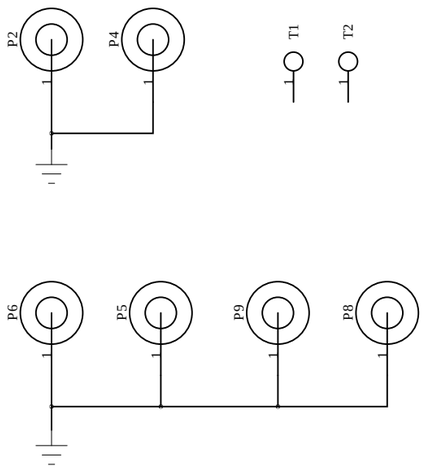


ADKEY 0



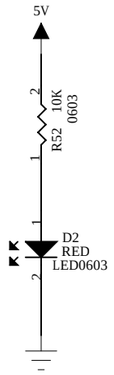
ADKEY 1

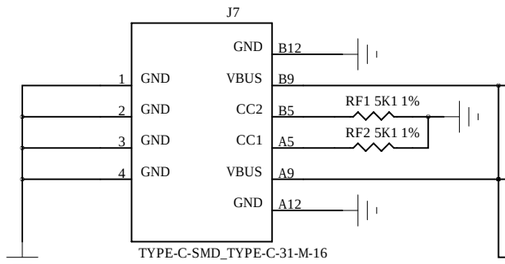




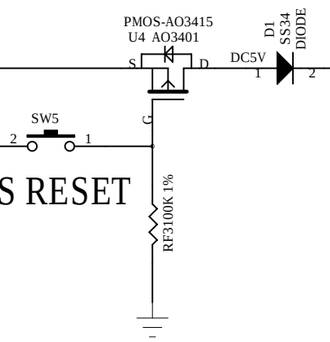
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5V INPUT

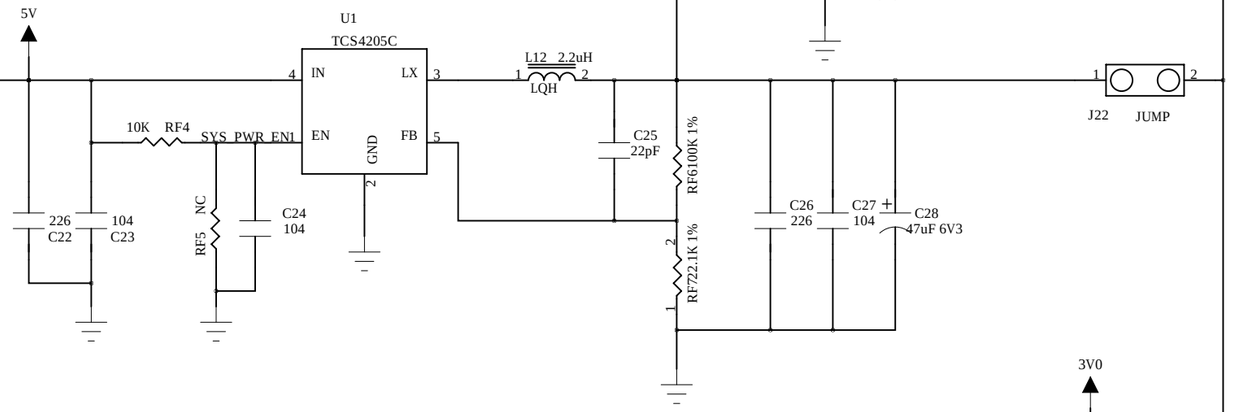




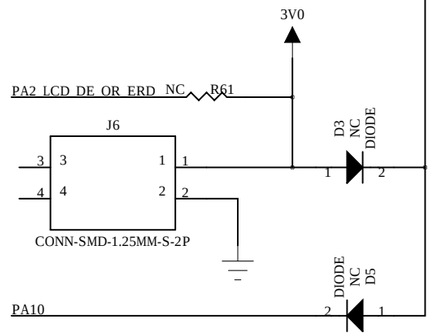
SYS RESET



DCDC 3V3

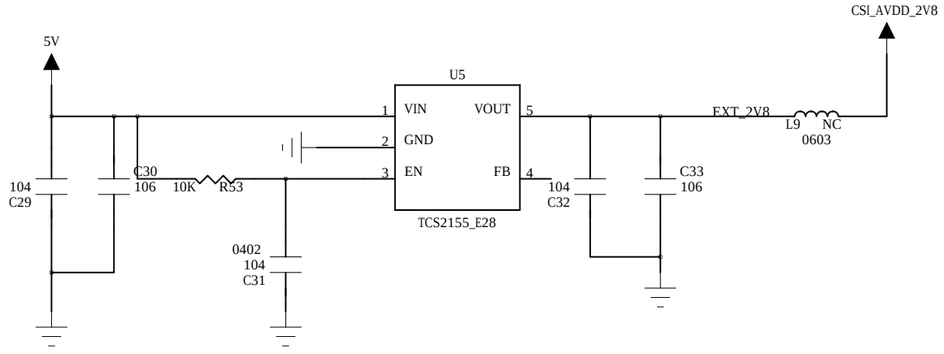


COM_P1

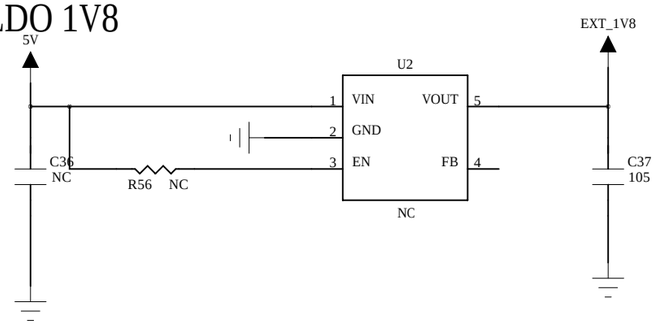


COM_N1

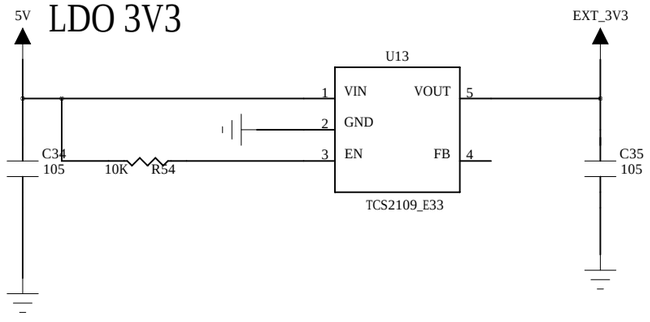
LDO 2V8



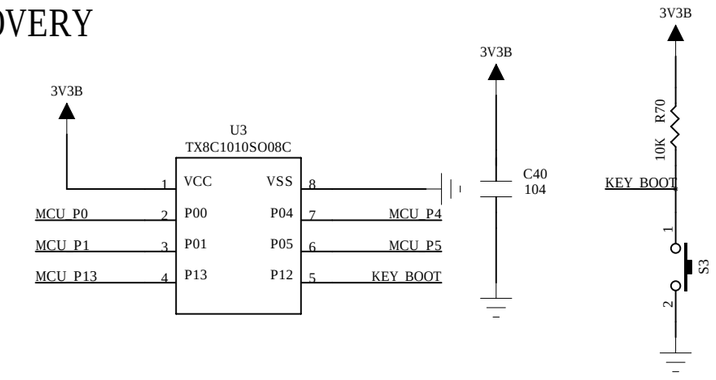
LDO 1V8

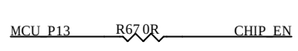


LDO 3V3



RECOVERY





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