

UC236A
V5.01

Title			
		UC236A	
Size	Document Number		Rev
A3	Cover Page		5.01
Date:	Friday, March 14, 2025		Sheet 1 of 10

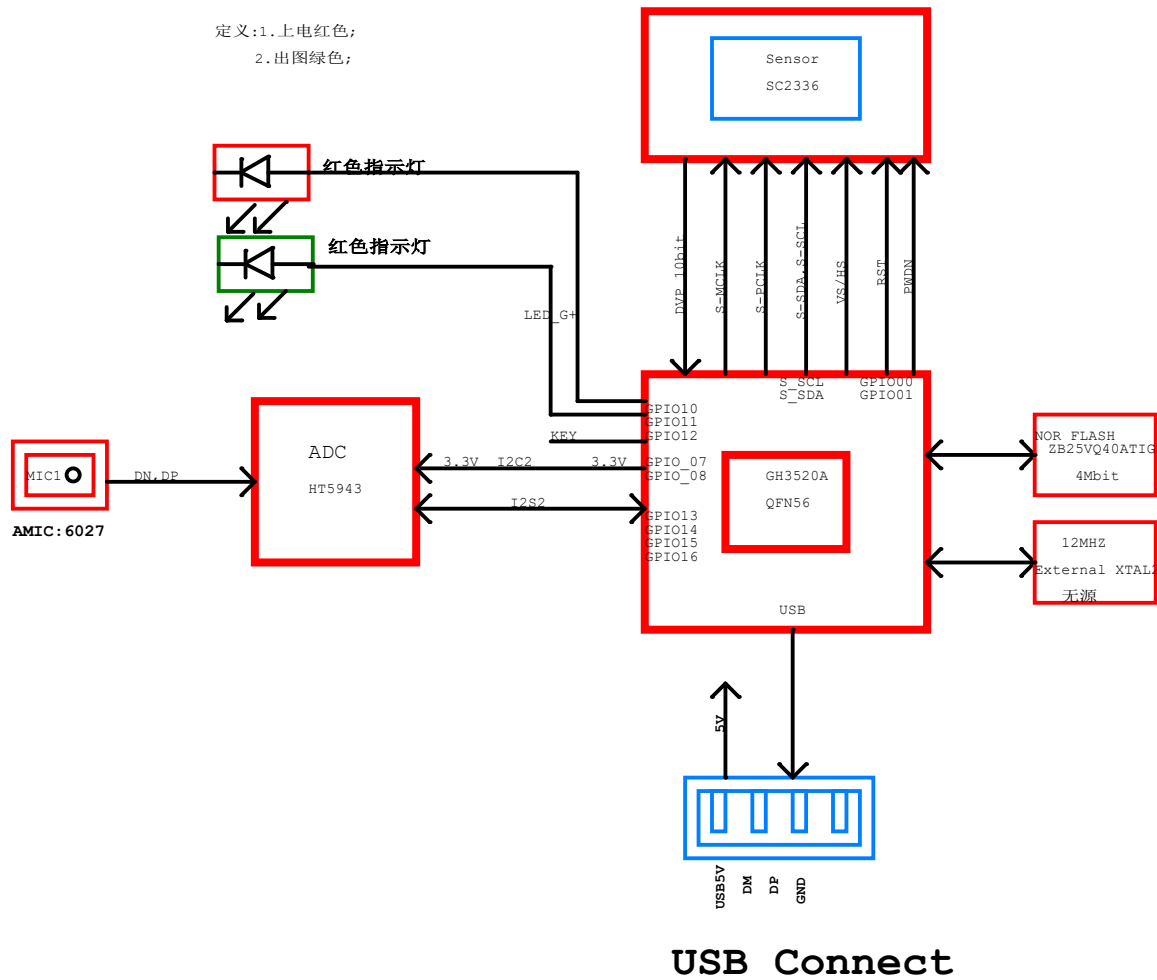
Index and Notes

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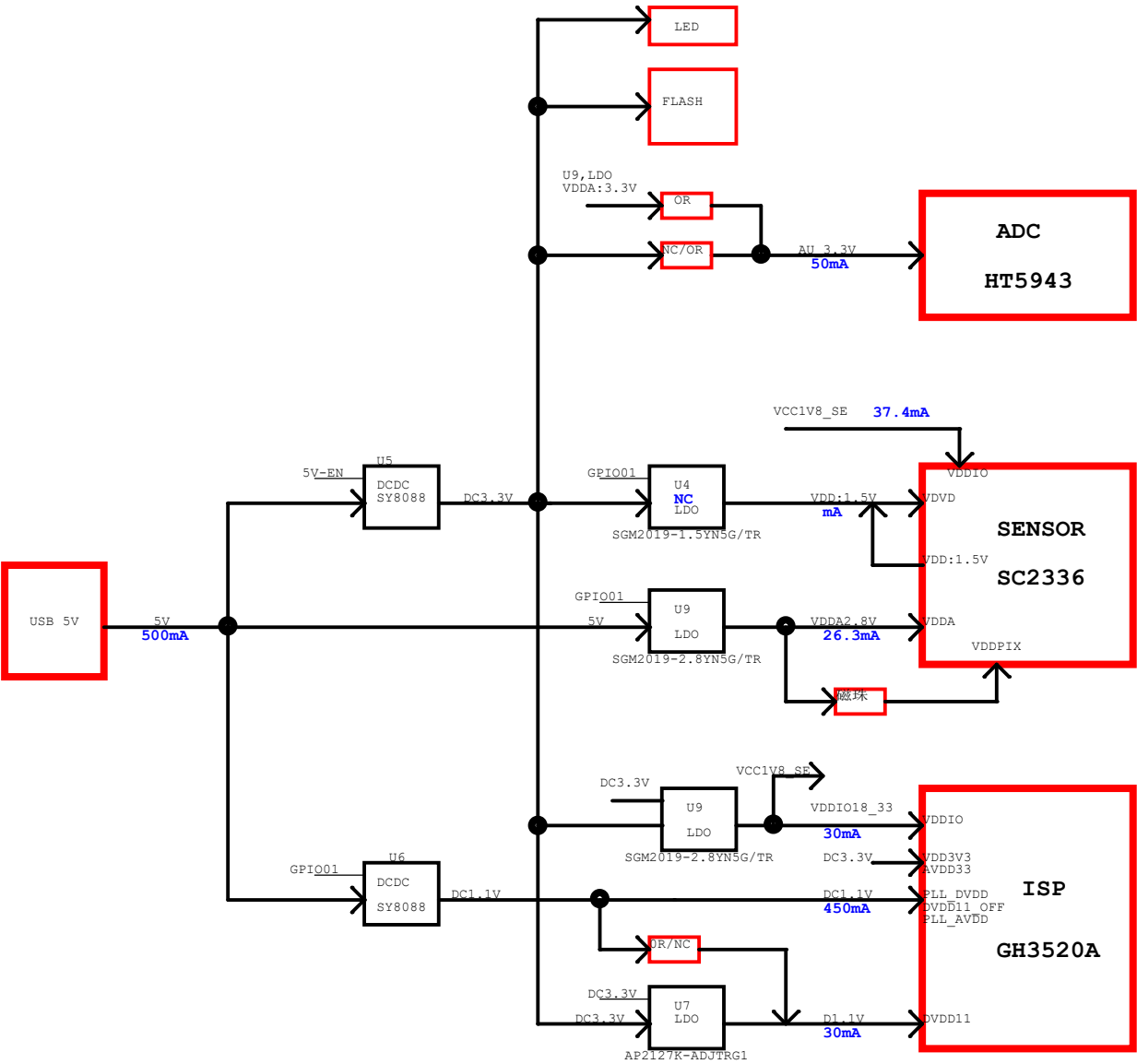
Revision History

Version	Date	Author	Change Note	Approved
V0.1	2025.03.14	WJL	打样版本	

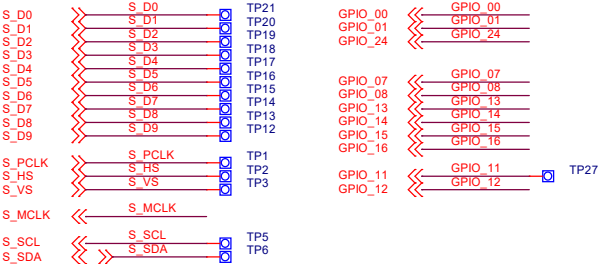
BLOCK DIAGRAM



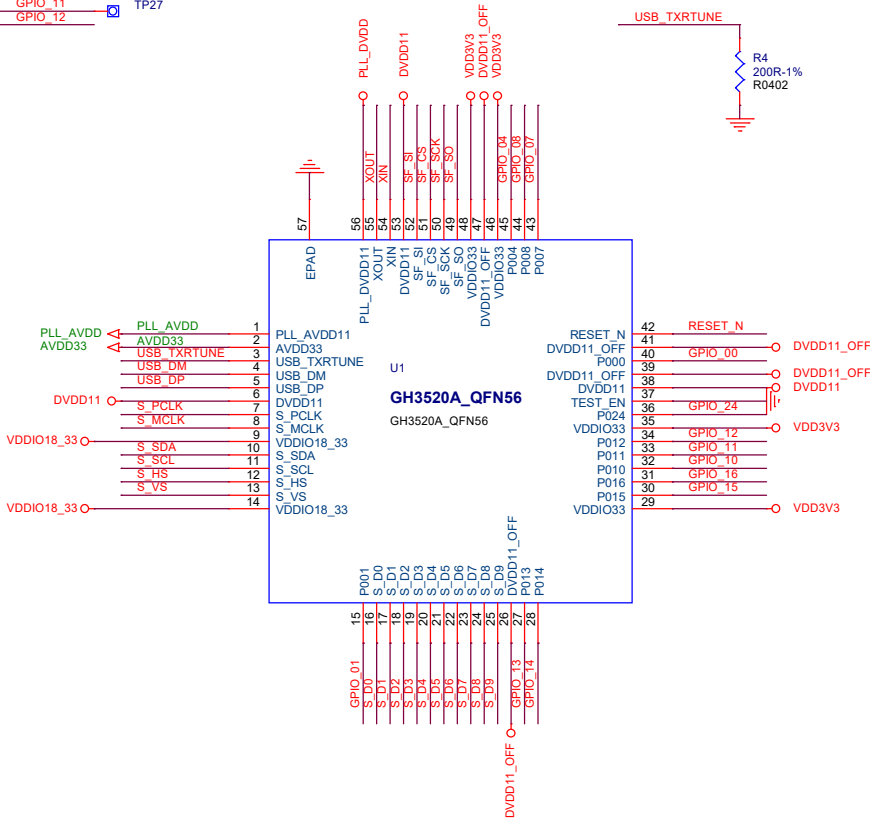
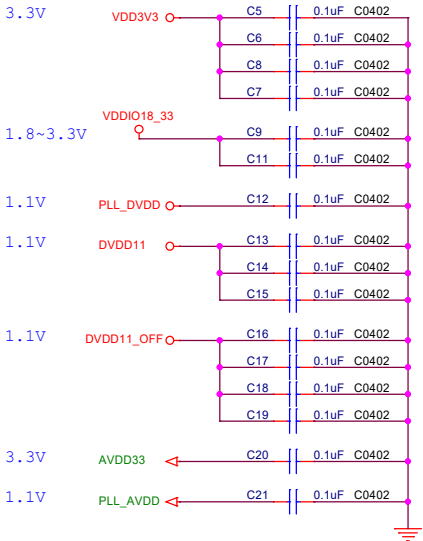
POWER MAP



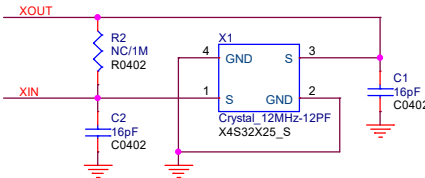
GH3520A_QFN56



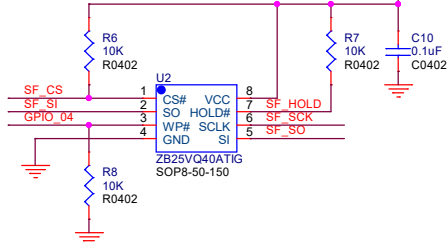
VOLTAGE	GH3520A	FUNCTION
1.8-3.3V	GPIO 0	RESET (SENSOR)
1.8-3.3V	GPIO 1	SENSOR POWER EN
1.8-3.3V	GPIO 4	FLASH WF
3.3V	GPIO 7	I2S_SCL
3.3V	GPIO 8	I2S_SDA
3.3V	GPIO 10	LED-EN
3.3V	GPIO 11	LED/UART TX
3.3V	GPIO 12	KEY/UART RX
3.3V	GPIO 13	I2S_RX_WS
3.3V	GPIO 14	I2S_RX_SCK
3.3V	GPIO 15	I2S_RX_MCK
3.3V	GPIO 16	I2S_RX_WS
3.3V	GPIO 24	1.1V POWER EN



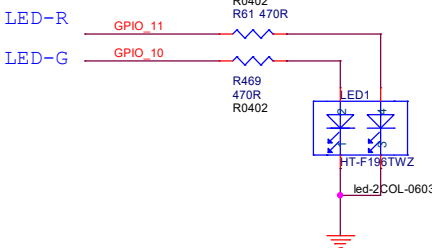
External XTAL



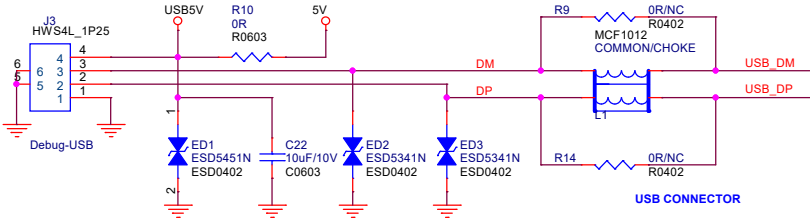
SERIAL FLASH



LED: 红+绿



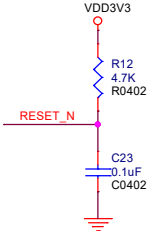
USB CONNECTOR



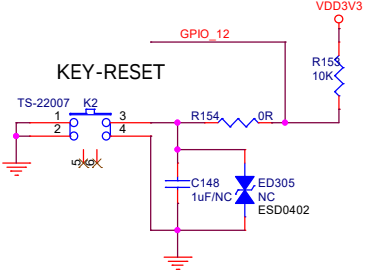
USB Differential Signals Impedance : 90 ohm

* Be closed to ASIC.
* The trace of DM & DP are better to be straight and short and parallel.

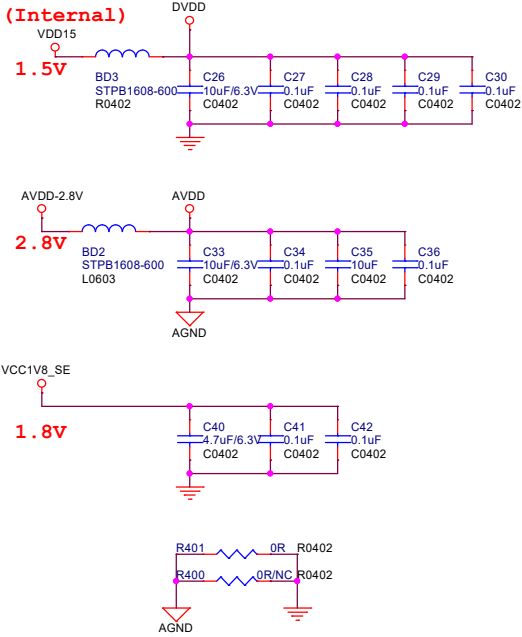
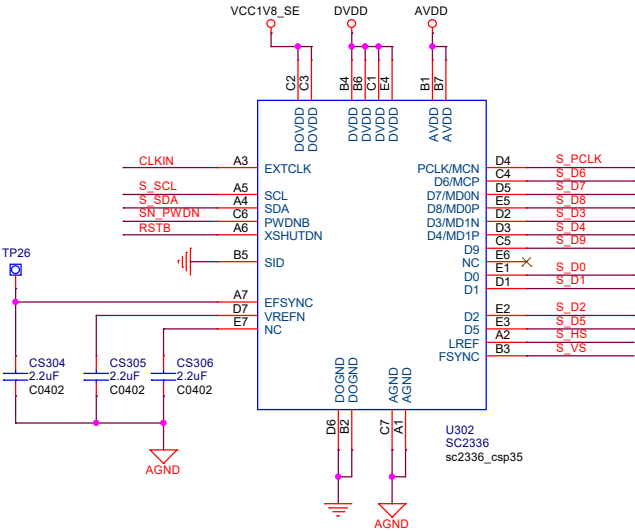
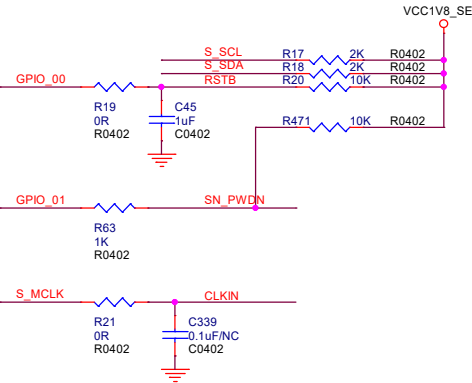
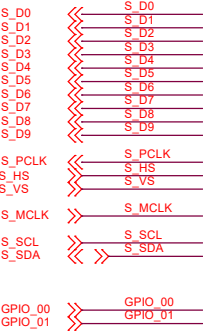
SYS-RESET



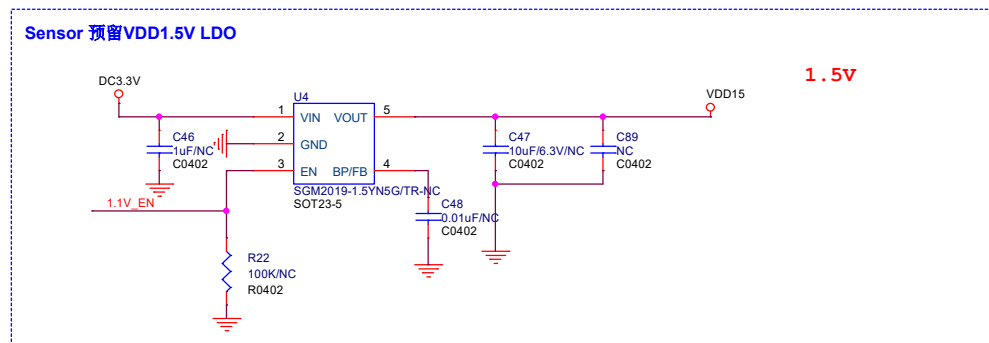
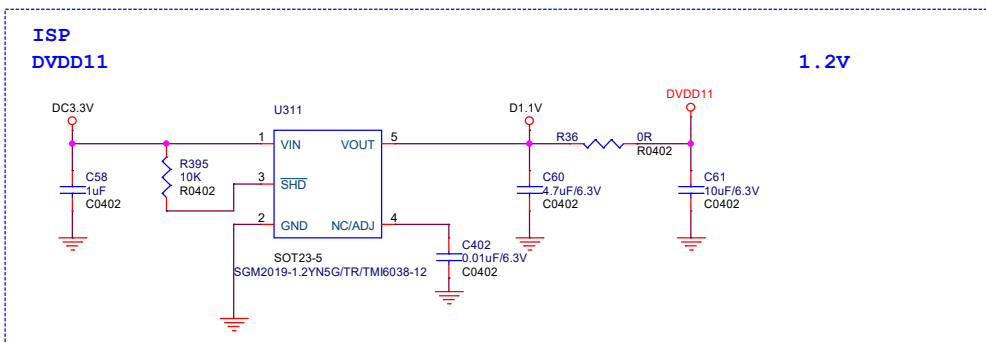
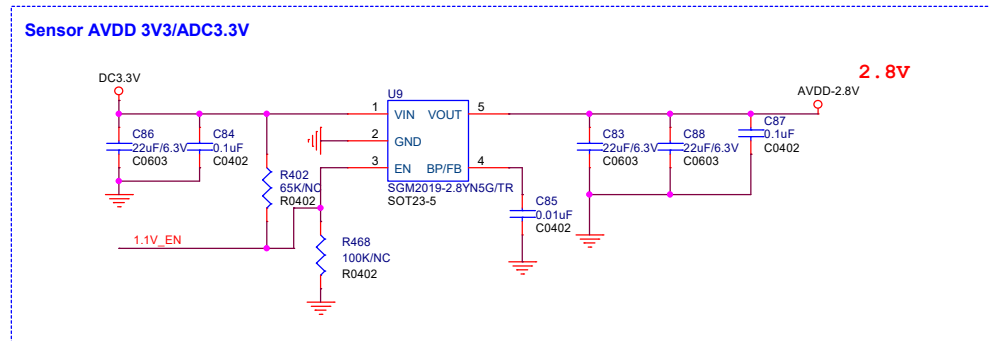
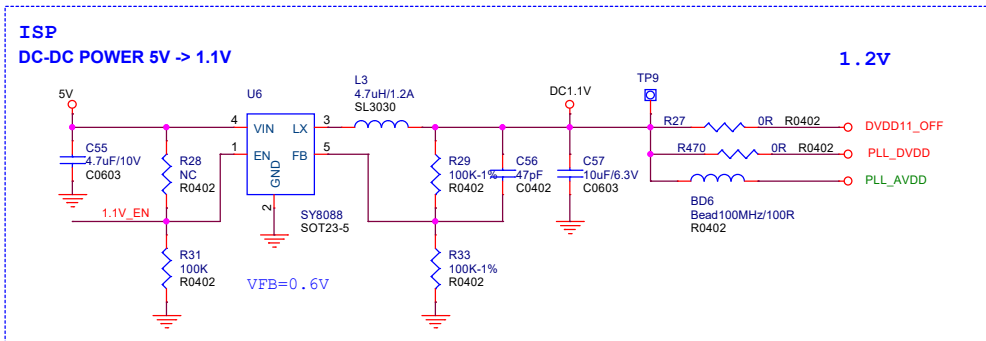
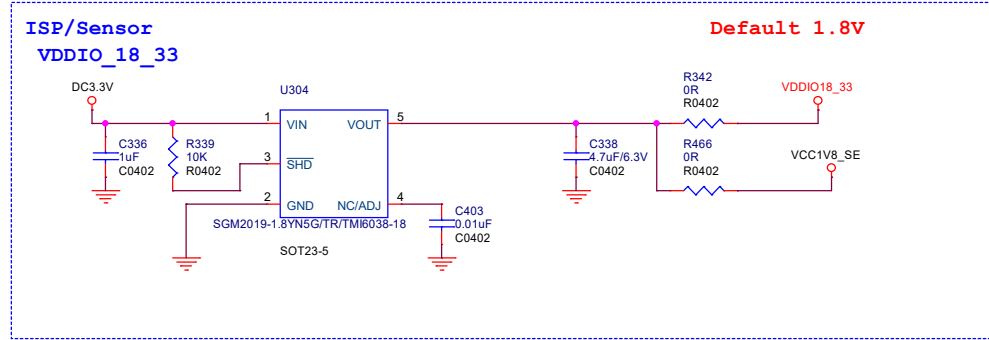
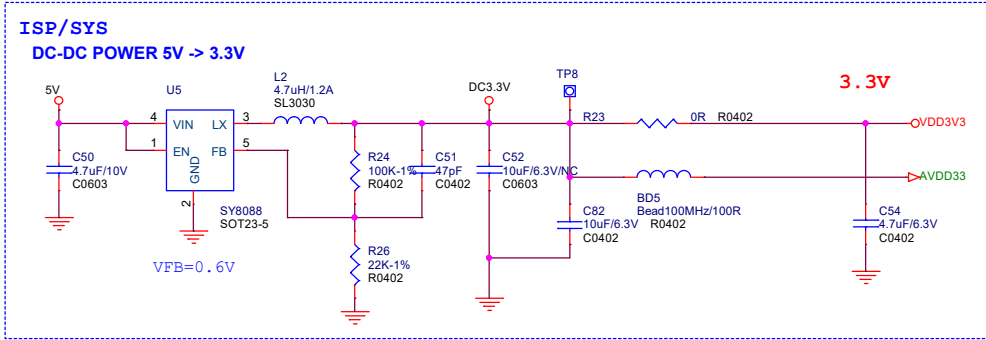
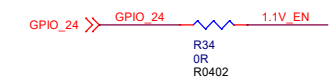
KEY-RESET



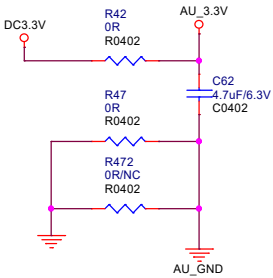
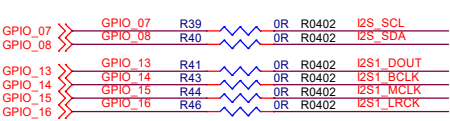
SENSOR



POWER

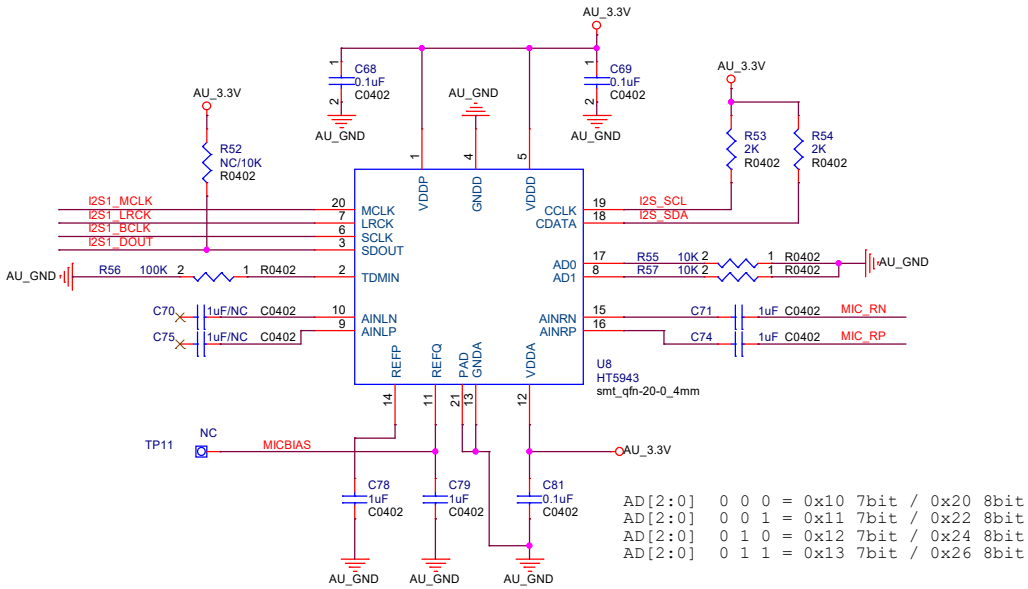


ADC / AMIC

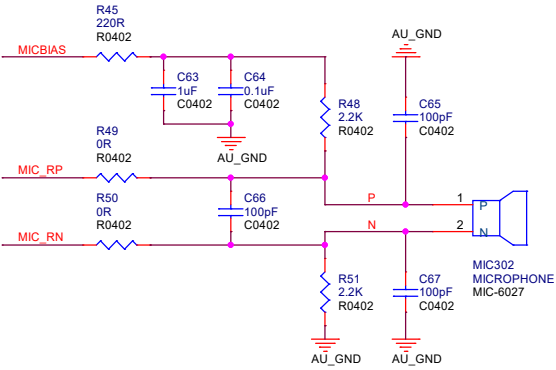


PIN NAME	FUNCTION1
GPIO7	I2S_SCL
GPIO8	I2S_SDA
GPIO13	I2S_SD (RX)
GPIO14	I2S_BCLK (RX)
GPIO15	I2S_MCLK (RX)
GPIO16	I2S_LRCK (RX)

ADC : HT5943



MIC RIGHT



Location hole

