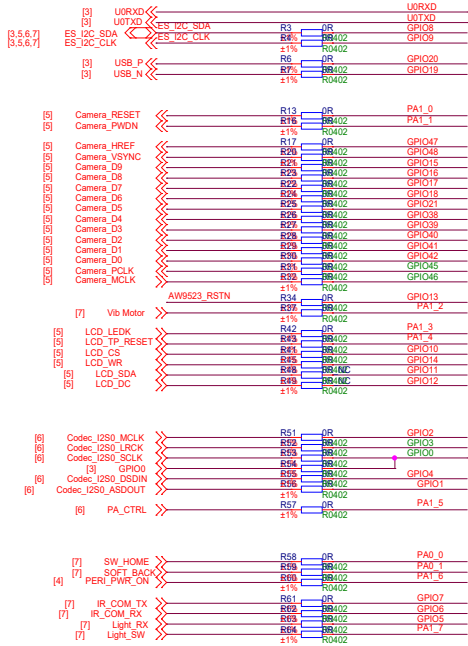


System Block:

Version	History	Date
1.0sp2	NEW，与sp1差异较多。	2021.06.12

ESP32-S3



主副板通信POGOPIN

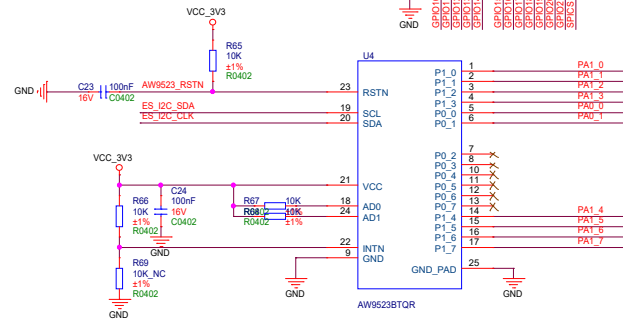
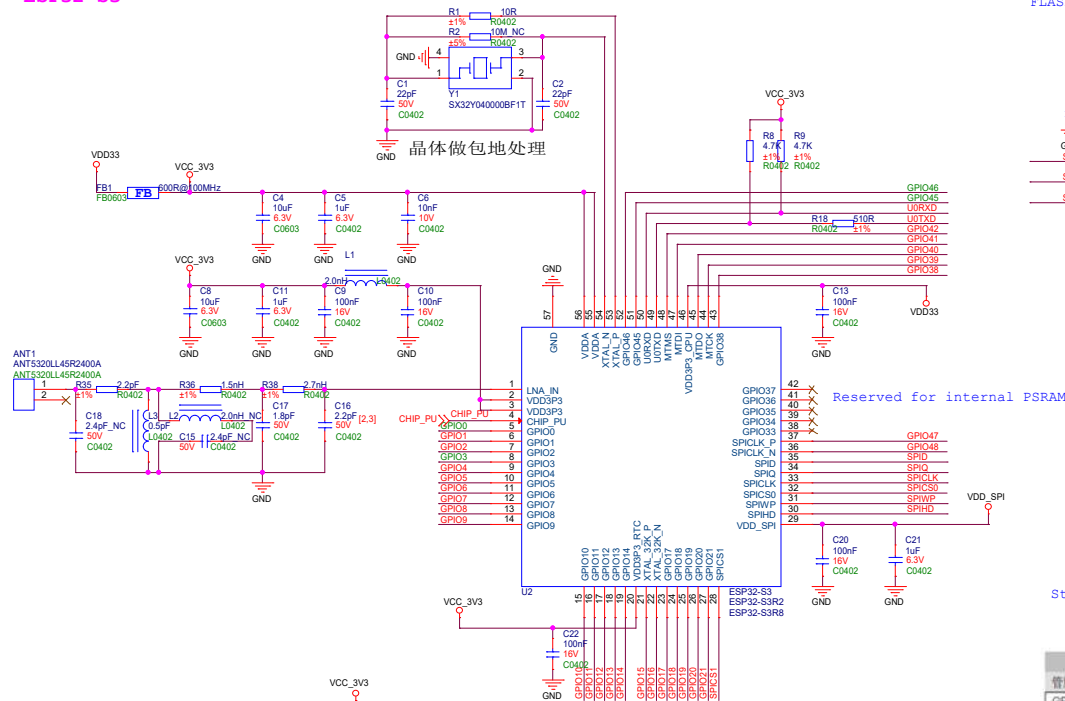
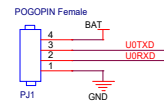
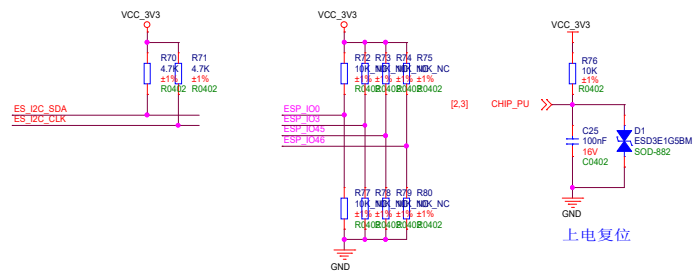
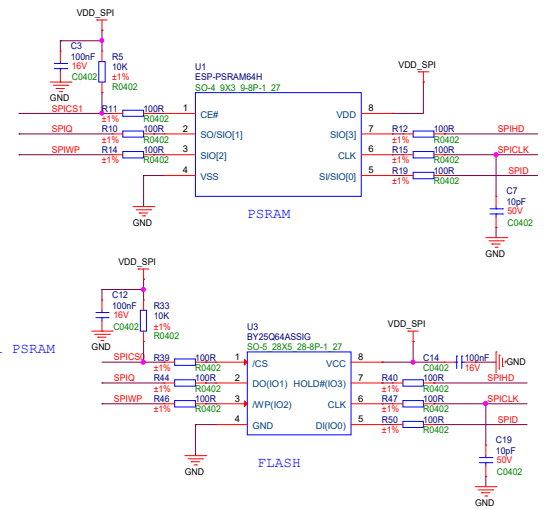


Table 1. Default state of IO ports , AD1/AD0 and P0_x/P1_x

AD1	AD0	P_7	P_6	P_5	P_4	P_3	P_2	P_1	P_0	P_0_7	P_0_6	P_0_5	P_0_4	P_0_3	P_0_2	P_0_1	P_0_0
GND	GND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GND	VBAT	0	0	0	0	1	1	1	1	0	0	0	0	H-Z	H-Z	H-Z	H-Z
VBAT	GND	1	1	1	1	0	0	0	0	H-Z	H-Z	H-Z	H-Z	0	0	0	0
VBAT	VBAT	1	1	1	1	1	1	1	1	H-Z	H-Z	H-Z	H-Z	H-Z	H-Z	H-Z	H-Z



FLASH&PSRAM



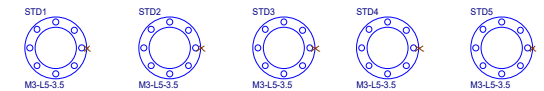
Stapping Pins:

表 4: Strapping 管脚

VDD_SPI 电压 ¹			
管脚	默认	3.3 V	1.8 V
GPIO45	下拉	0	1
系统启动模式 ²			
管脚	默认	SPI 启动模式	下载启动模式
GPIO0	上拉	1	0
GPIO46	下拉	无关项	0
系统启动过程中, 控制 ROM Code 打印 ^{3 *}			
管脚	默认	正常打印	上电不打印
GPIO46	下拉	详见第 4 条说明	详见第 4 条说明
JTAG 信号源选择			
管脚	默认	ERUSE_STRAP_JTAG_SEL=0	ERUSE_STRAP_JTAG_SEL=1
GPIO3	N/A	USB Serial/JTAG	Strapping 值: 0: PAD JTAG ⁵ 1: USB Serial/JTAG ⁵

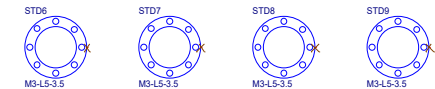
Location Holes:

Support Board



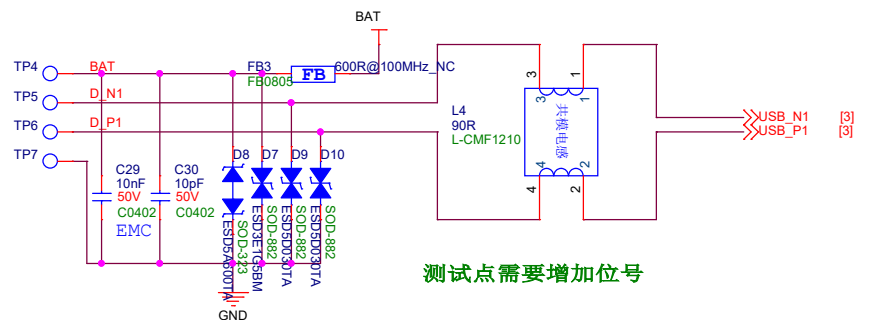
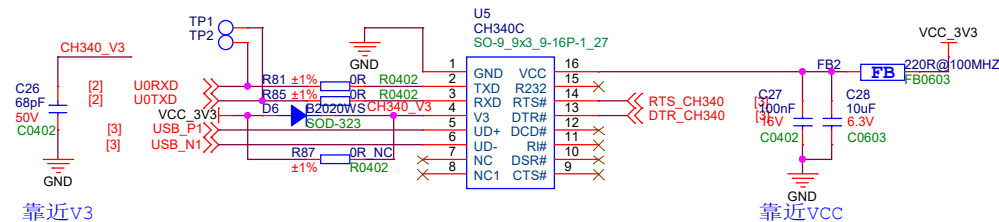
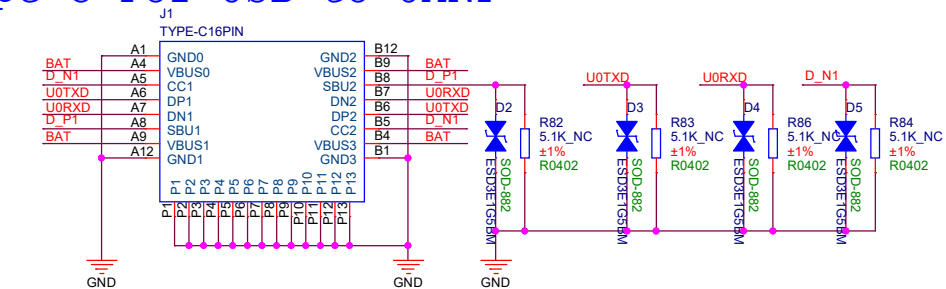
Support LCD

Support Camera.

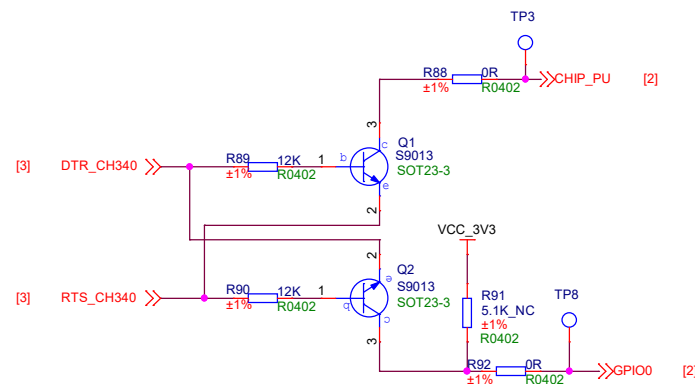


Title			
AICAR			
Size	Document Number		Rev
C	ESP32-S3		V1.0SP2
Date:	Tuesday, June 15, 2021	Sheet	2 of 7

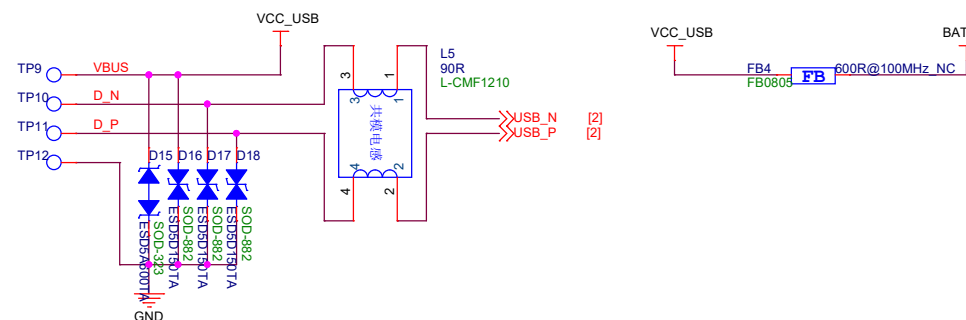
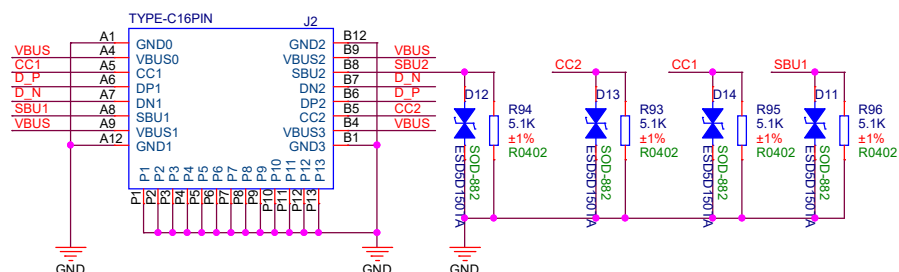
Type-C For USB to UART



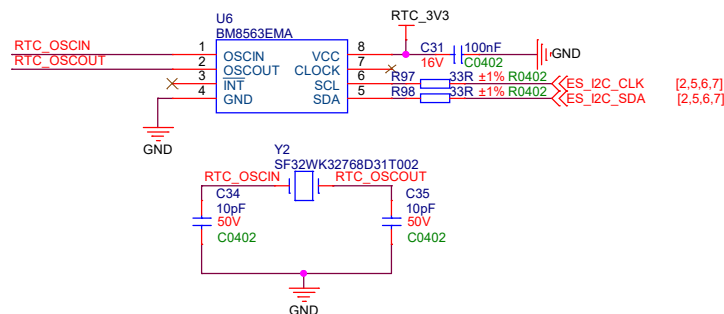
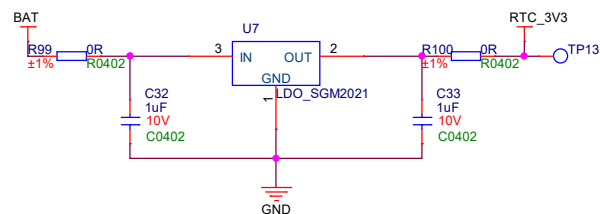
测试点需要增加位号



Type-C For USB

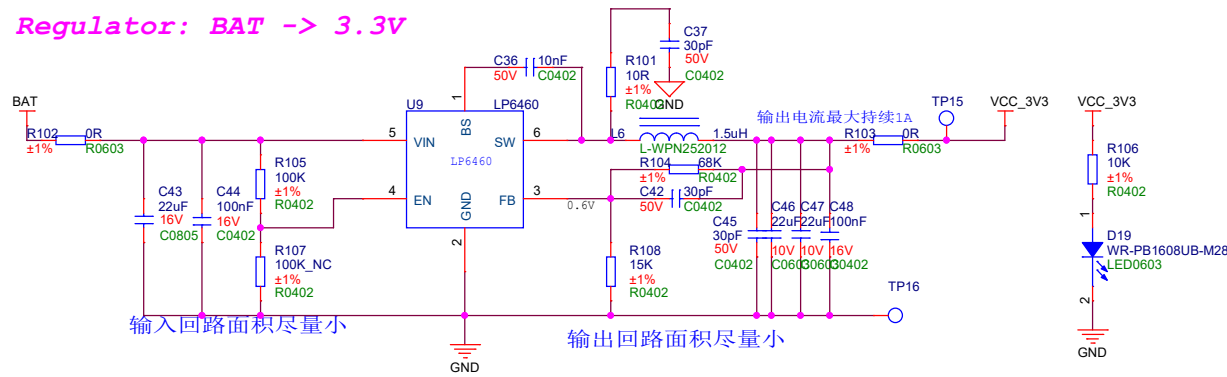


RTC

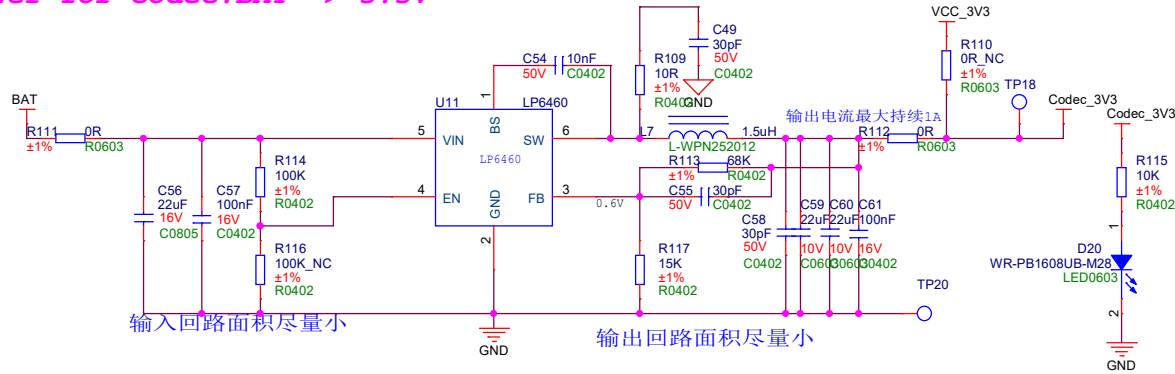


Title AICAR				
Size B	Document Number USB			Rev
Date:	Tuesday, June 15, 2021	Sheet	3 of 7	

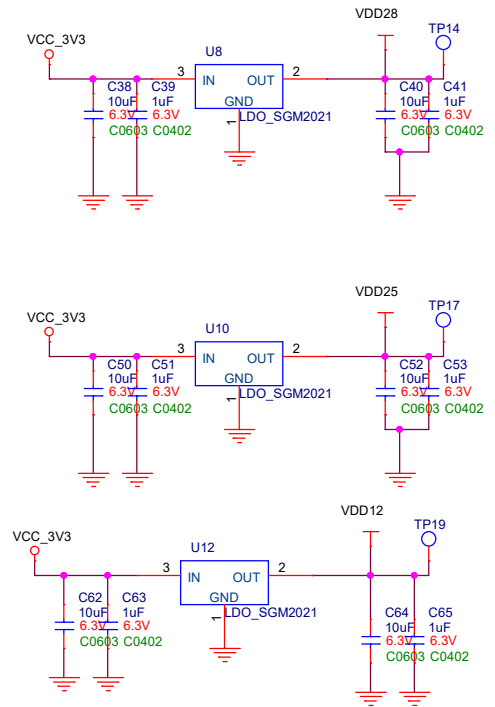
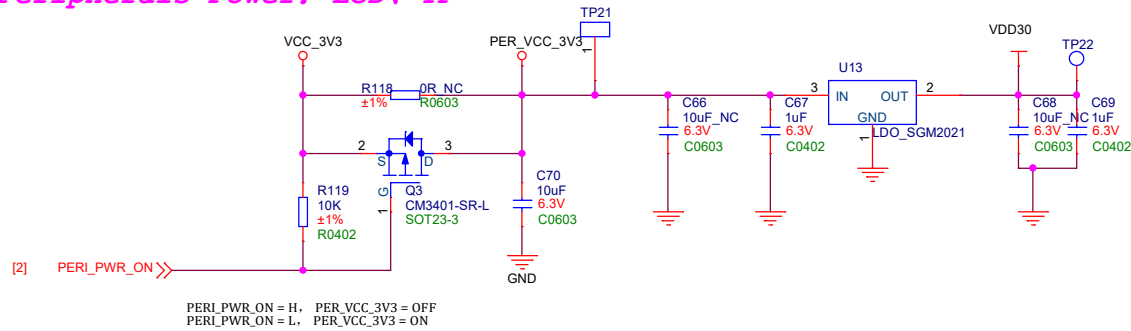
Power Regulator: BAT -> 3.3V



Power for Codec: BAT -> 3.3V

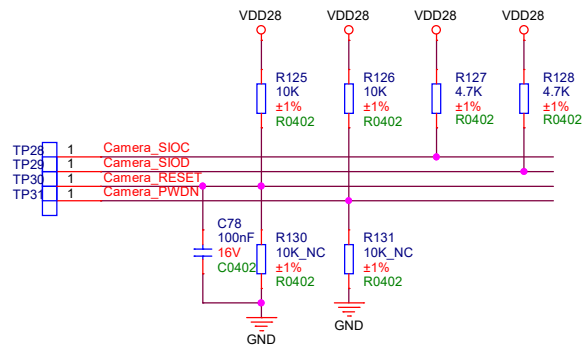
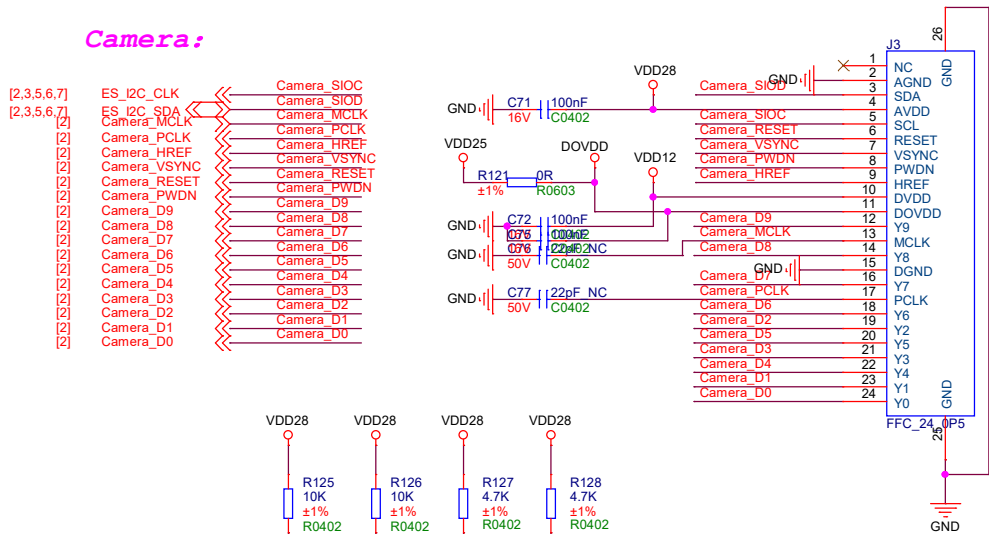


Peripherals Power: LCD, TP

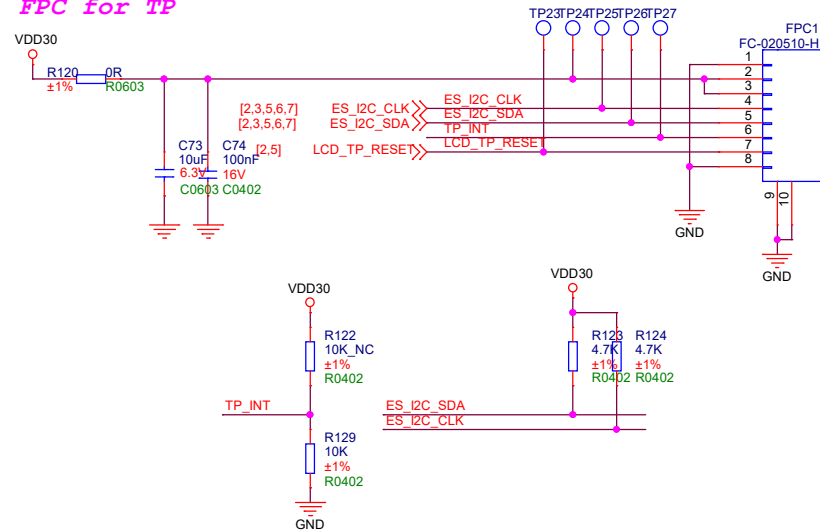


Title		
AICAR		
Size	Document Number	Rev
B	POWER	V1.0SP2
Date:	Tuesday, June 15, 2021	Sheet 4 of 7

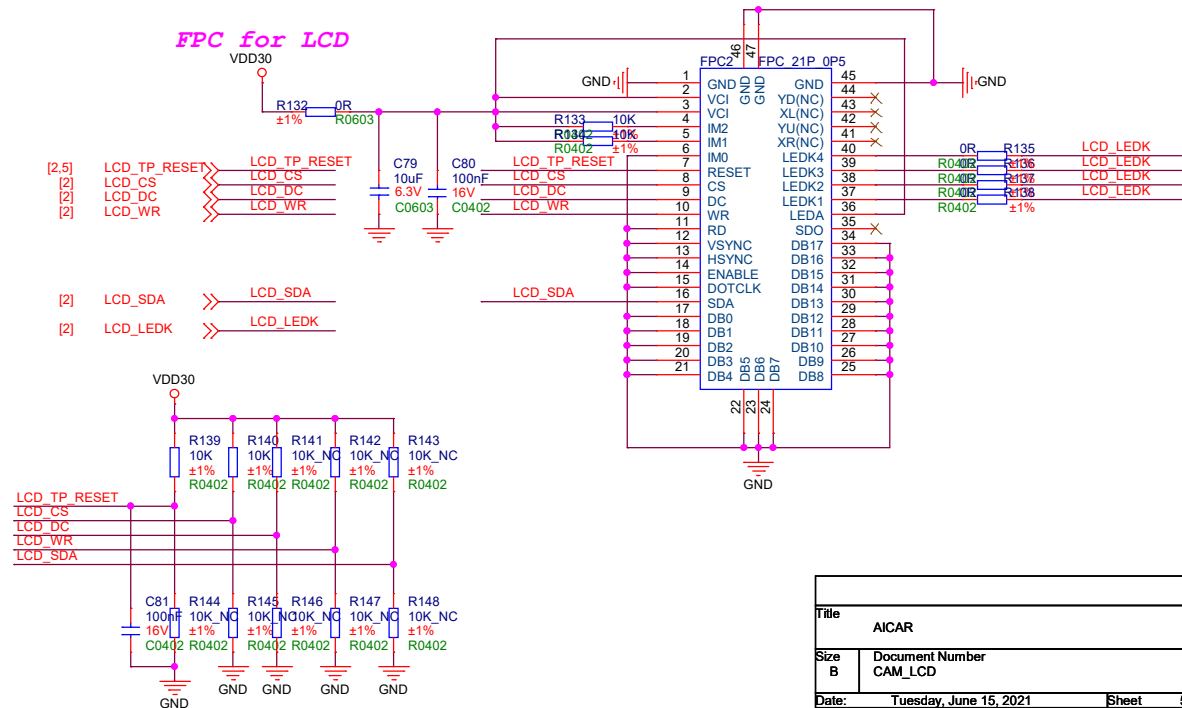
Camera:



FPC for TP

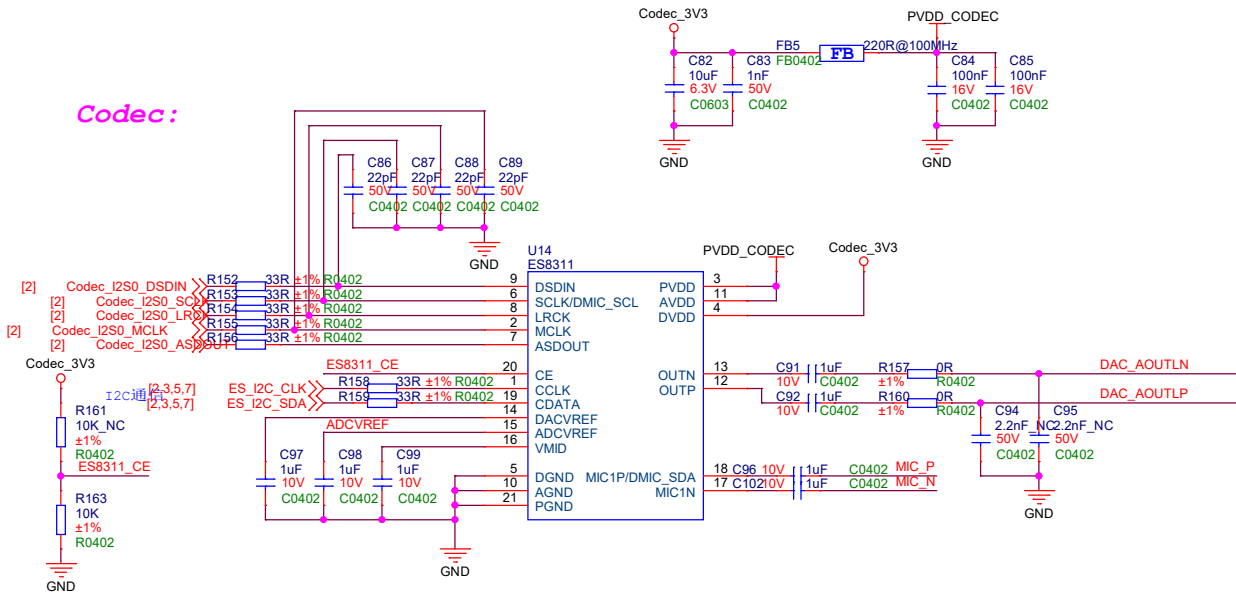


FPC for LCD

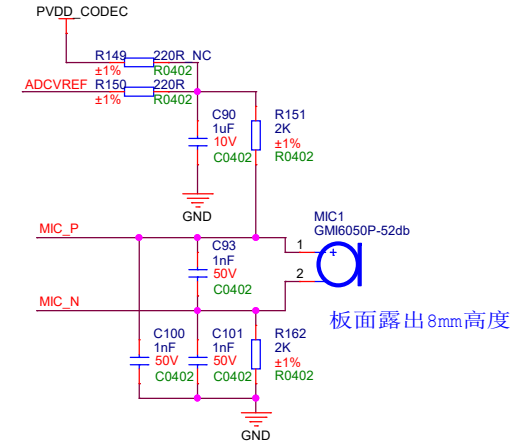


Title AICAR			
Size B	Document Number CAM_LCD		Rev V1.0SP2
Date:	Tuesday, June 15, 2021	Sheet	5 of 7

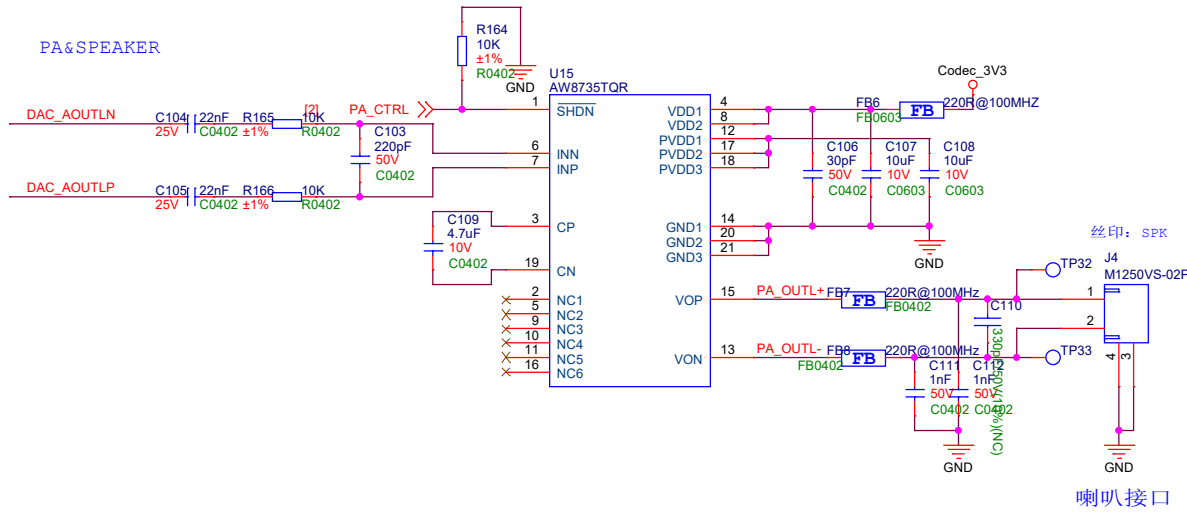
Codec :



Reserved AMIC*1

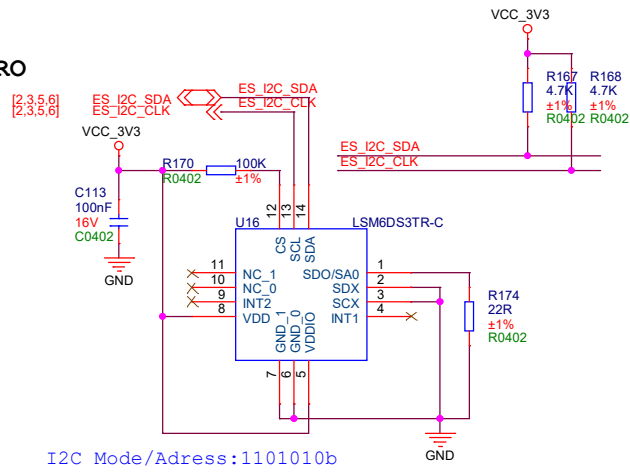


PA&SPEAKER

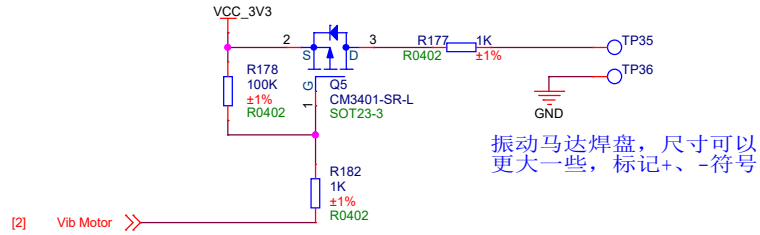


Title		
AICAR		
Size	Document Number	Rev
B	AUDIO	V1.0SP2
Date:	Tuesday, June 15, 2021	Sheet 6 of 7

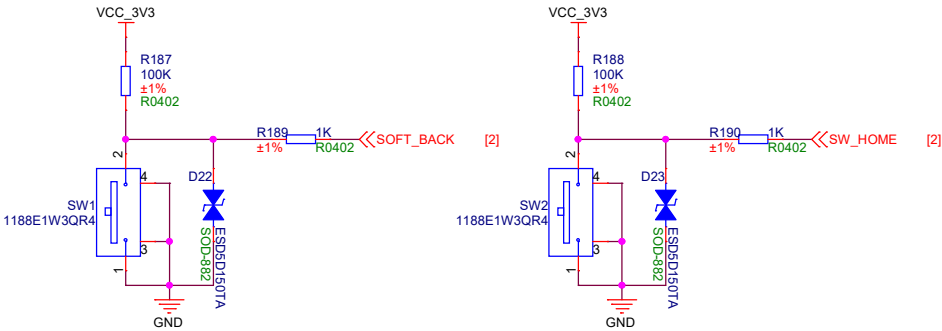
6D ACCE&GYRO



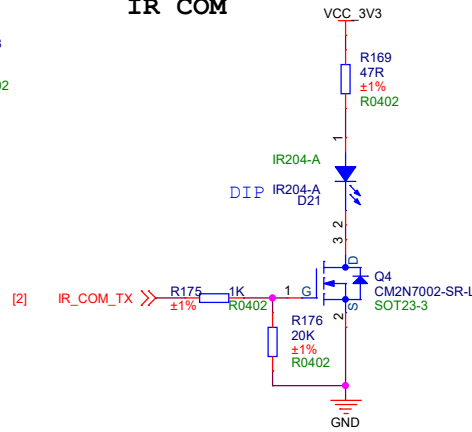
Vibrating Motor



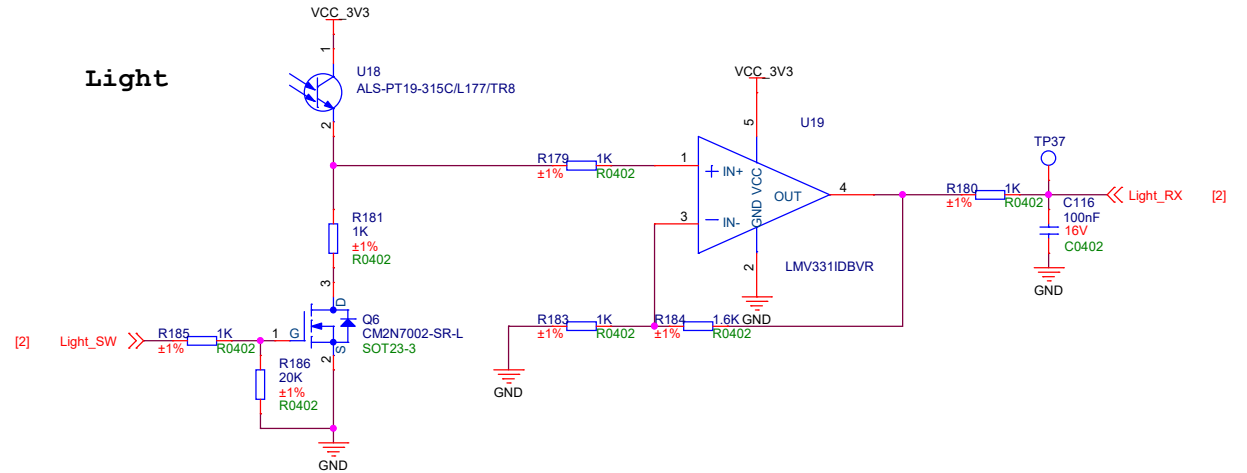
KEY



IR COM



Light



Title		
AICAR		
Size	Document Number	Rev
B	SENSOR	V1.0SP2
Date:	Tuesday, June 15, 2021	Sheet 7 of 7