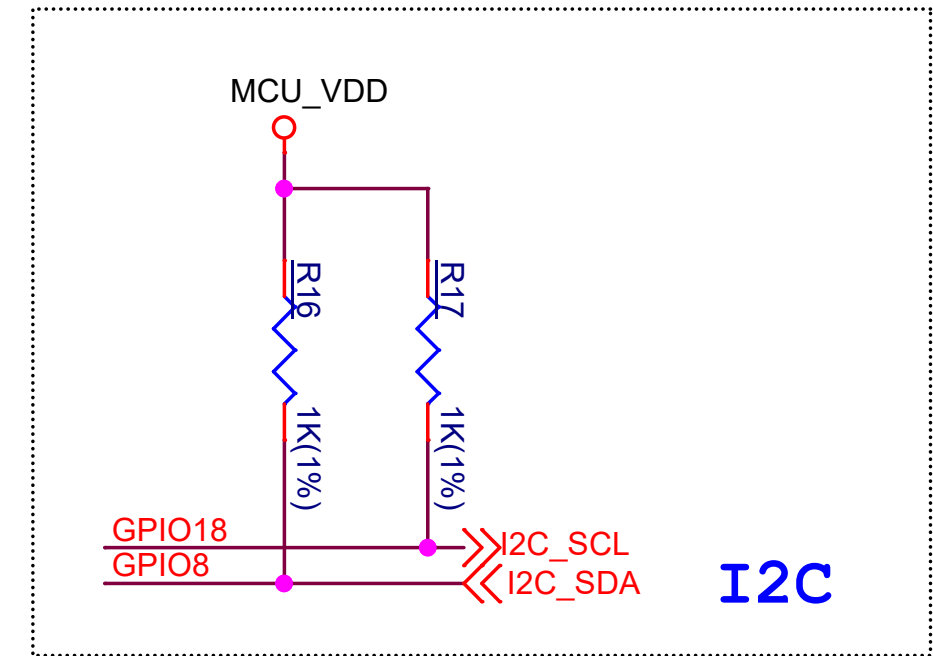
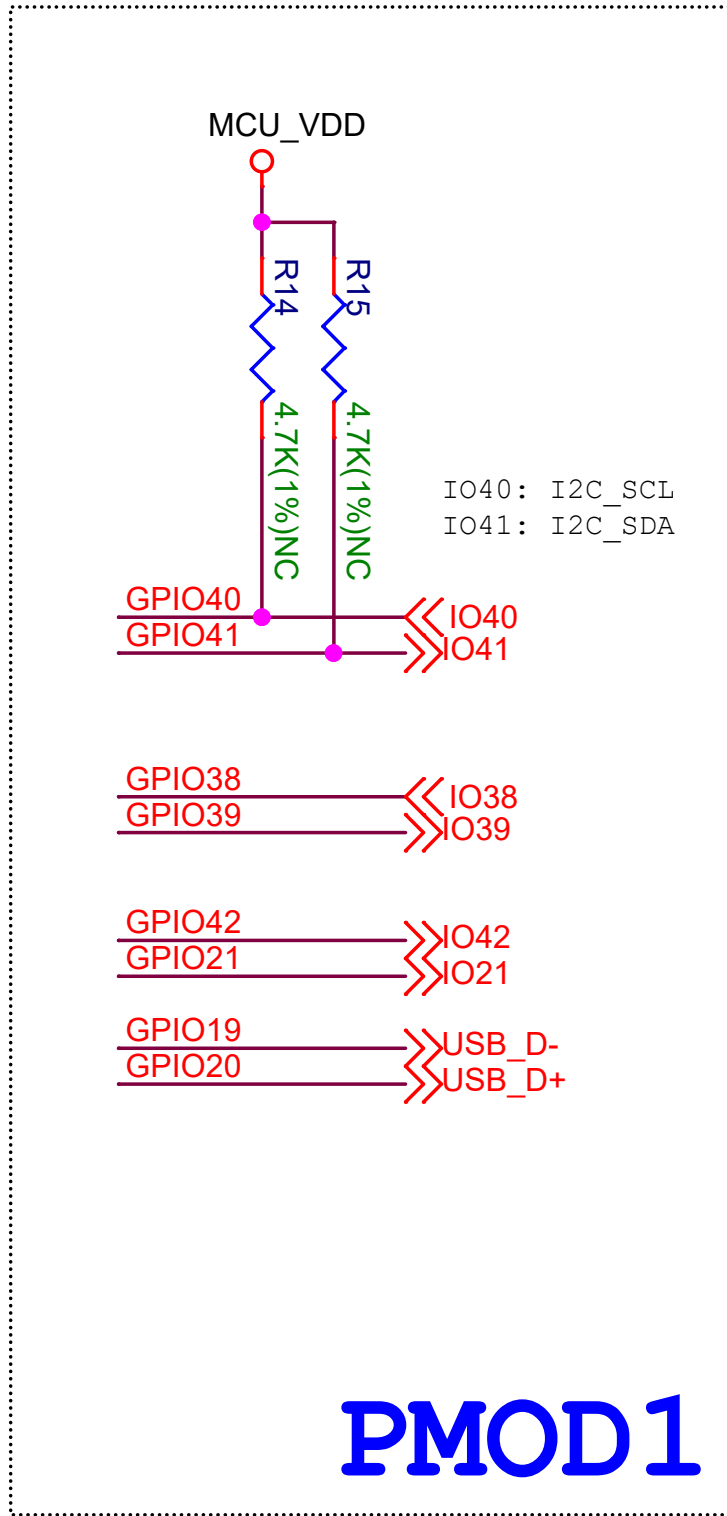


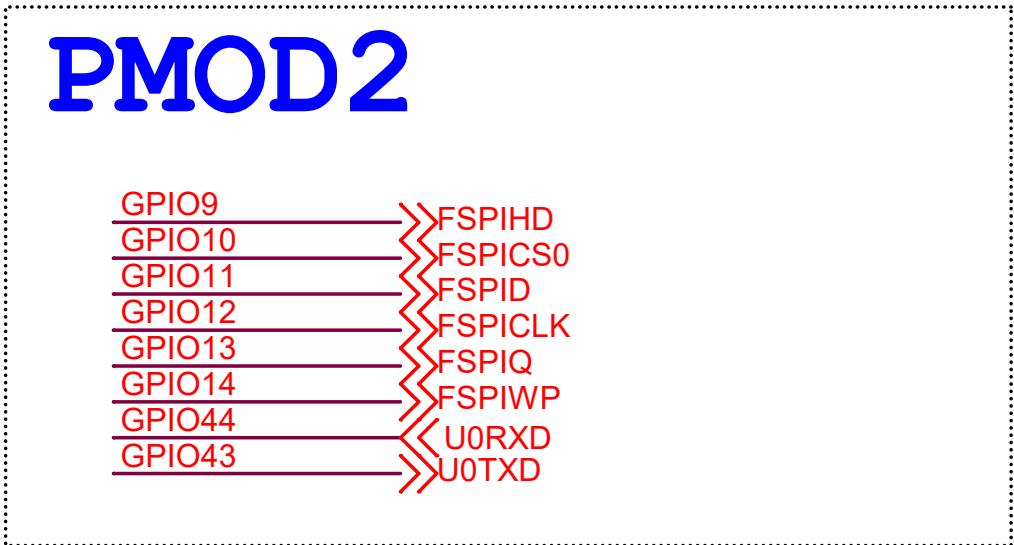
MCU



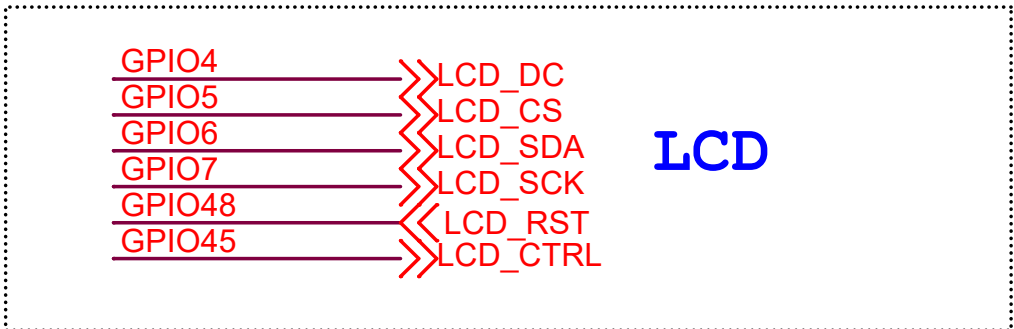
I2C



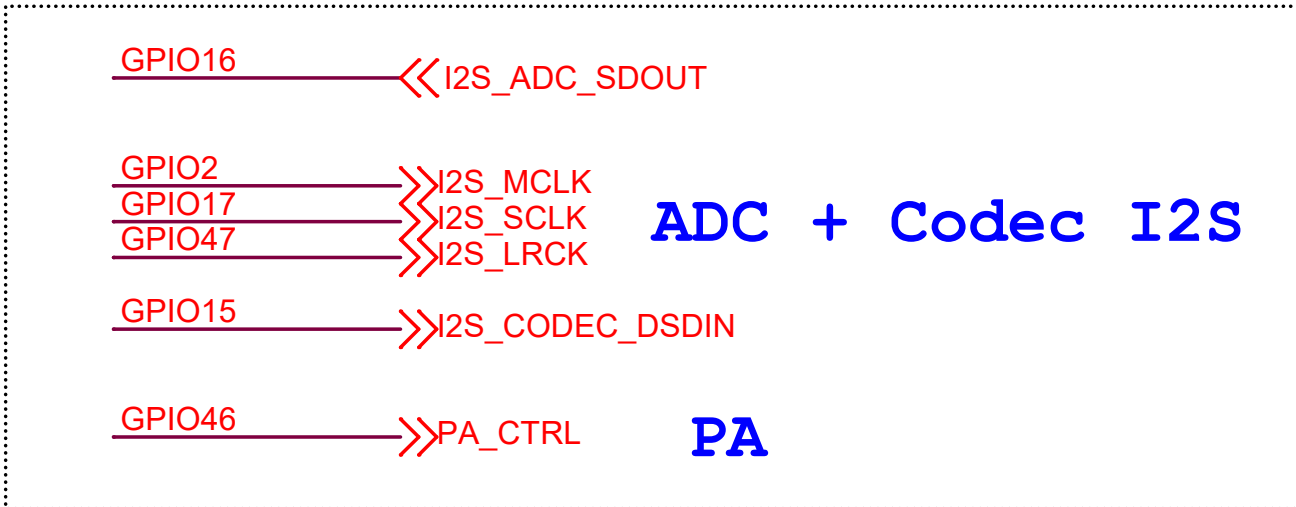
PMOD1



PMOD2

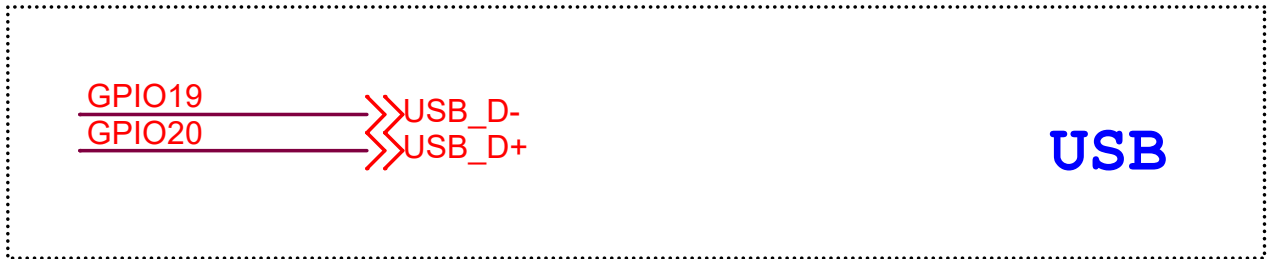


LCD

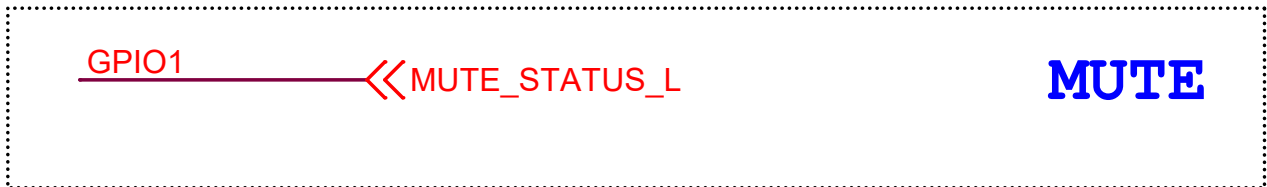


ADC + Codec I2S

PA



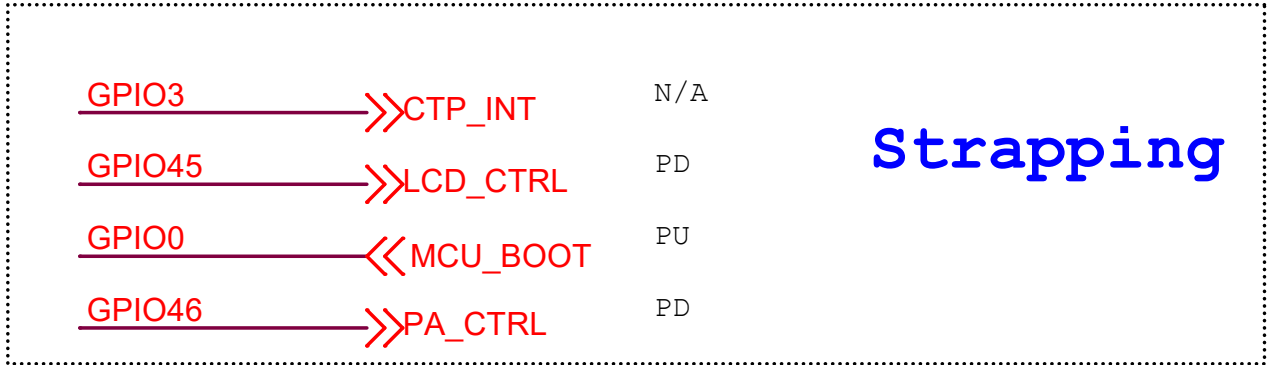
USB



MUTE

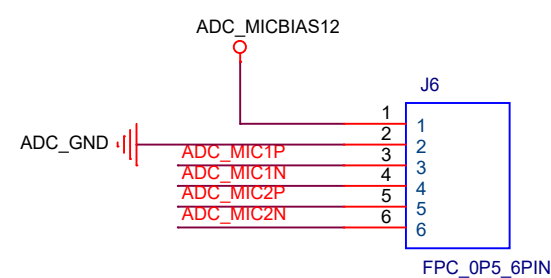
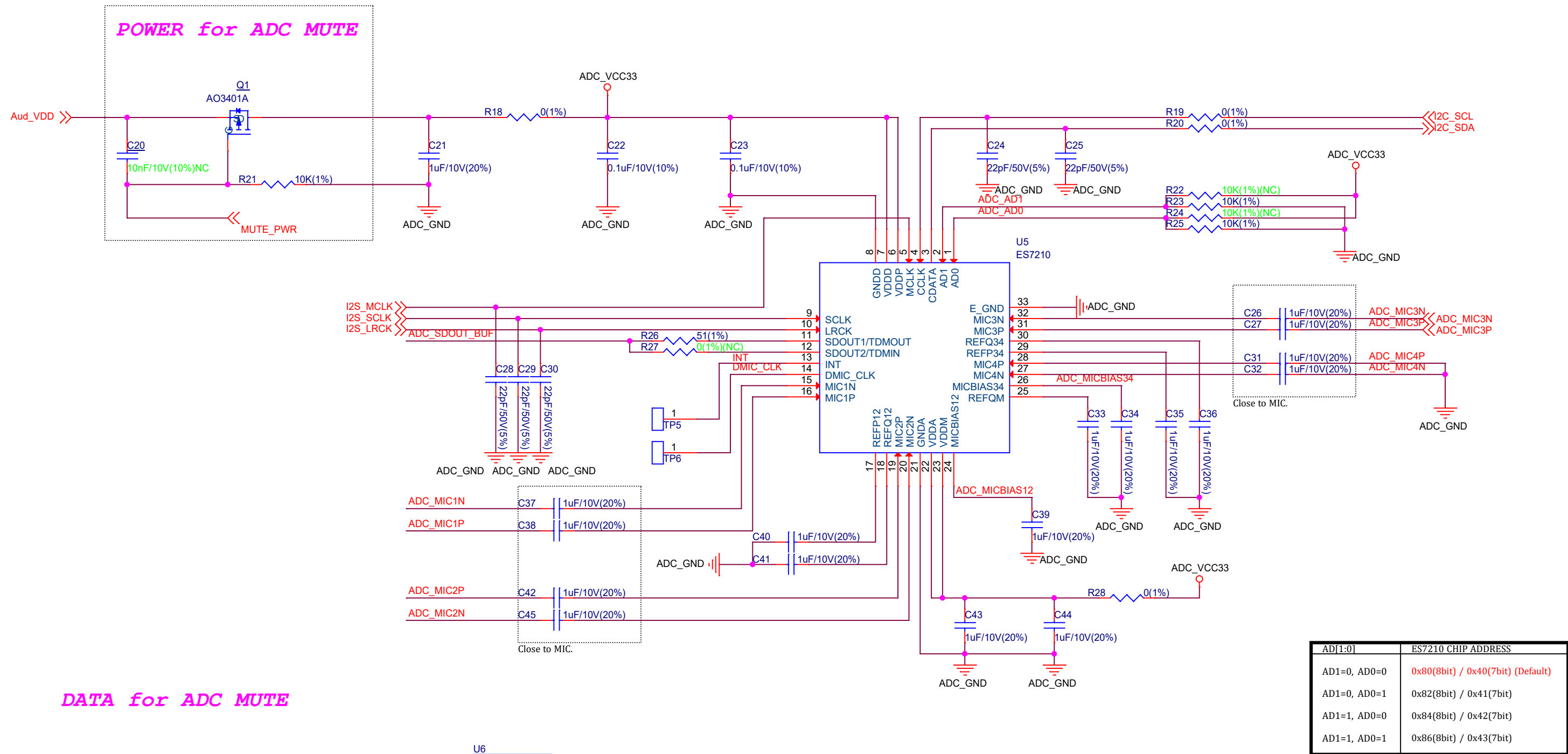


BUTTON

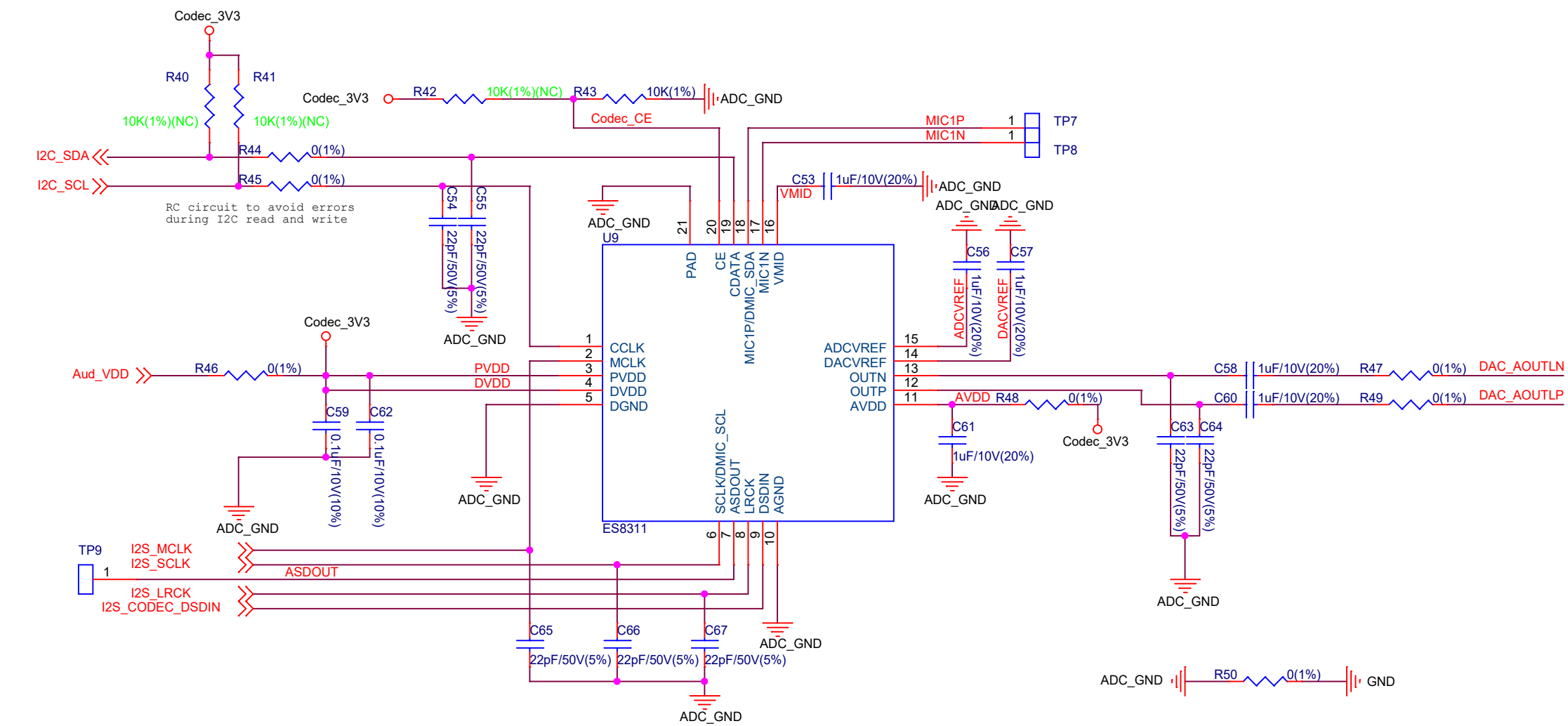


Strapping

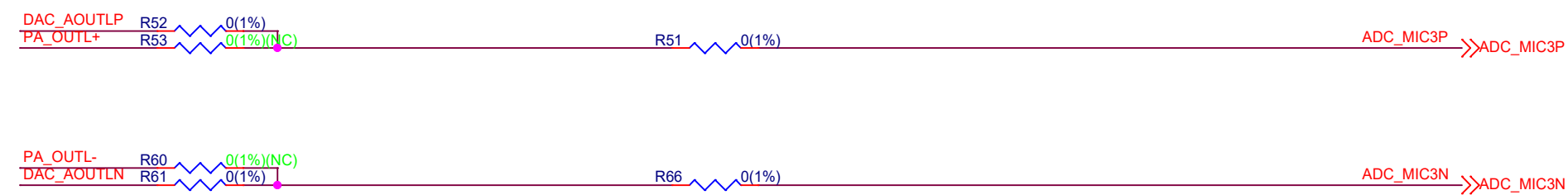
ESPRESSIF			
乐鑫信息科技（上海）股份有限公司			
Title ESP32-S3-BOX			
Size A4	Page Name Module	Rev 2.5	Confidential and Proprietary
Date:	Monday, October 11, 2021		Sheet 3 of 7



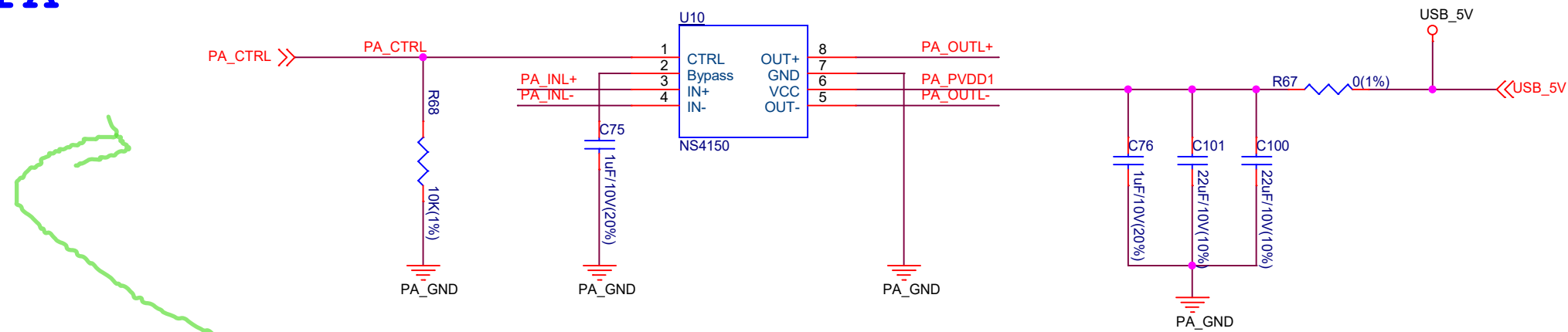
## Codec



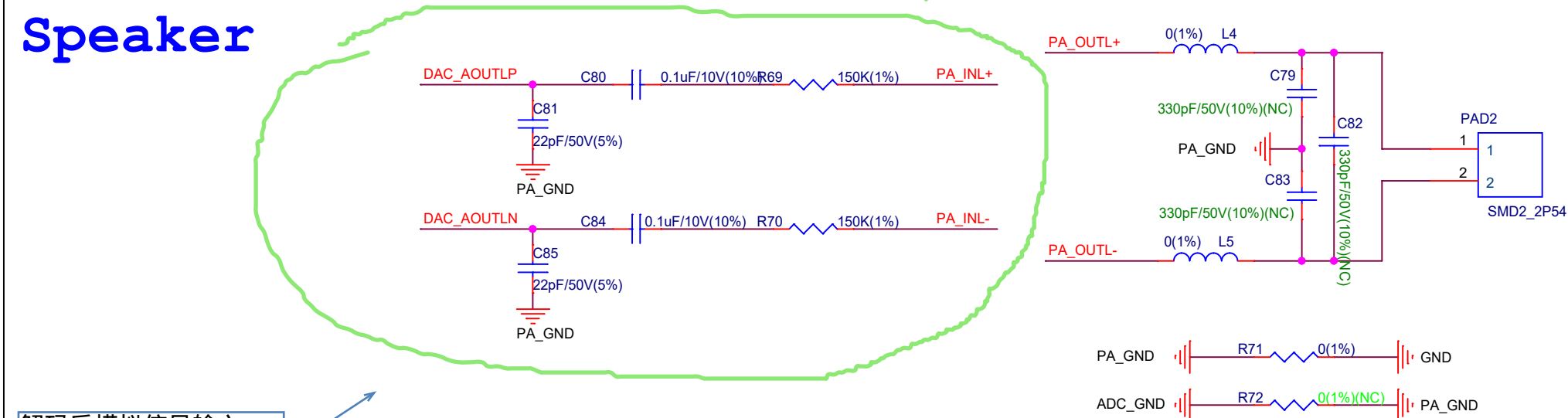
## AEC



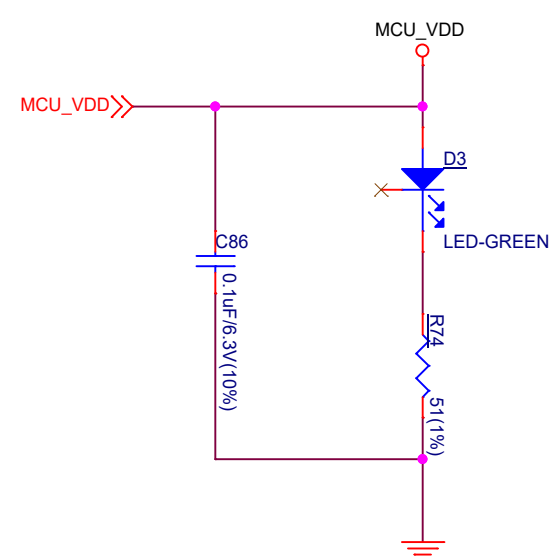
## PA



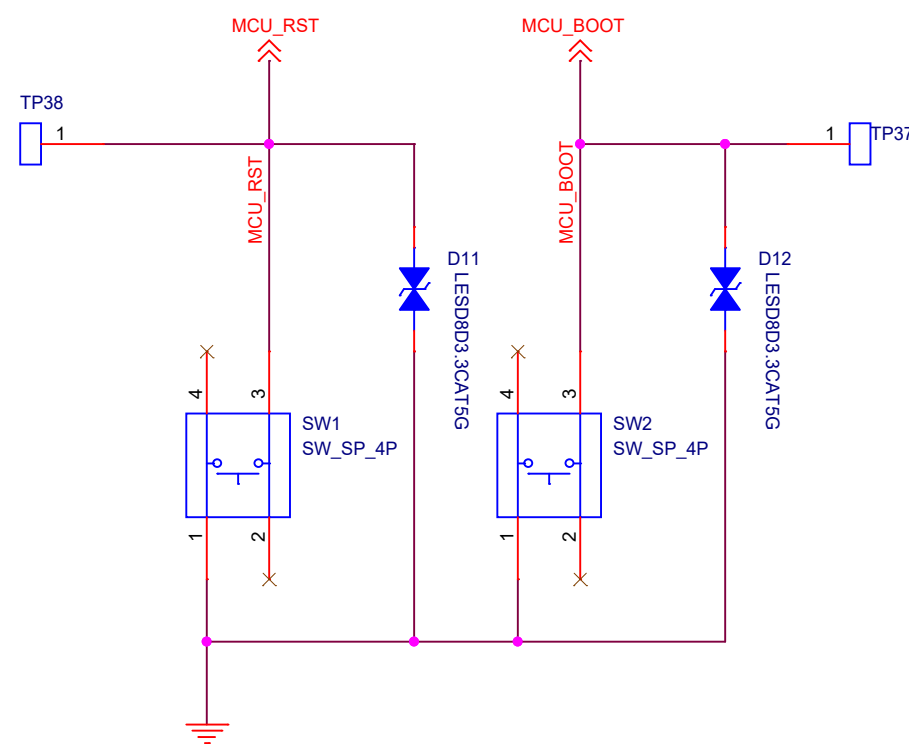
## Speaker



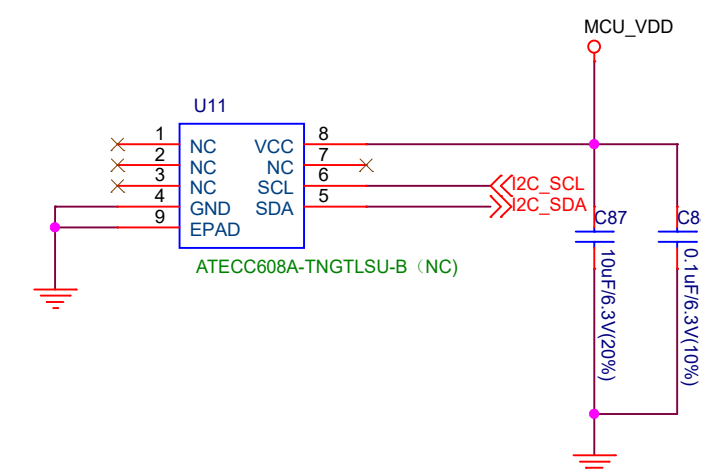
解码后模拟信号输入



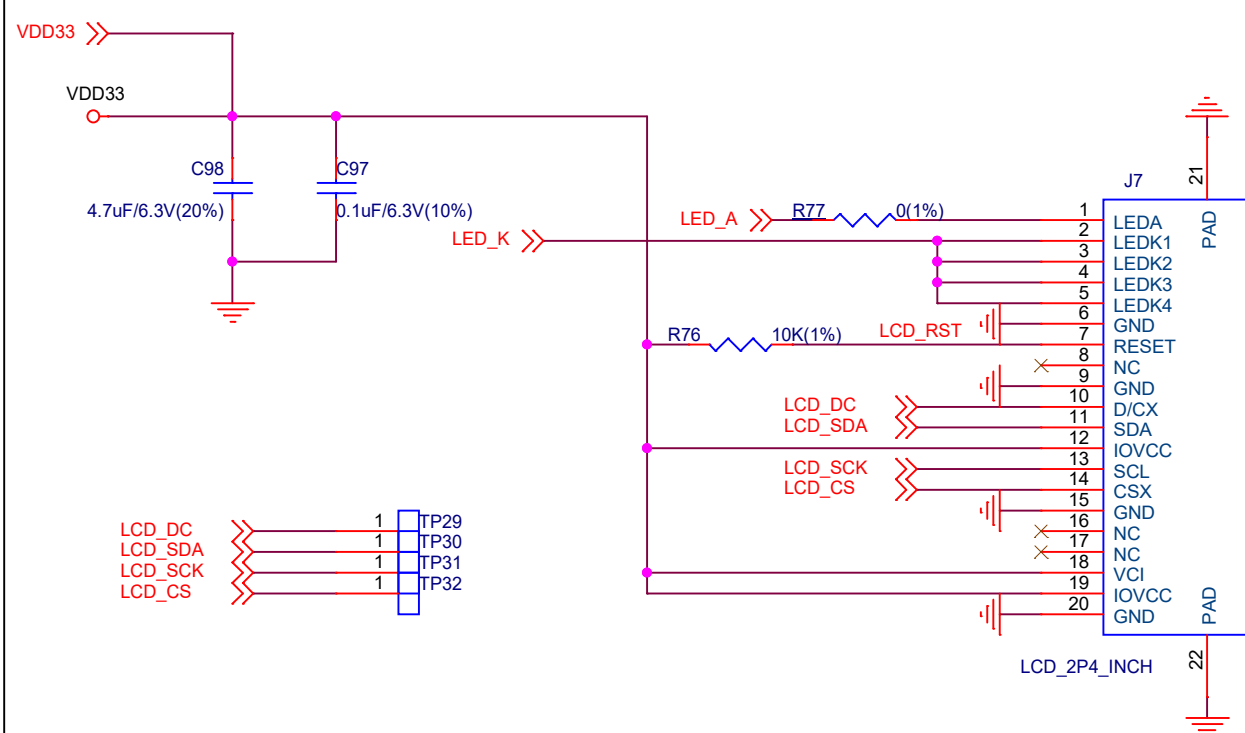
## LED



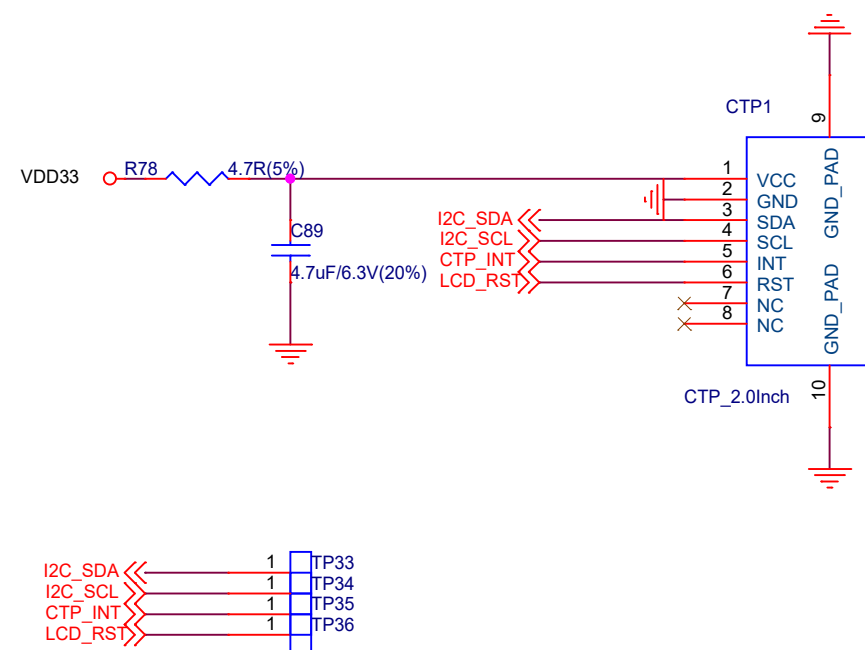
## BUTTON



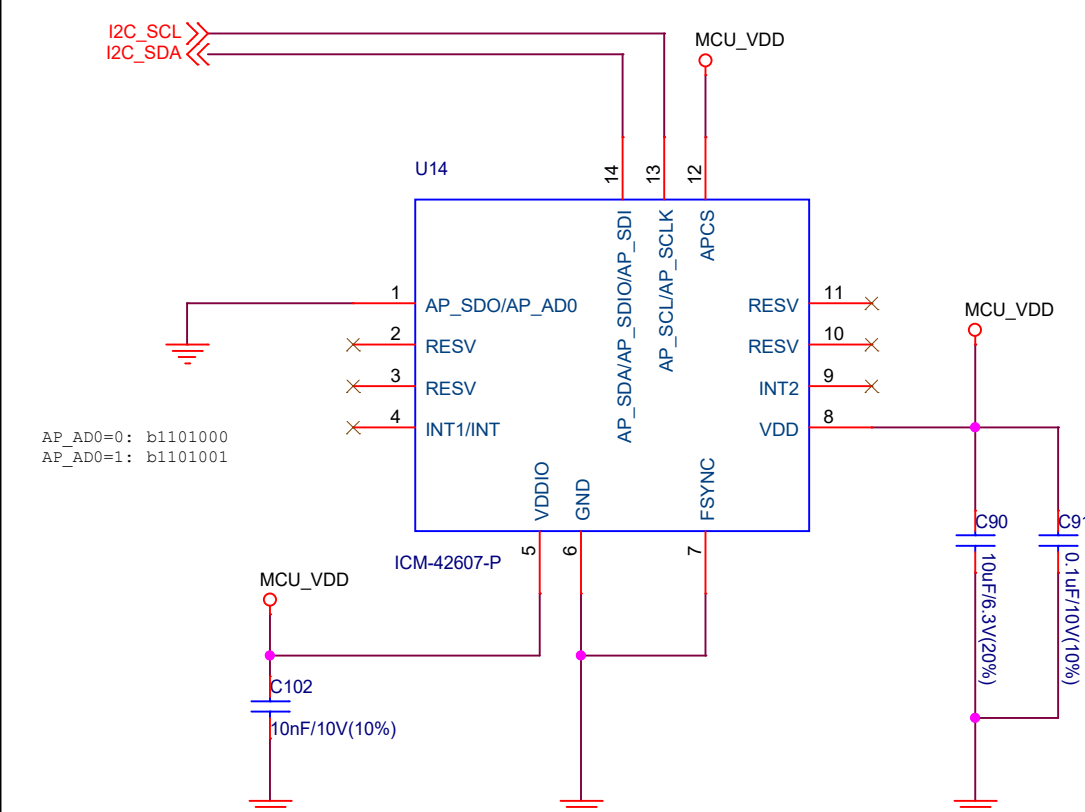
## Hardware encryption chip



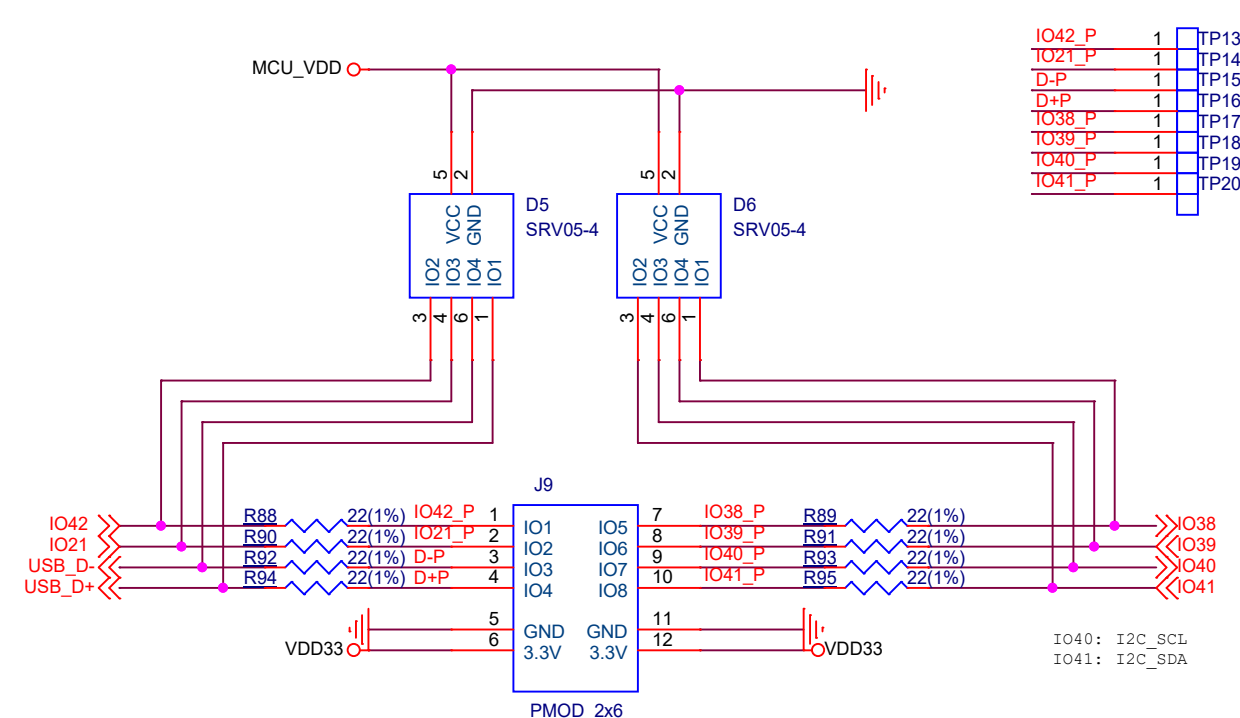
## LCD



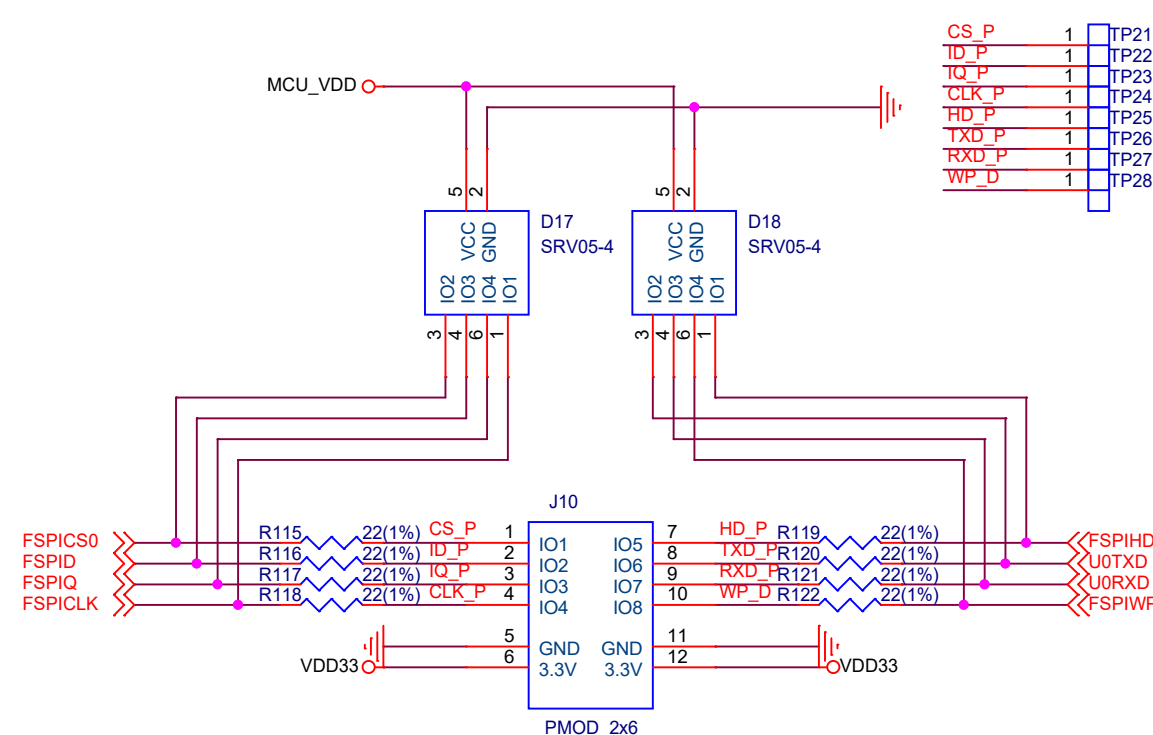
C-TP



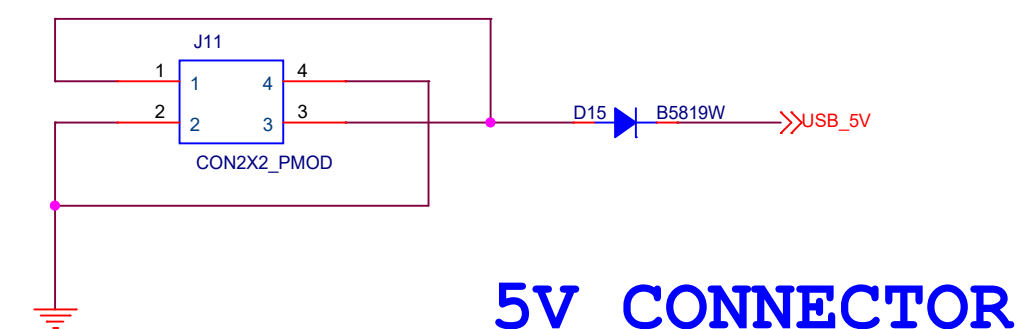
IMU



PMOD1 2X6



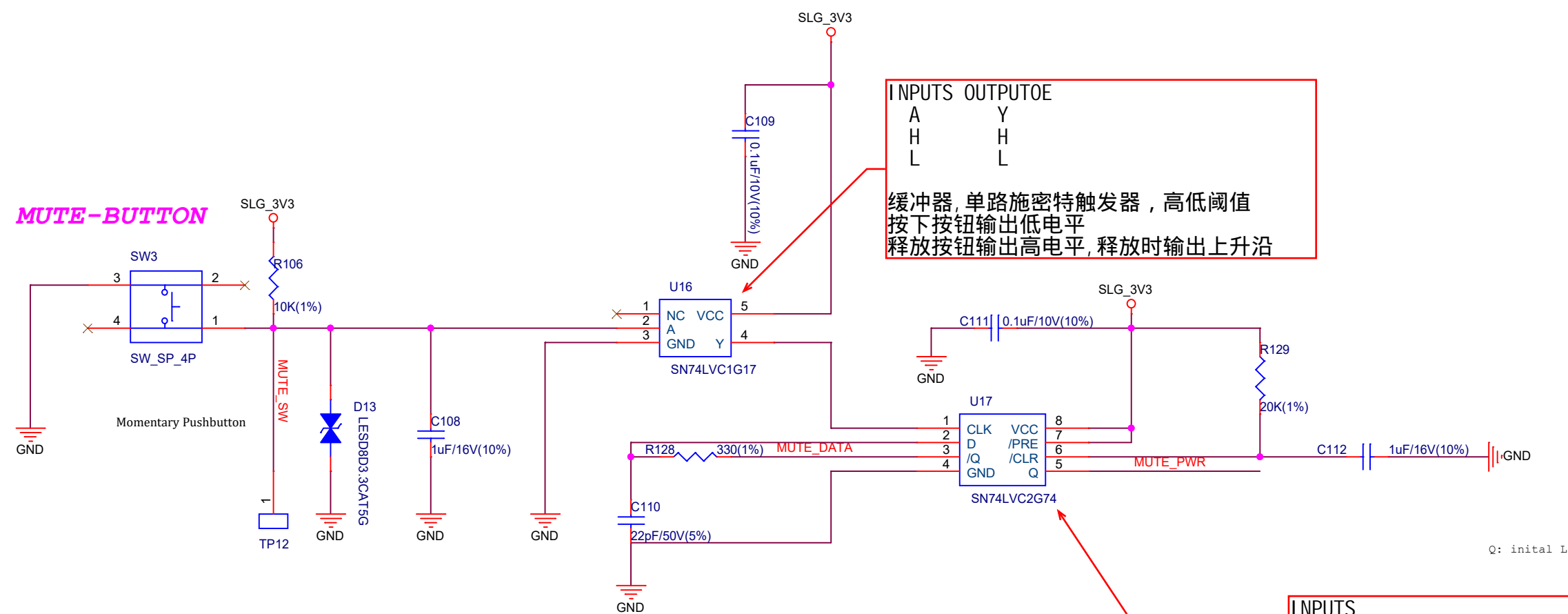
PMOD2 2X6



## 5V CONNECTOR



**MUTE**



INPUTS	OUTPUT
A	Y
H	H
L	L

缓冲器, 单路施密特触发器, 高低阈值  
 按下按钮输出低电平  
 释放按钮输出高电平, 释放时输出上升沿

INPUTS				OUTPUTS	
PRE	CLR	CLK	D	Q	!Q
L	H	X	X	H	L
H	L	X	X	L	H
L	L	X	X	H(1)	H(1)
H	H		H	H	L
H	H		L	L	H
H	H	L	X	Q <sub>0</sub>	Q <sub>0</sub>

(1) This configuration is non-stable; that is, it does not persist when PRE or CLR returns to its inactive (high) level.

### 总结:

D 连接到 !Q, 当按键后, Q 将切换输出高低自锁电平

延伸:

更换本电路为触摸按键电路+非门电路,成本更低,功能相同.

3248-EBD7单键开关芯片,输出1路高电平,1路低电平

## 9C51-528E芯片

