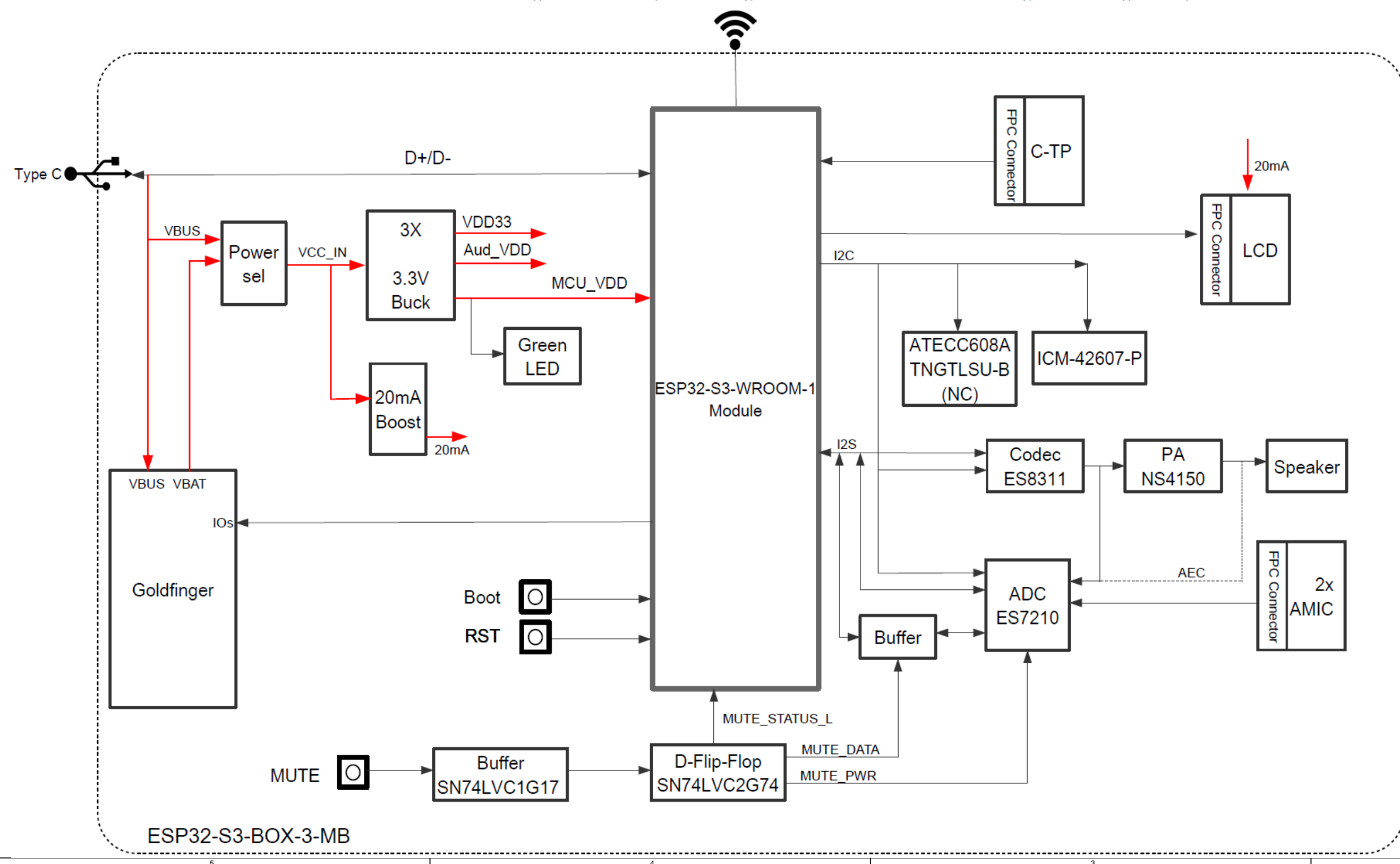
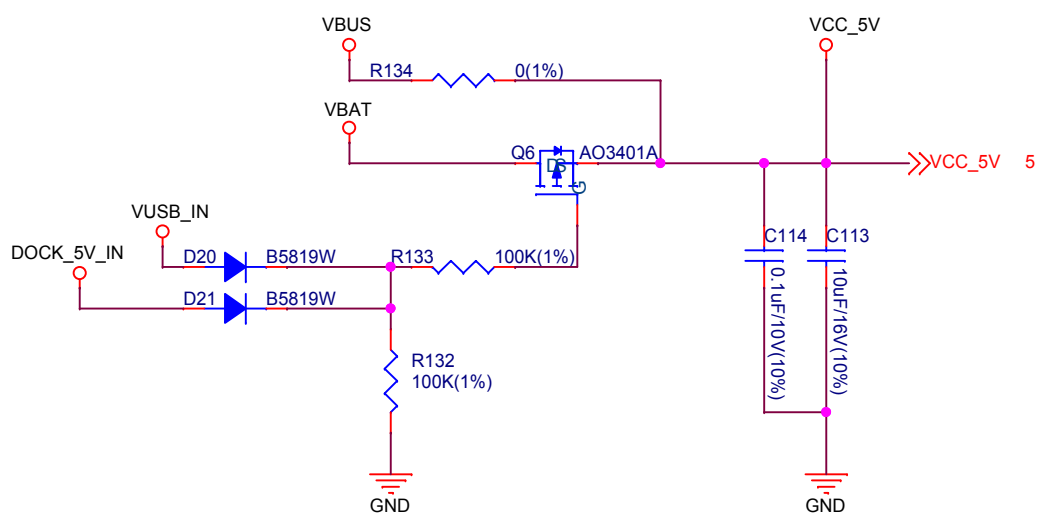
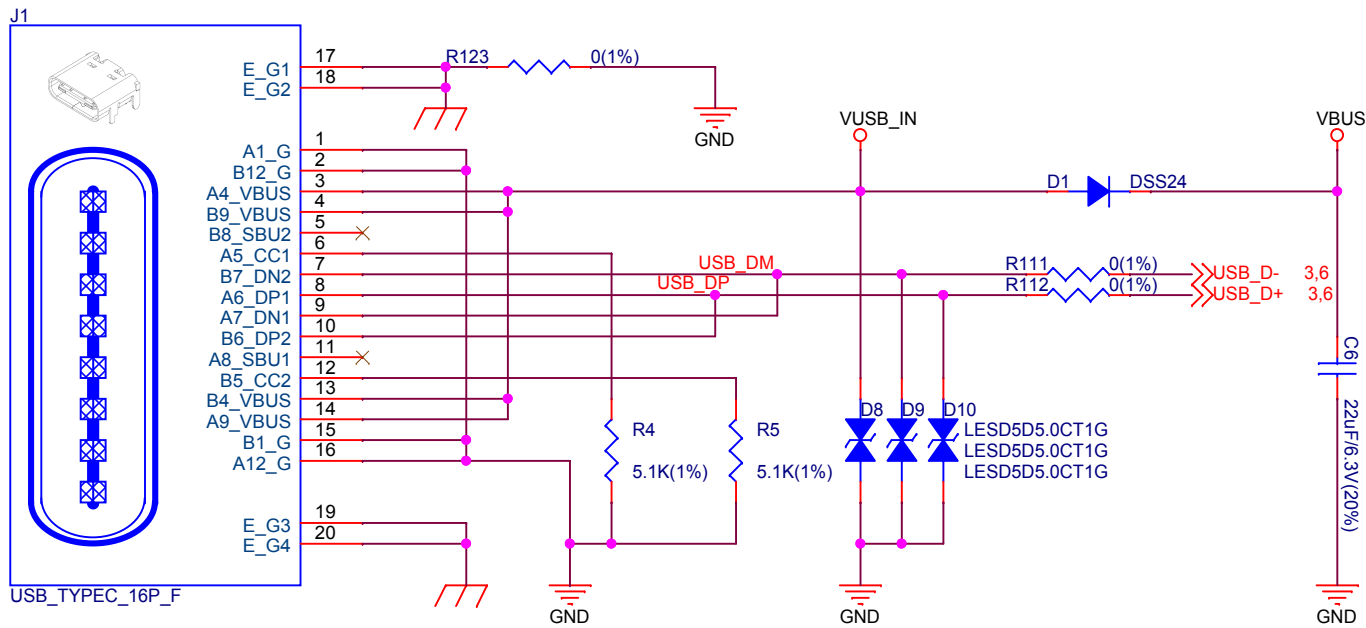


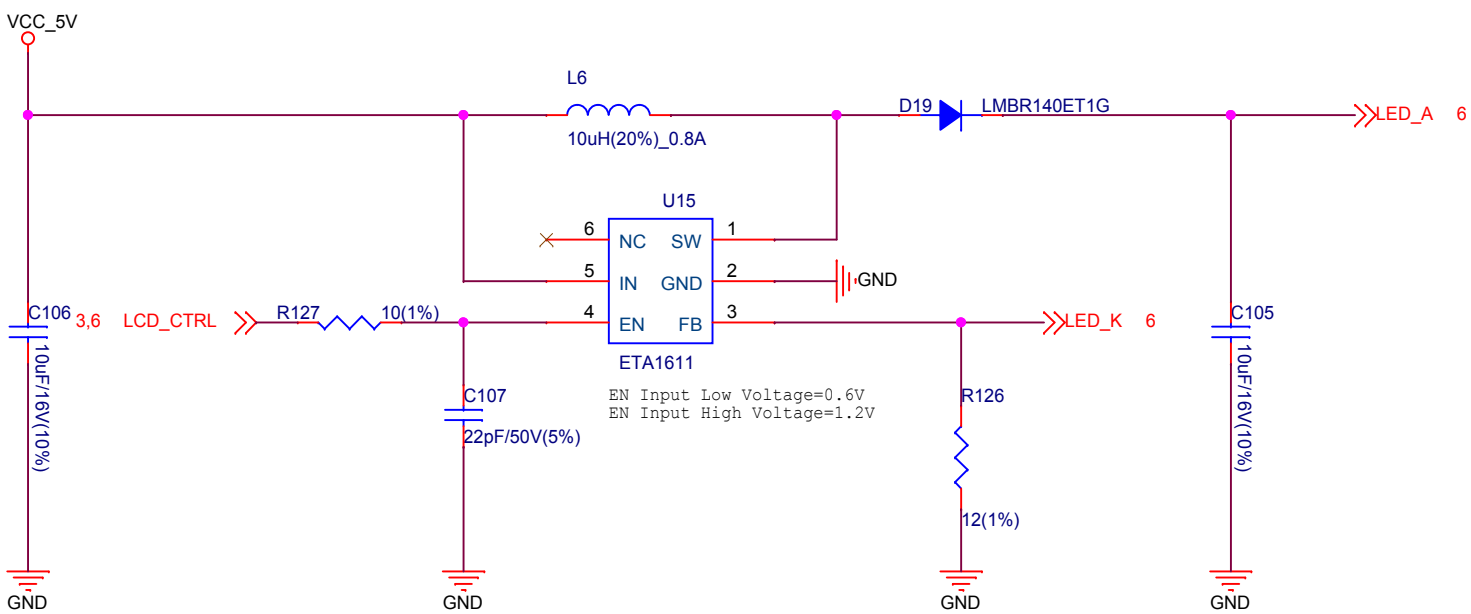
Note:
 When USB Type A is used to supply power for peripheral and to transport data, USB Type C1 can not be used at the same time, USB Type C3 powers the board.
 When USB Type C1 is used to transport data, USB Type A can not be used at the same time, both USB Type C1 and USB Type C3 can power the board.



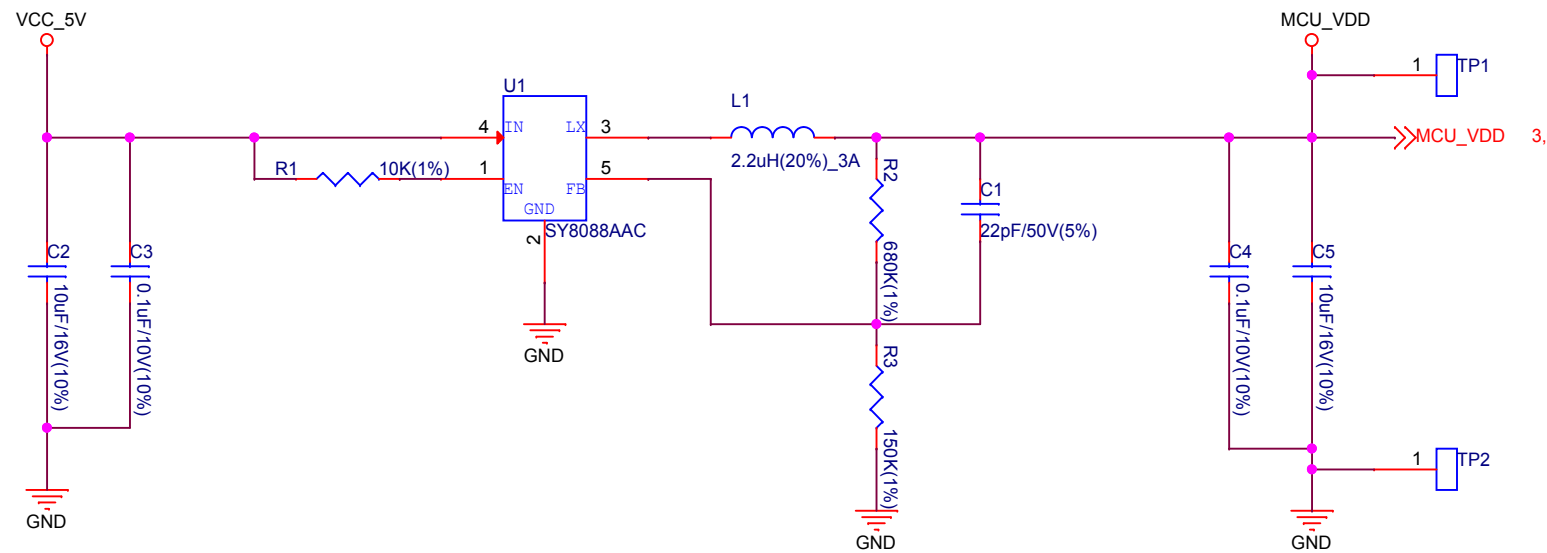
USB



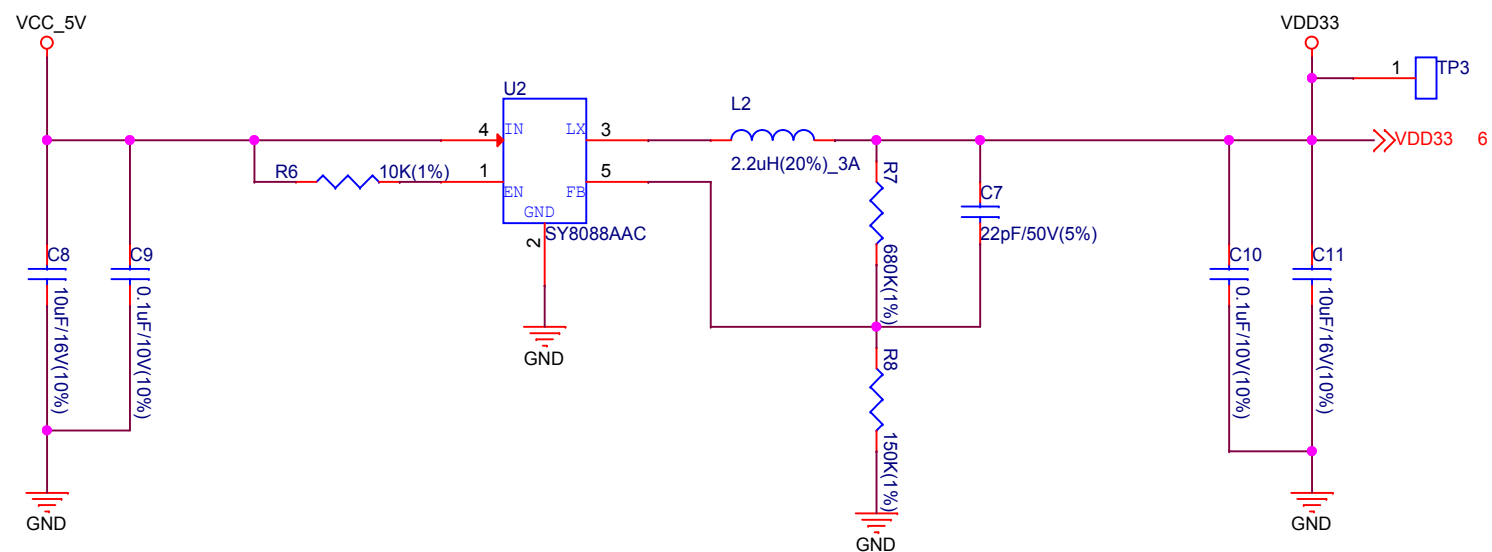
LCD_BL



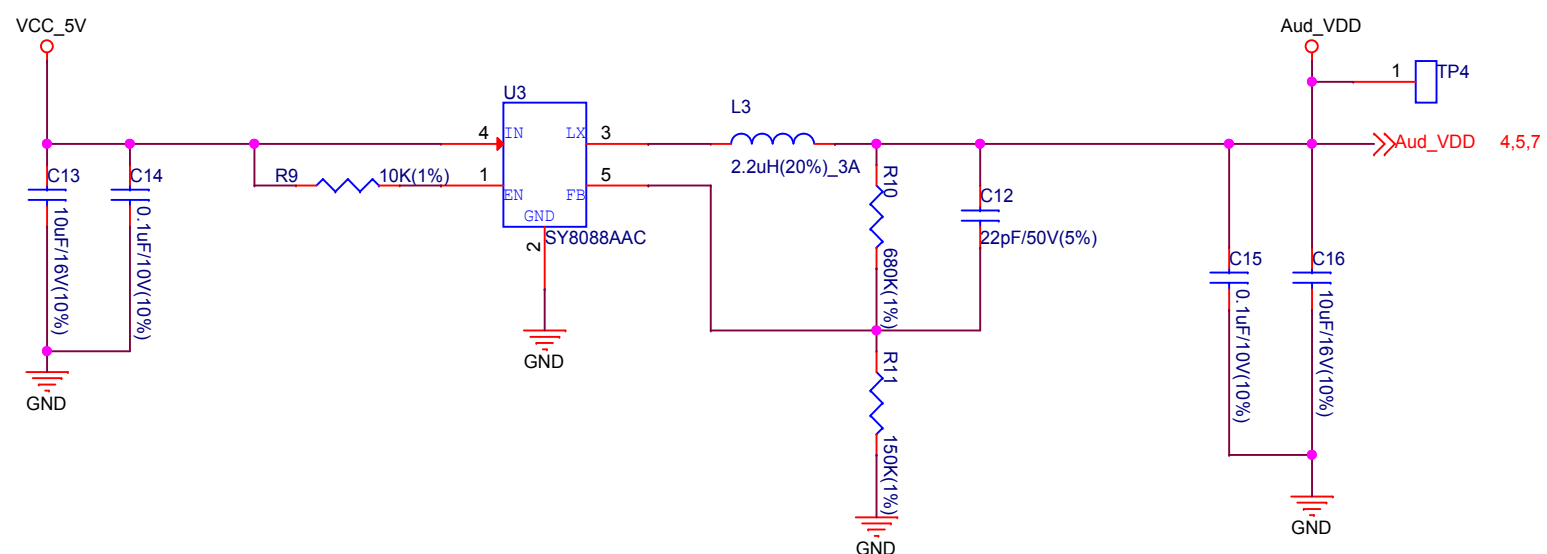
MCU_VDD



Interface VDD



Audio VDD

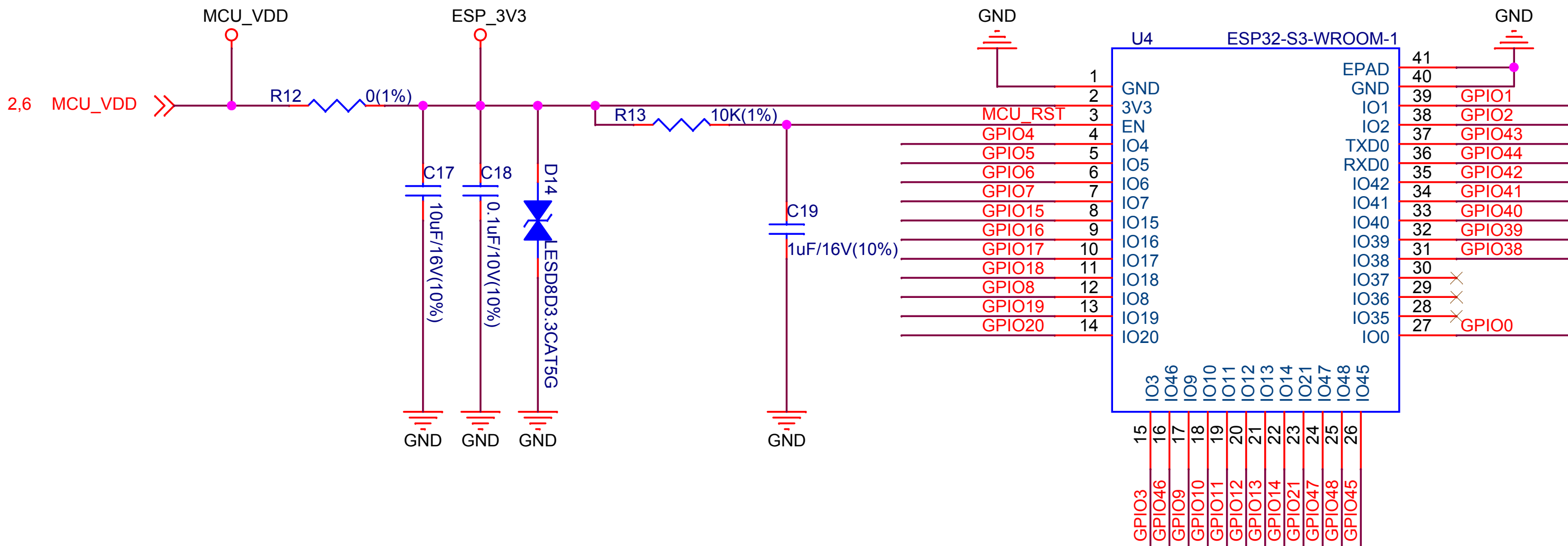


ESPRESSIF

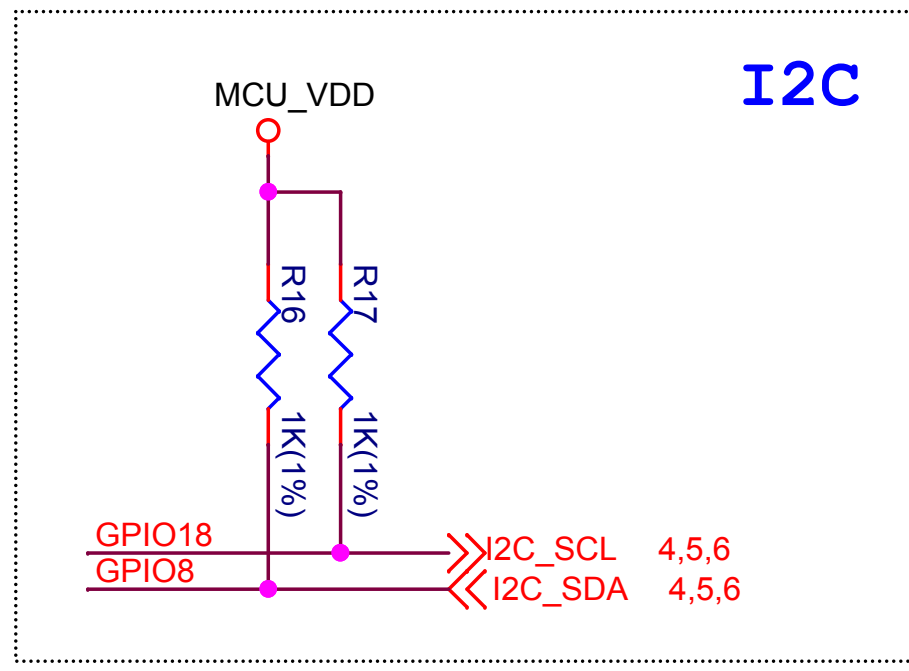
乐鑫信息科技（上海）股份有限公司

Title
ESP32-S3-BOX-3-MB

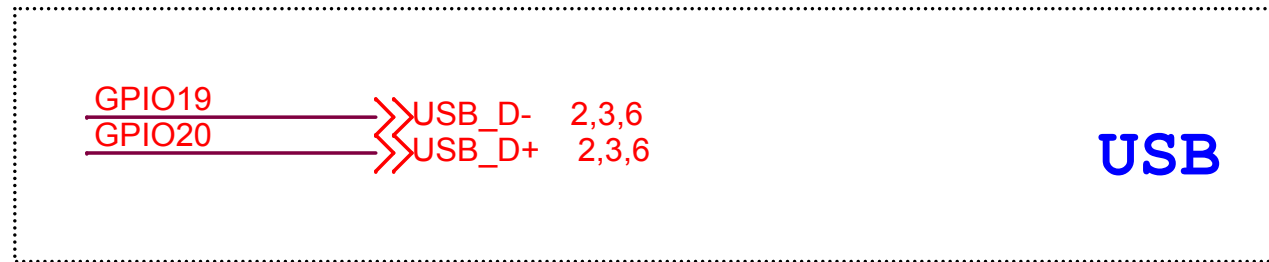
Size	Page Name	Rev	Proprietary
C	Power	1.0	
Date:	Wednesday, October 18, 2023	Sheet	2 of 7



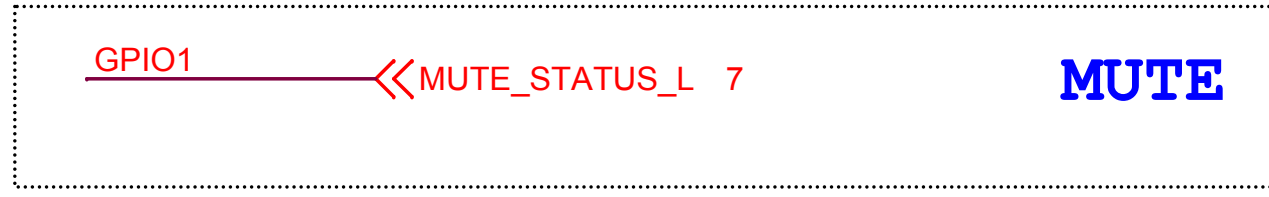
MCU



I2C



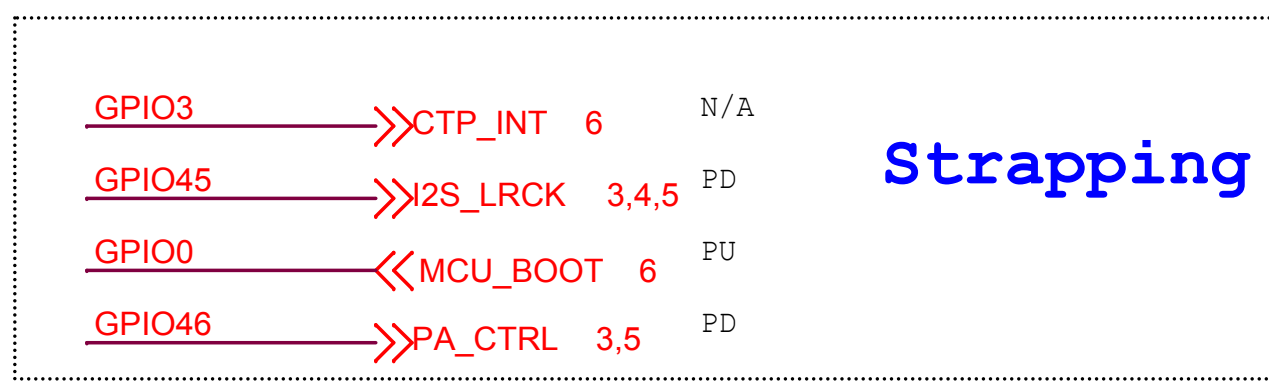
USB



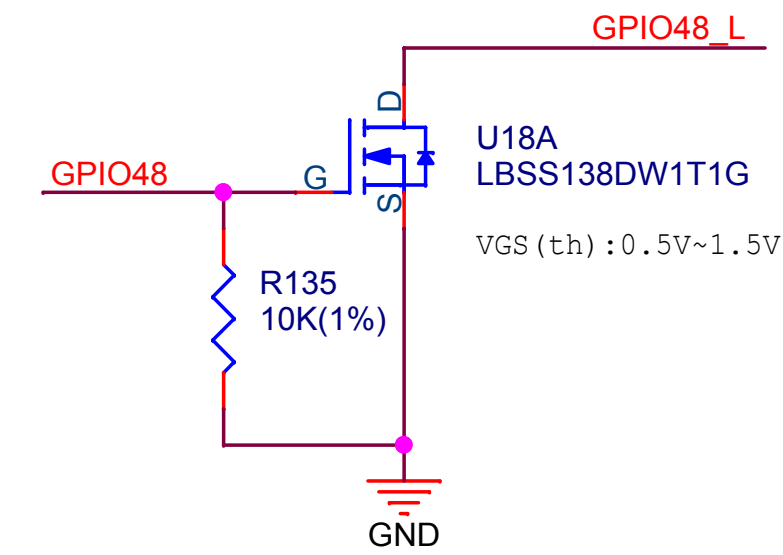
MUTE



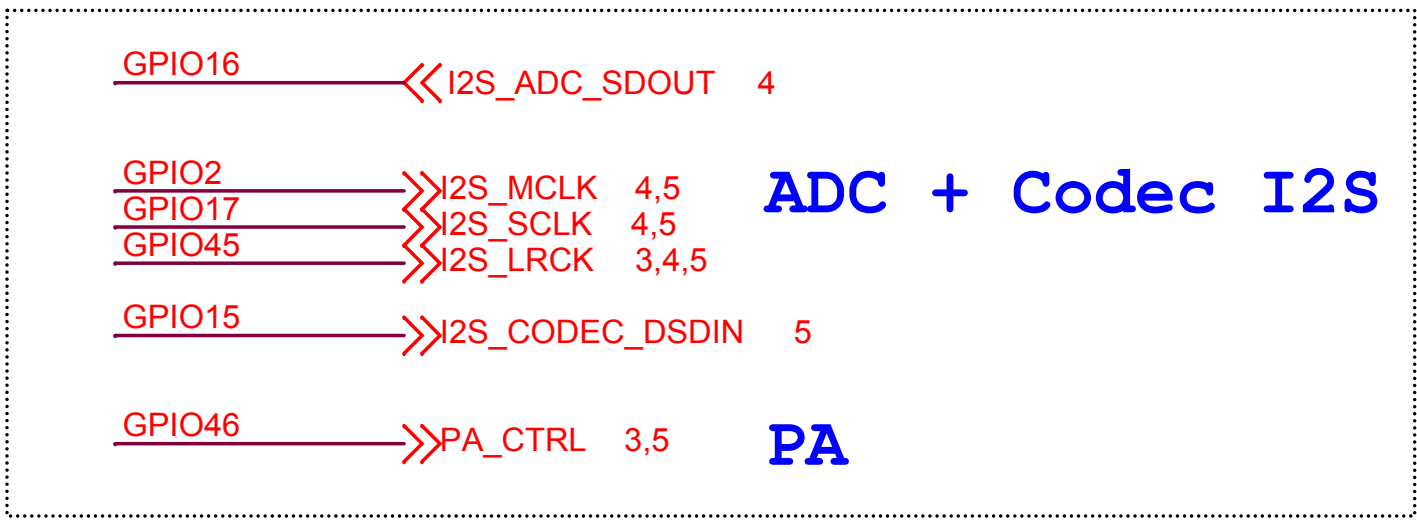
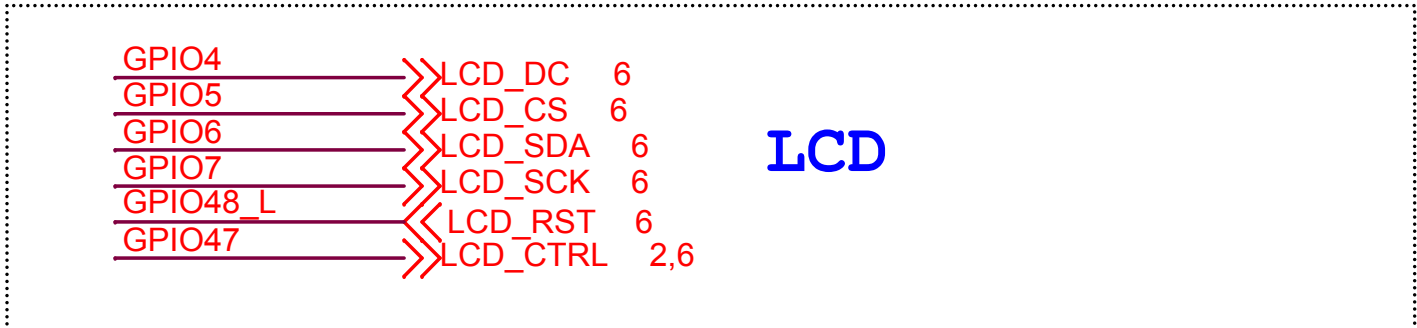
BUTTON



Strapping

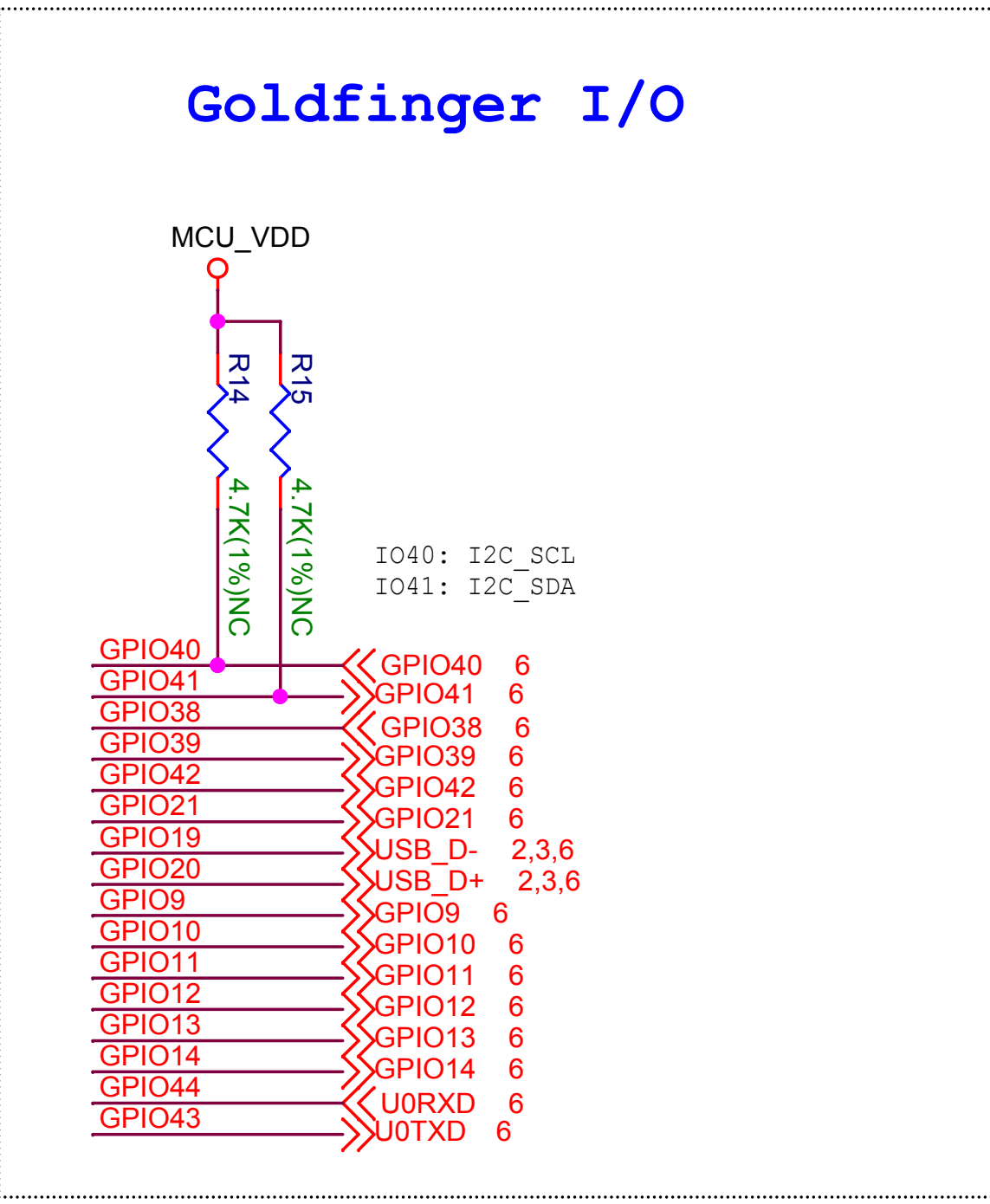


LCD



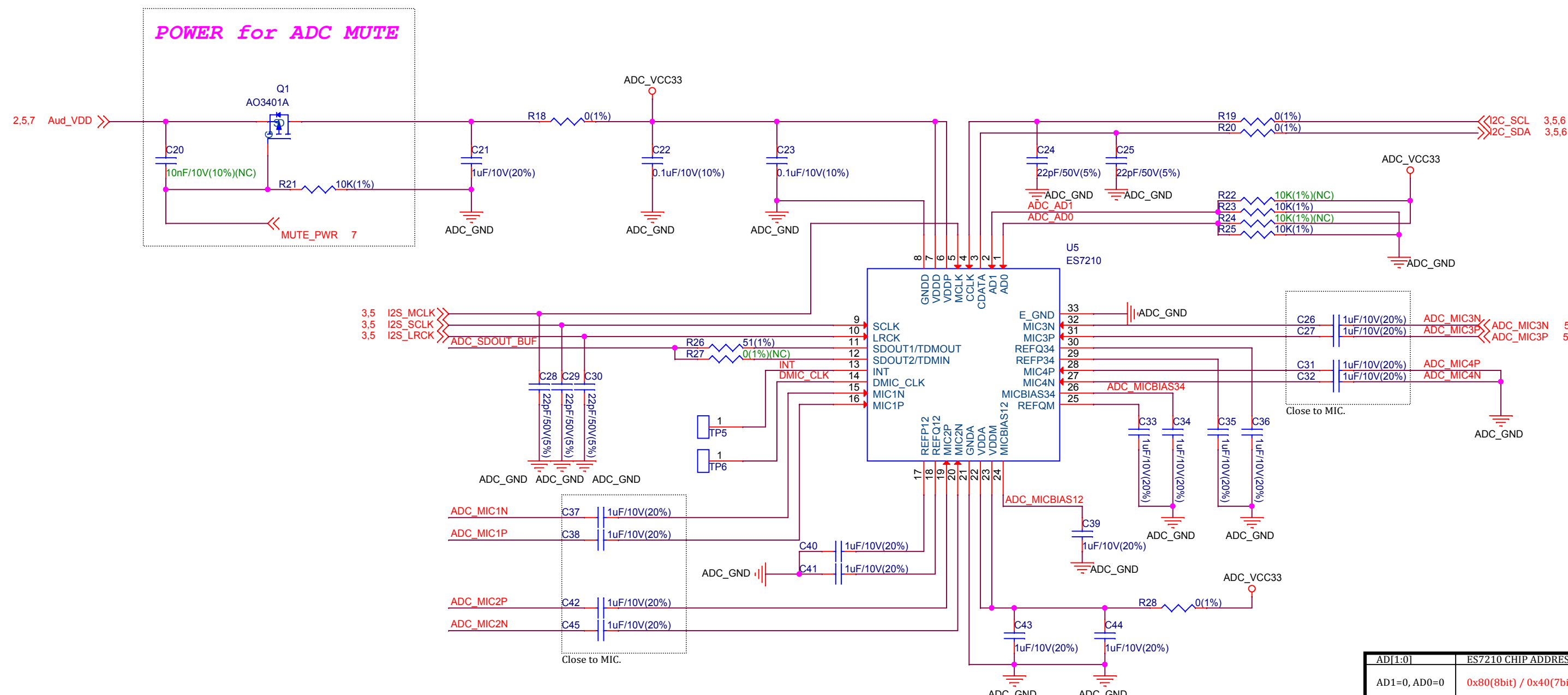
ADC + Codec I2S

PA



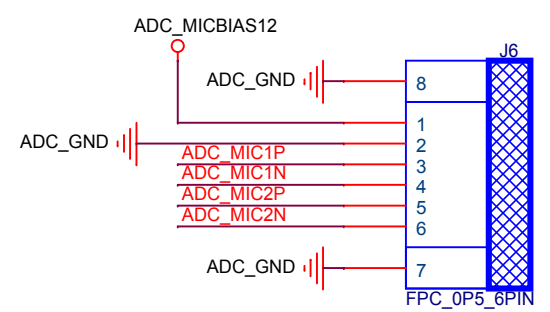
Goldfinger I/O

ESPRESSIF			
乐鑫信息科技（上海）股份有限公司			
Title ESP32-S3-BOX-3-MB			
Size A4	Page Name Module	Rev 1.0	Proprietary
Date:	Wednesday, October 18, 2023	Sheet 3	of 7



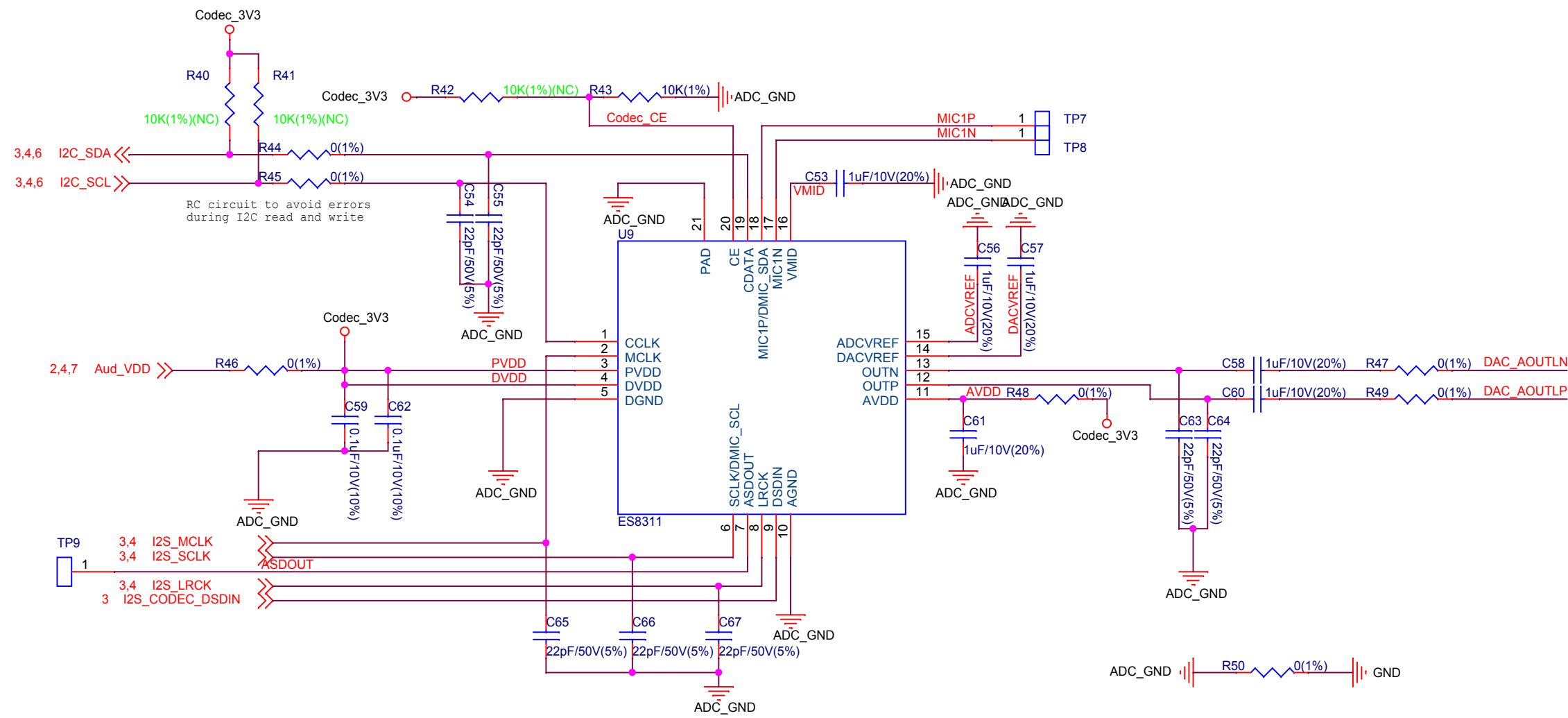
AD1:0	ES7210 CHIP ADDRESS
AD1=0, AD0=0	0x80(8bit) / 0x40(7bit) (Default)
AD1=0, AD0=1	0x82(8bit) / 0x41(7bit)
AD1=1, AD0=0	0x84(8bit) / 0x42(7bit)
AD1=1, AD0=1	0x86(8bit) / 0x43(7bit)

ADC

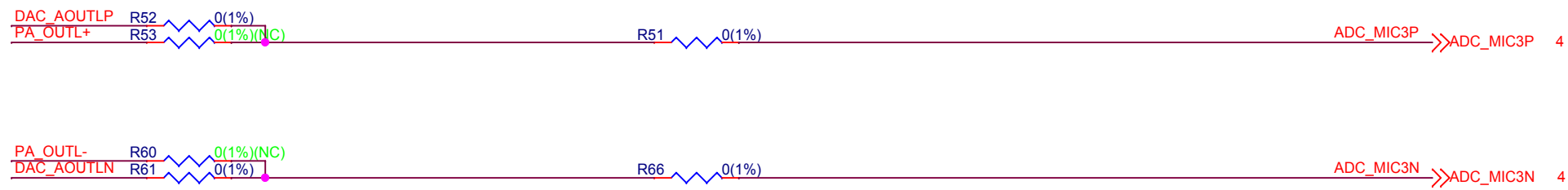


AMIC X2

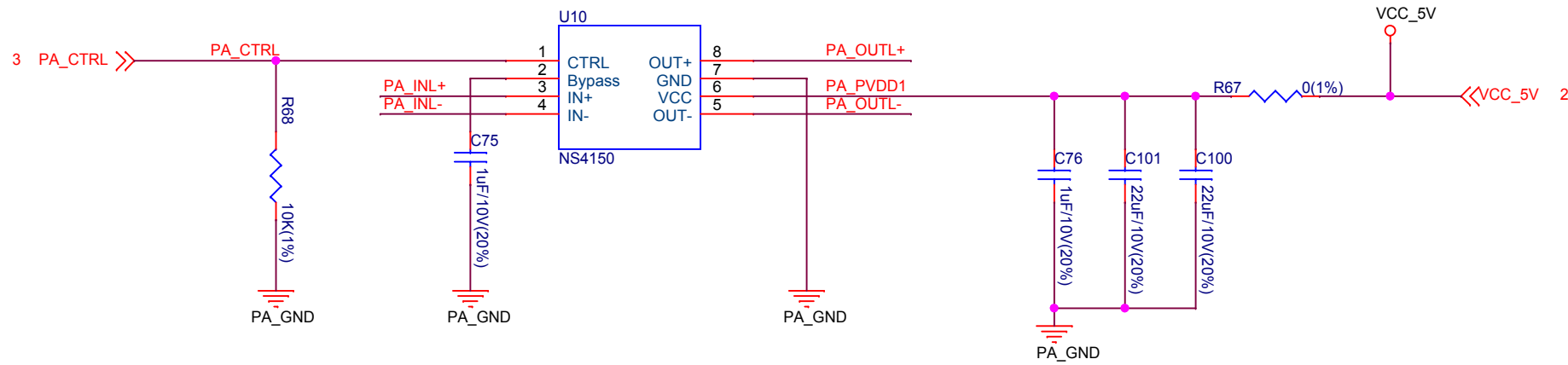
Codec



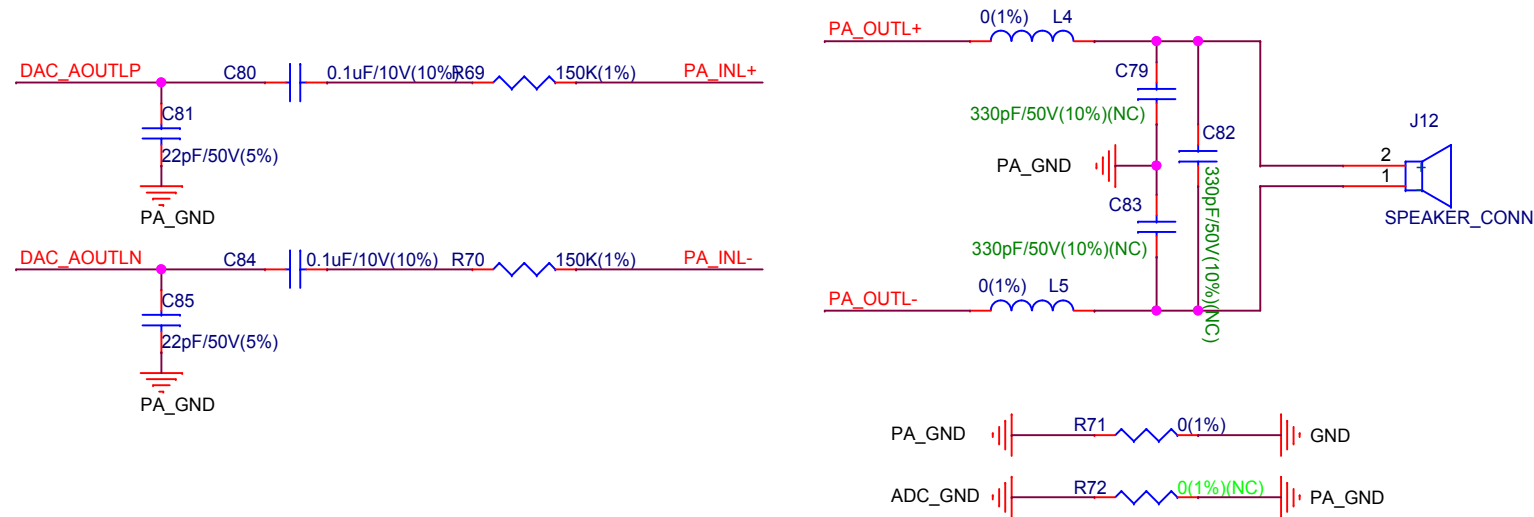
AEC



PA



Speaker



ESPRESSIF

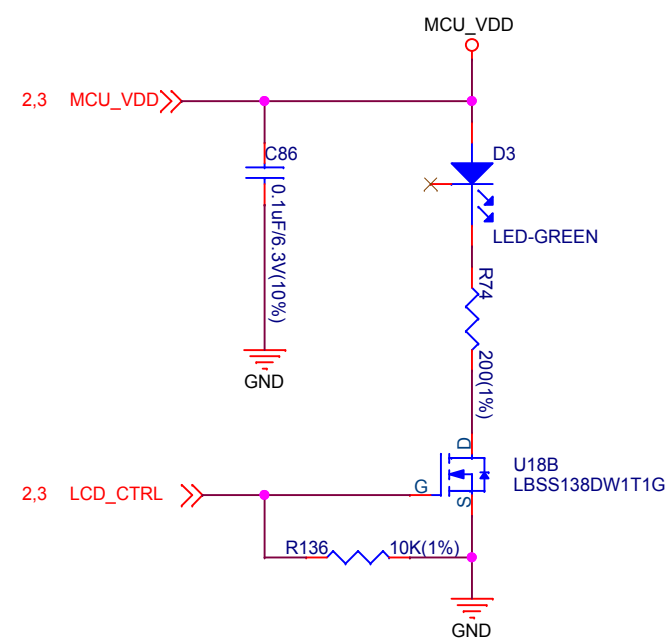
乐鑫信息科技(上海)股份有限公司

Title
ESP32-S3-BOX-3-MB

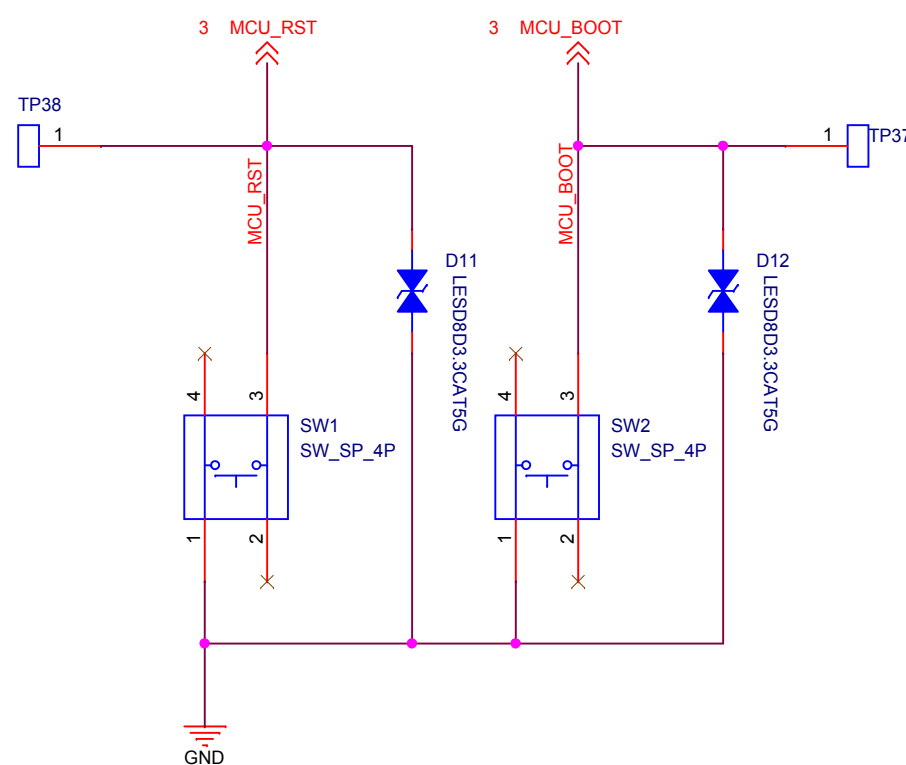
Size	Page Name	Rev	Proprietary
C	Codec	1.0	

Date:	Wednesday, October 18, 2023	Sheet	5 of 7
-------	-----------------------------	-------	--------

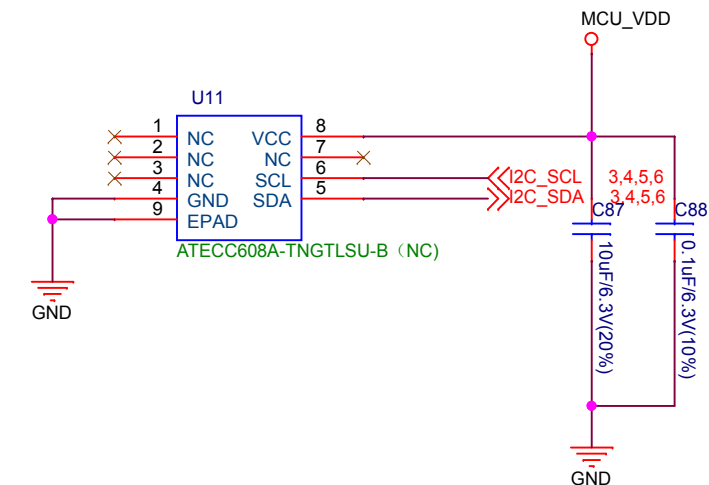
LED



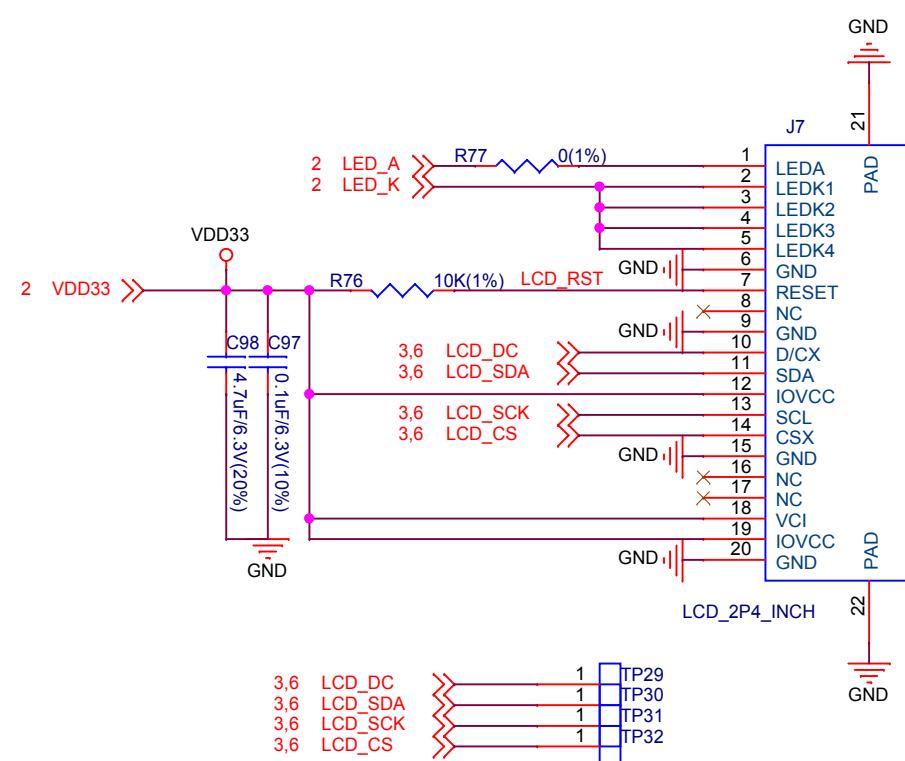
BUTTON



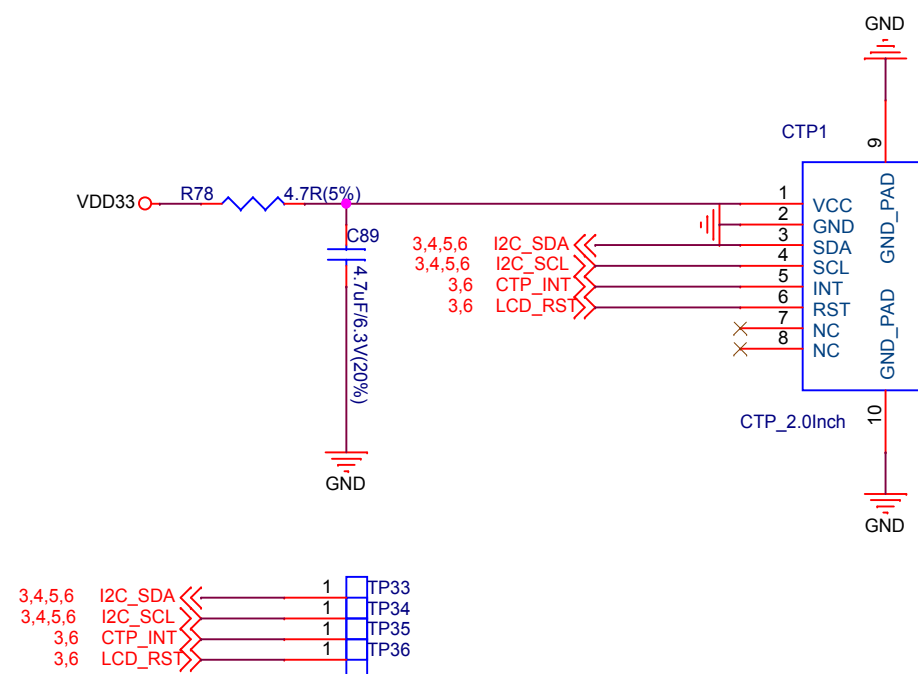
Hardware encryption chip



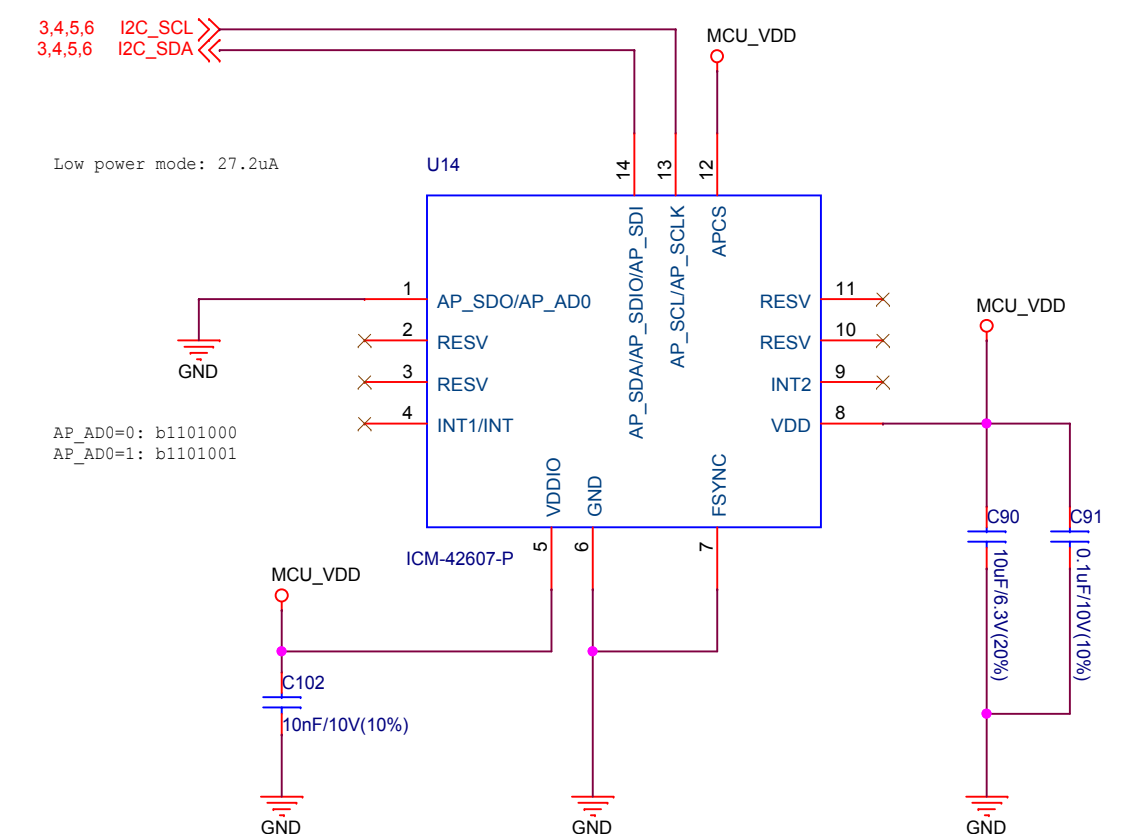
LCD



C-TP



IMU



Goldfinger

