

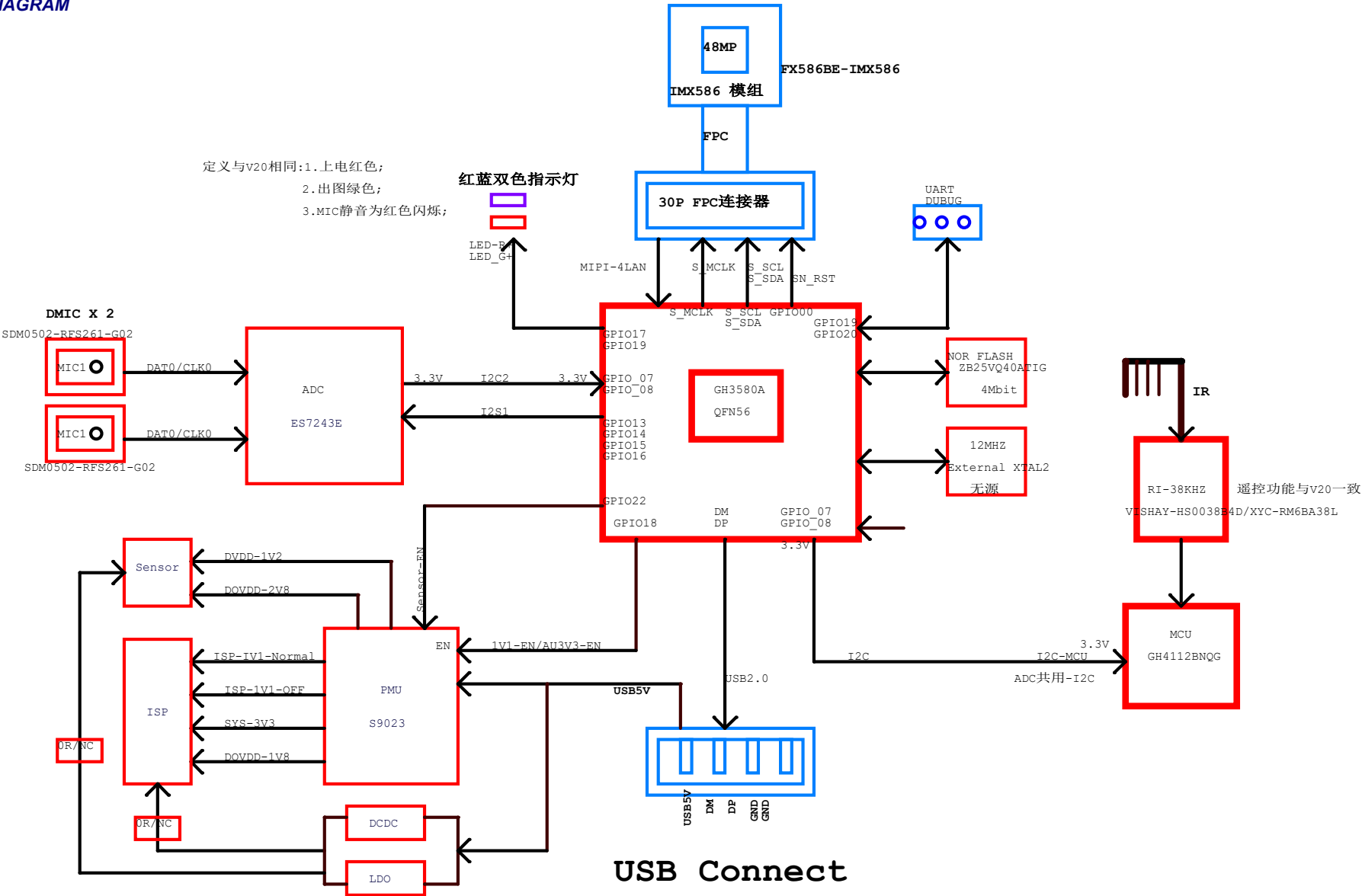
UC586K-MAIN
V0.2

Index and Notes

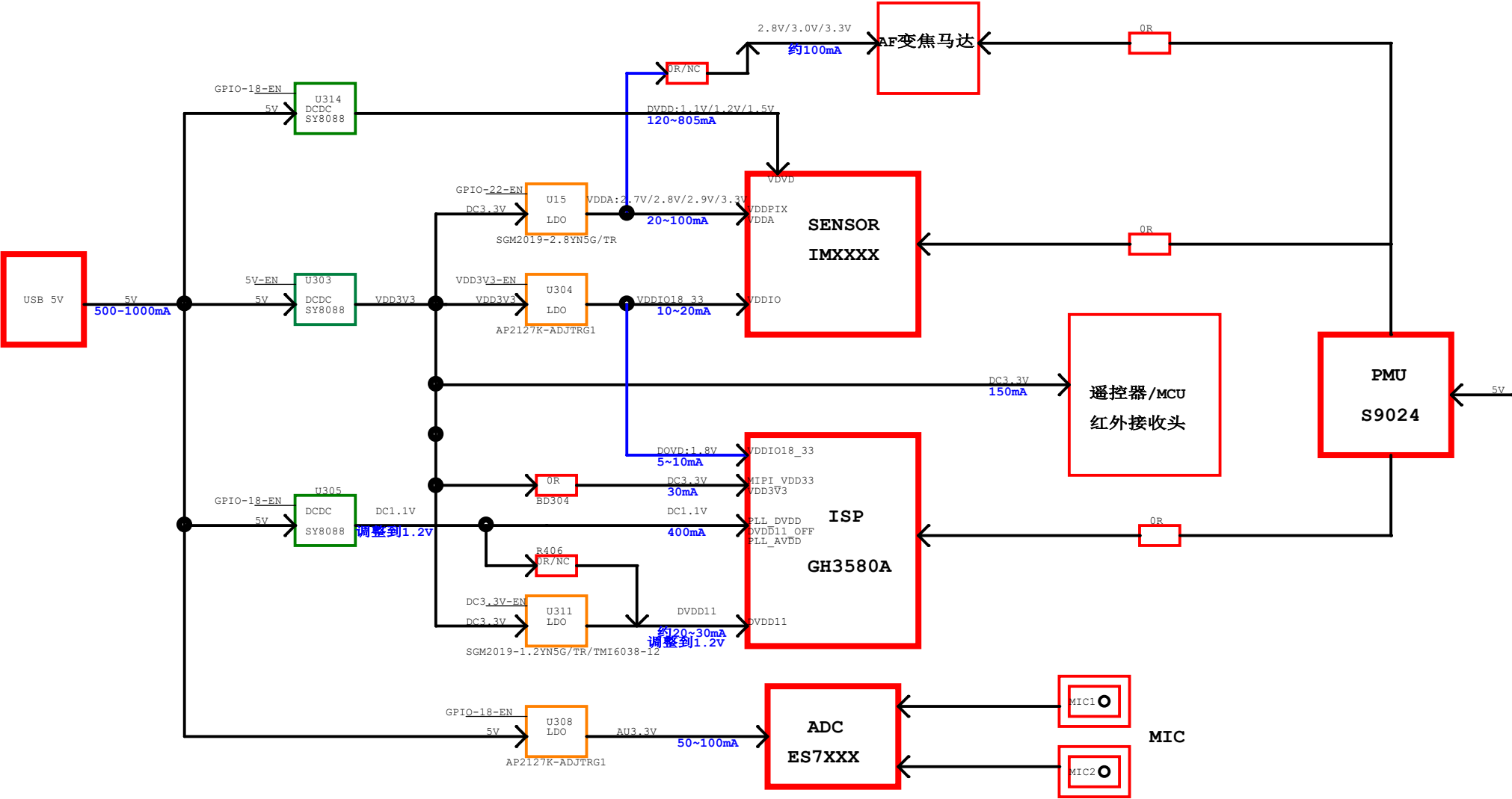
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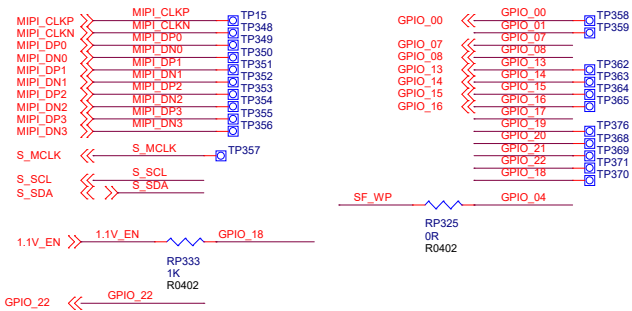
Revision History

Version	Date	Author	Change Note	Approved
V0.1	2024.11.08	WJL	打样版本	
V0.2	2024.11.31	WJL	更新电源架构，预留串口，MCU信号等	



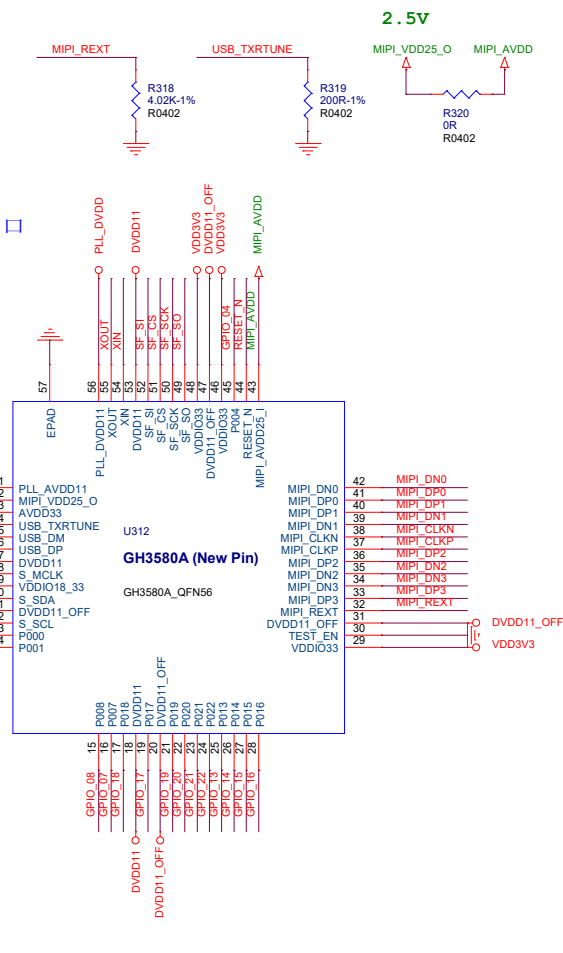
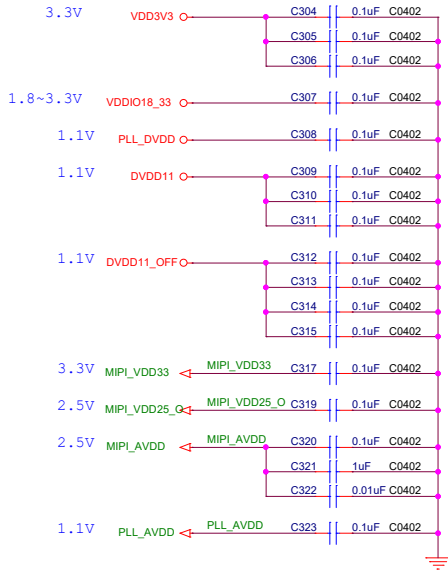
POWER MAP



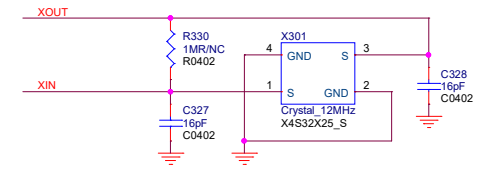


VOLTAGE	GR3580A	FUNCTION
1.8~3.3V	GPIO 0	RESET (SENSOR)
1.8~3.3V	GPIO 1	
1.8~3.3V	GPIO 4	FLASH WP/ SNAP SHOT
3.3V	GPIO 7	I2S SCL/MCD/7243E
3.3V	GPIO 8	I2S SDA/MCD/7243E
3.3V	GPIO 13	I2S RX SD
3.3V	GPIO 14	I2S RX SCK
3.3V	GPIO 15	I2S RX MCK
3.3V	GPIO 16	I2S RX NS
3.3V	GPIO 17	LED RRD
3.3V	GPIO 19	UART1 TX
3.3V	GPIO 20	UART1 RX
3.3V	GPIO 21	LED-GREEN
3.3V	GPIO 22	Serial-EN
3.3V	GPIO 18	1.1V_EN

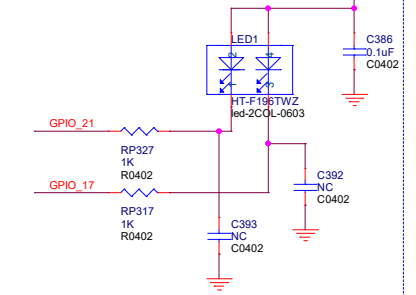
GPIO19,GPIO20预留出打印串口



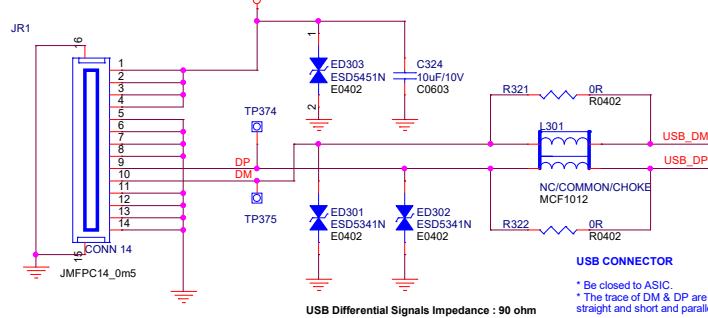
External XTAL



LED: 红+绿



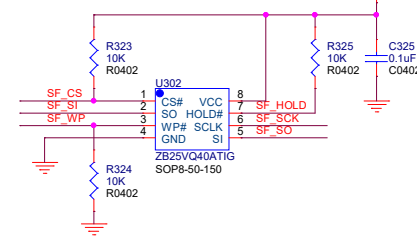
USB CONNECTOR



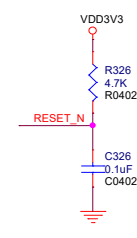
USB Differential Signals Impedance : 90 ohm

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

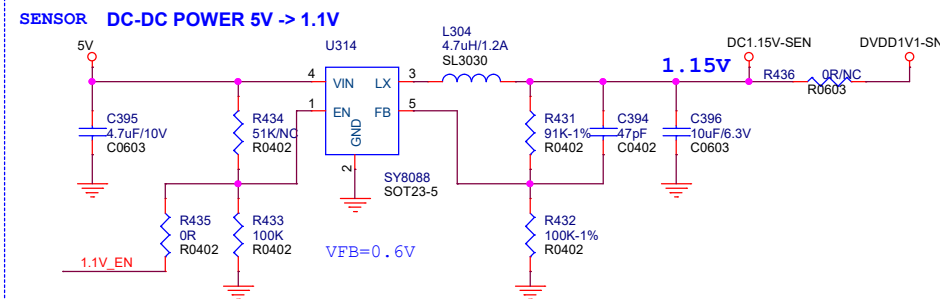
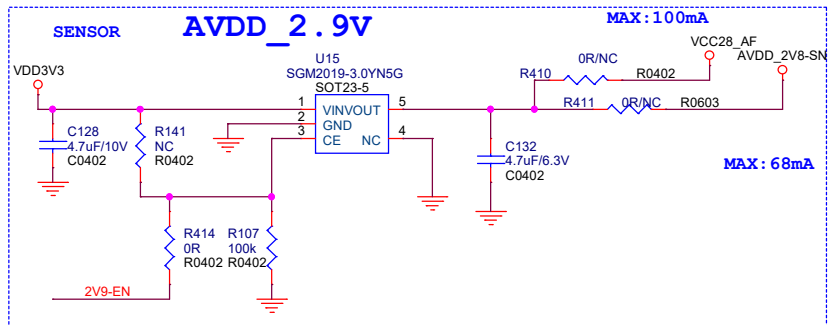
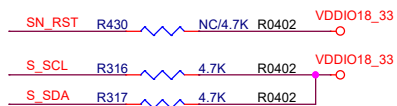
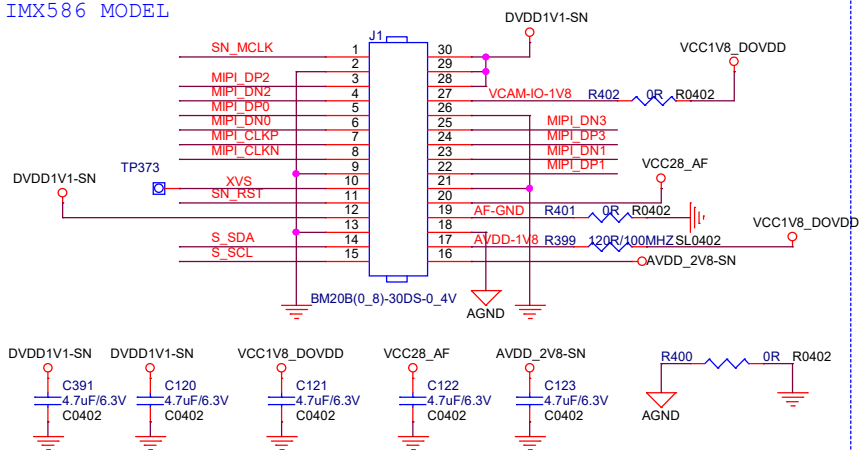
SERIAL FLASH



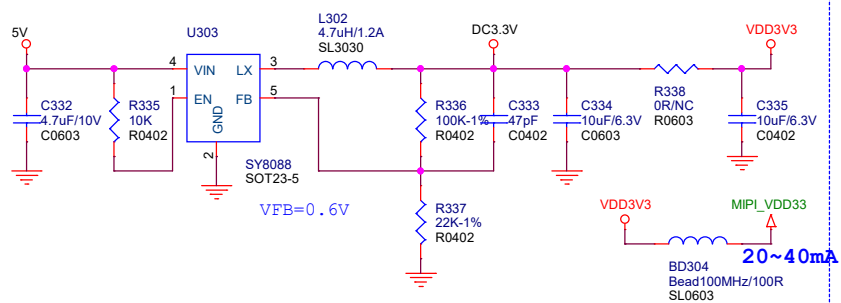
RC RESET



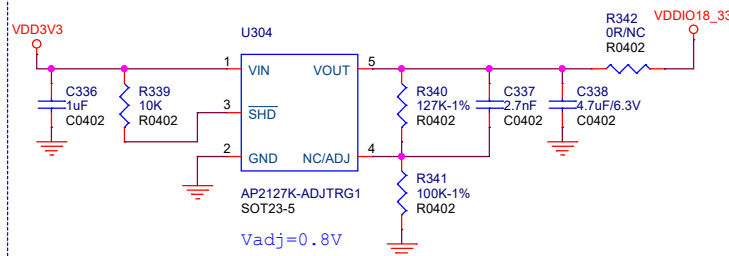
Title	宏瀚微 GRANDHAN	UC586K-MAIN
Size	Customer	ISP: GH3580A_QFN56
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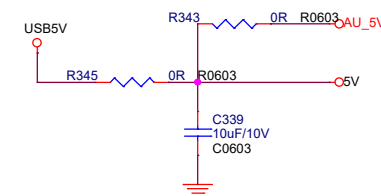
DC-DC POWER 5V -> 3.3V



Default 1.8V

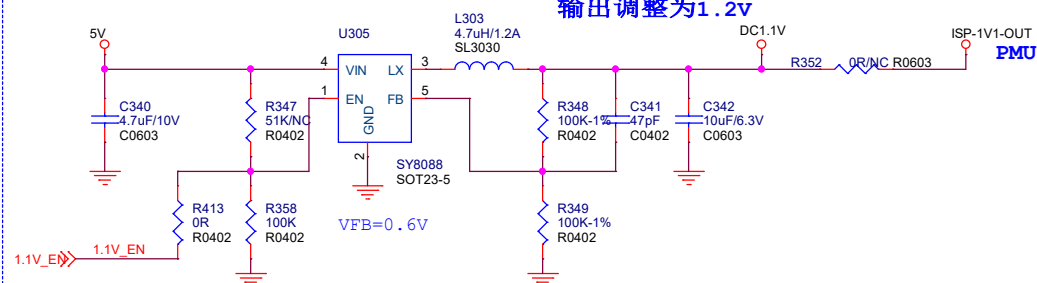


Power Source Select & LED



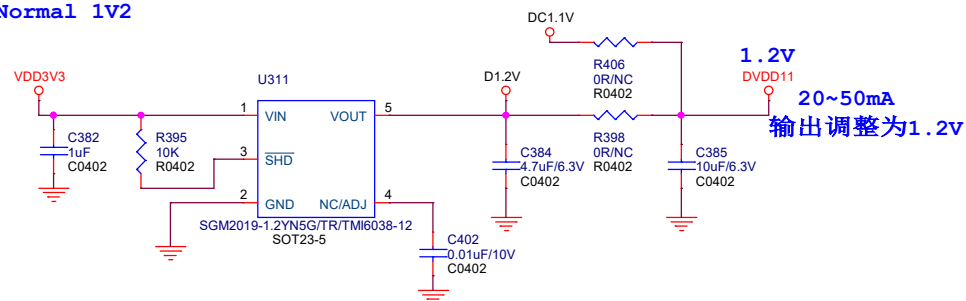
DC-DC POWER 5V -> 1.2V

输出调整为1.2v



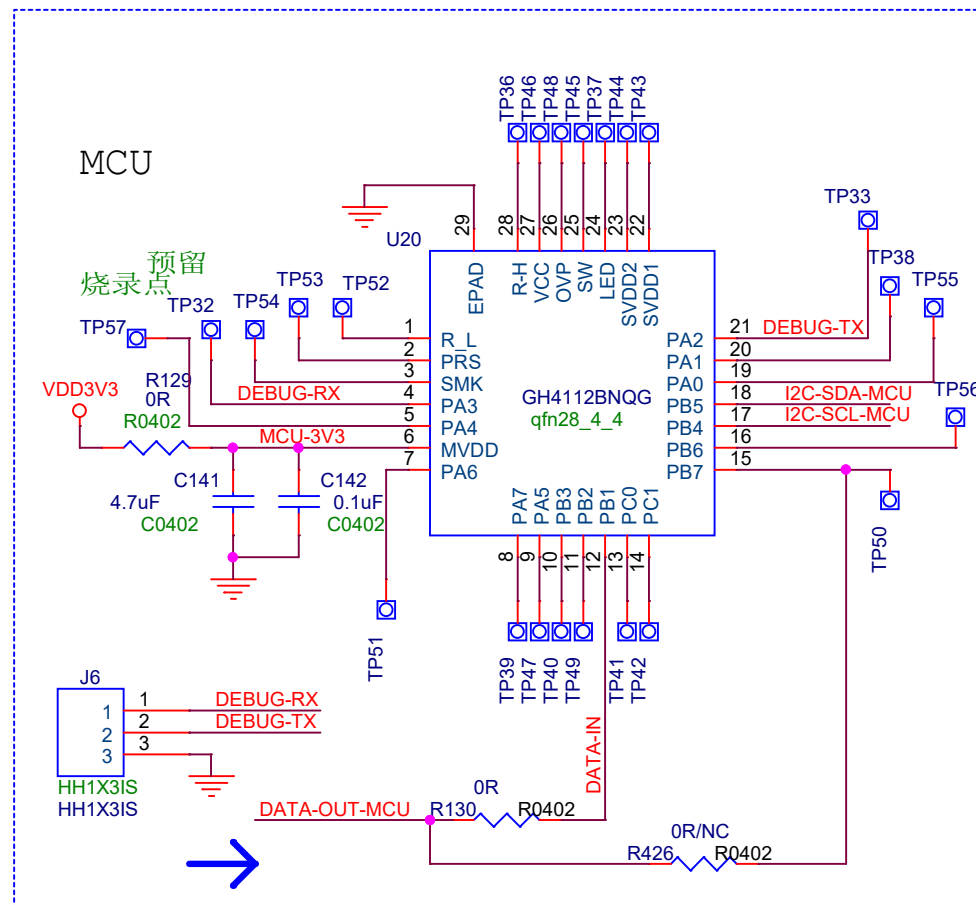
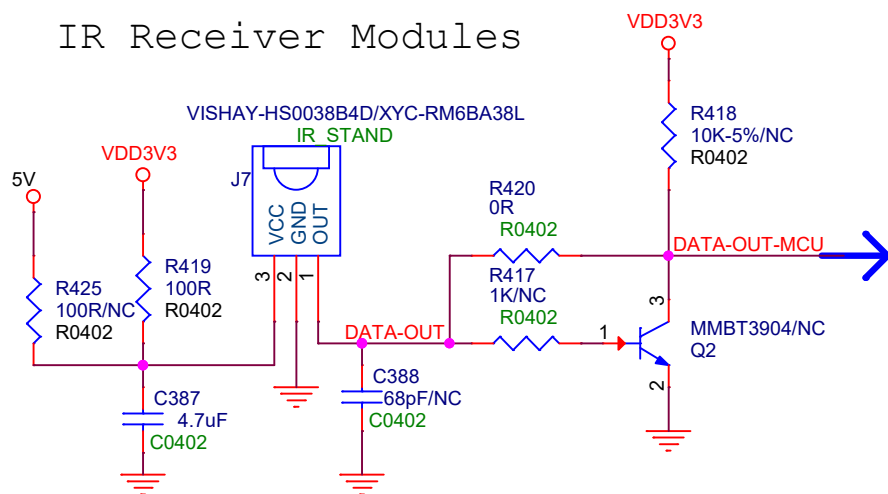
Normal 1v2

预留DCDC供电，如果能保证DCDC电源性能稳定，可尝试不贴U311



 宏瀚微 GRANDHAN					UC586K-MAIN				
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GPIO_08 >> GPIO_08 RP328 0R R0402 I2C-SDA-MCU
GPIO_07 >> GPIO_07 RP329 0R R0402 I2C-SCL-MCU



Location Hole

