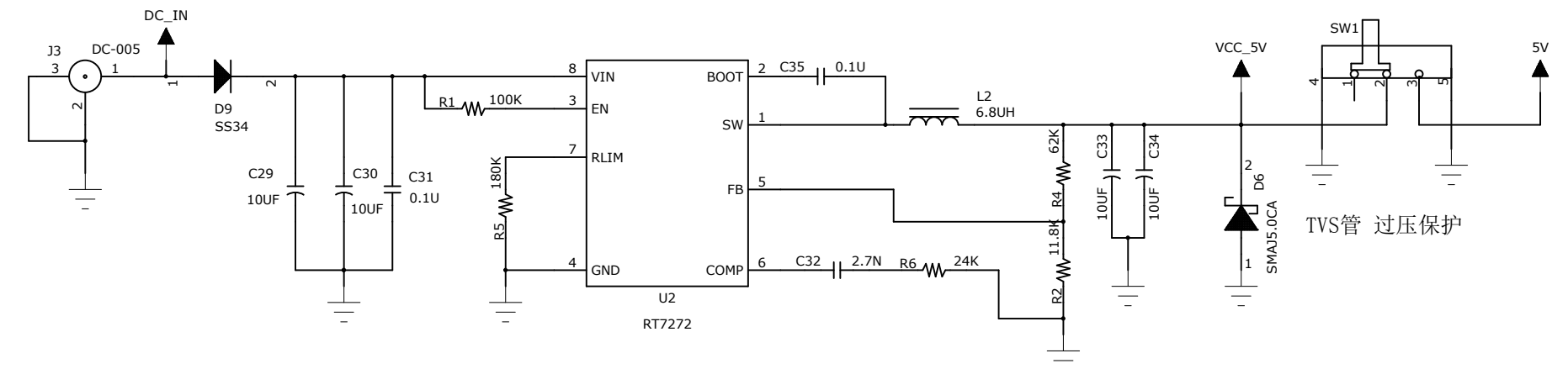


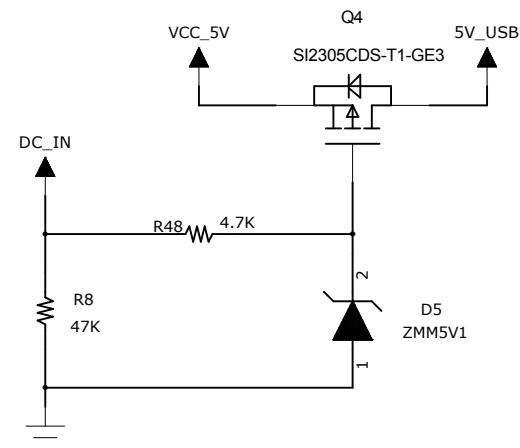
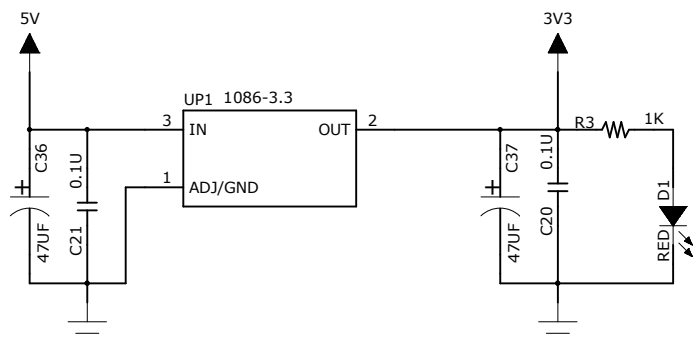
# 电源供电

## DC DC + LDO 方案

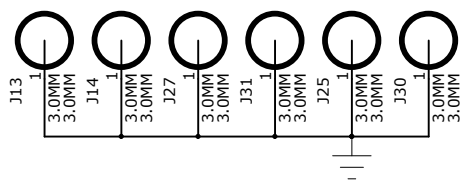
DC IN : 6V~12V

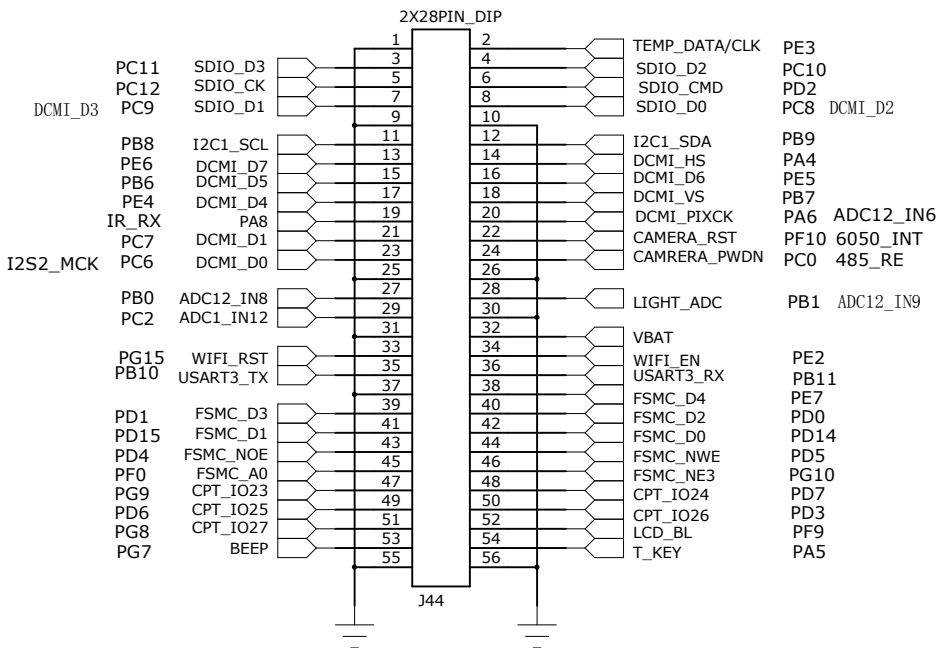
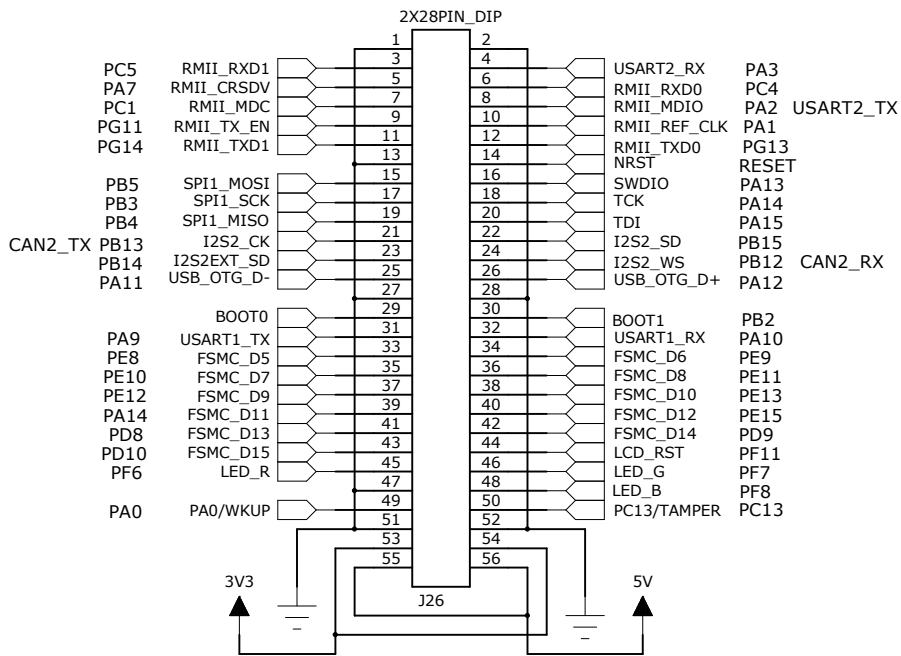


TVS管 过压保护



外部电源供电时断开USB供电，防止灌电流，保护电脑USB口

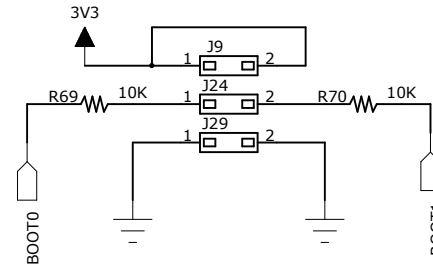




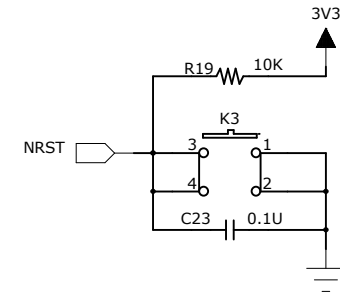
## F407 BOOT设置

BOOT0	BOOT1	启动方式
0	X	用户闪存
1	0	系统存储器/ISP
1	1	内嵌SRAM

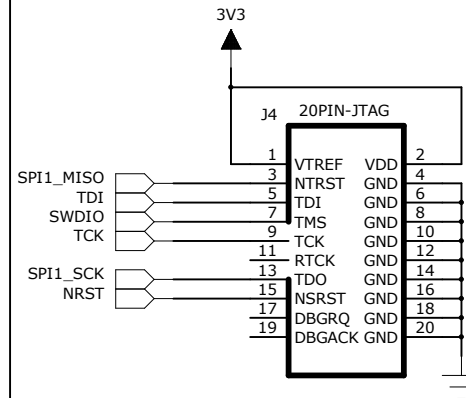
默认配置是用户闪存（即内部Flash）



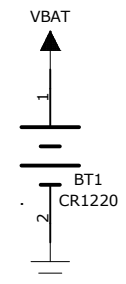
## 复位



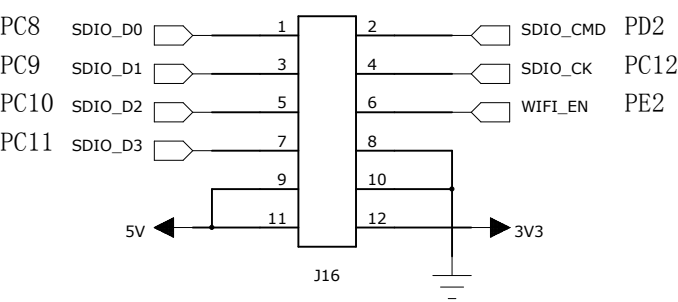
## 下载



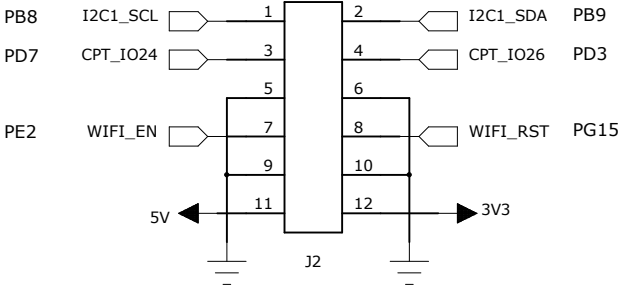
## RTC\_BAT



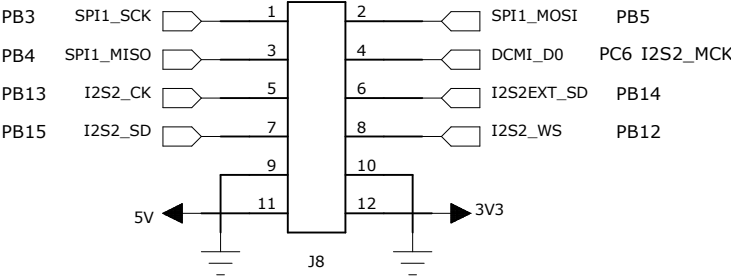
SDIO接口



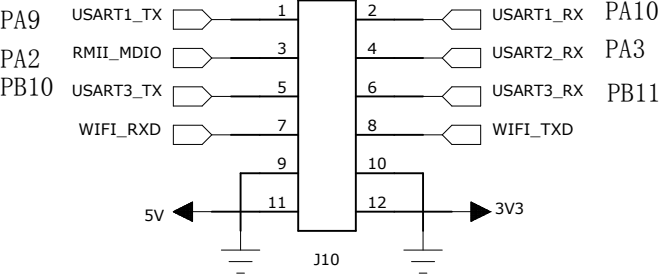
I2C接口



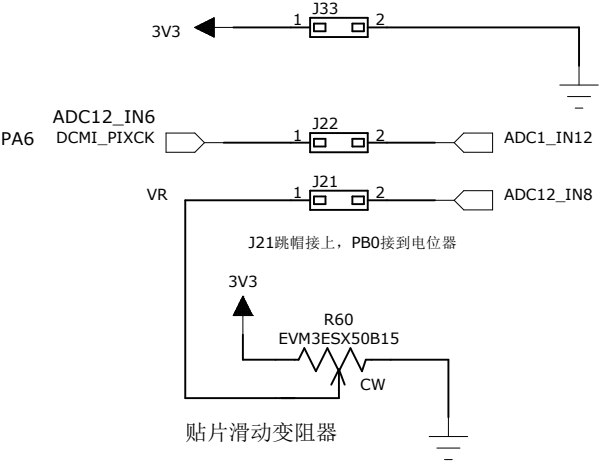
SPI/I2S接口



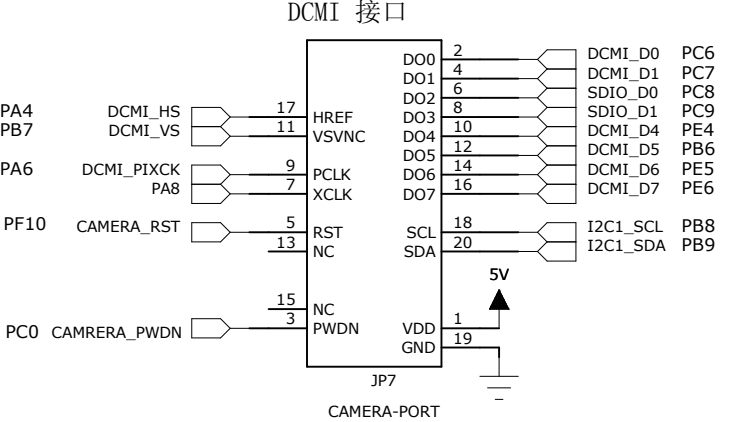
USART1/2/3接口



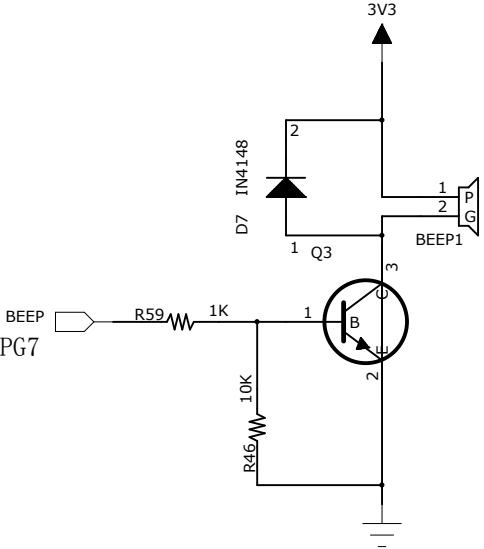
ADC接口



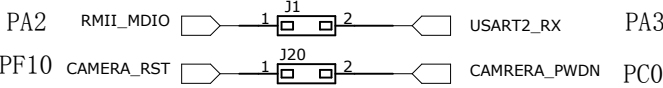
摄像头接口



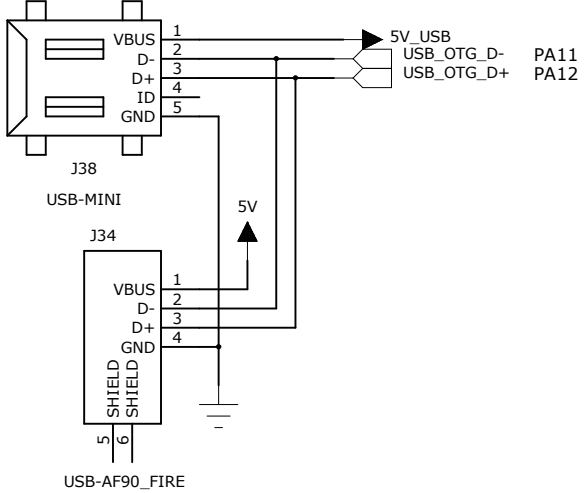
蜂鸣器



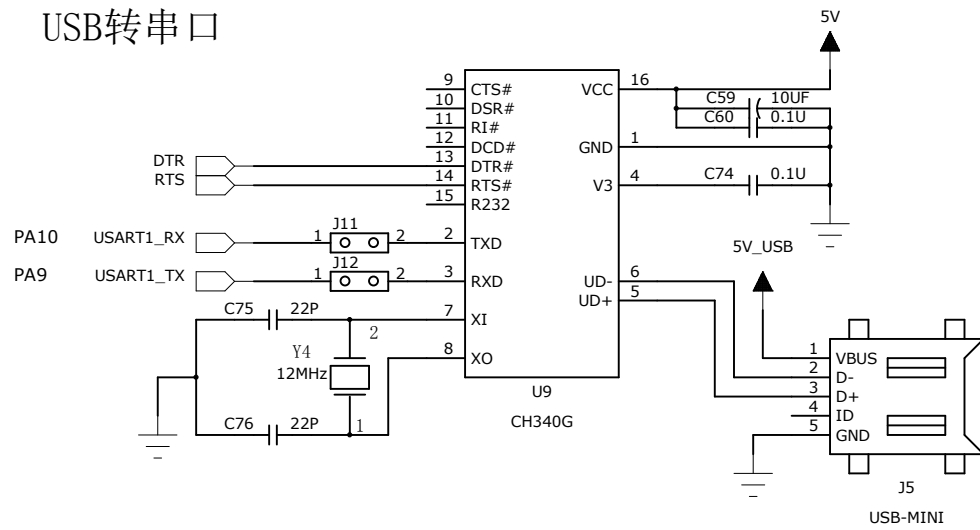
通用GPIO接口



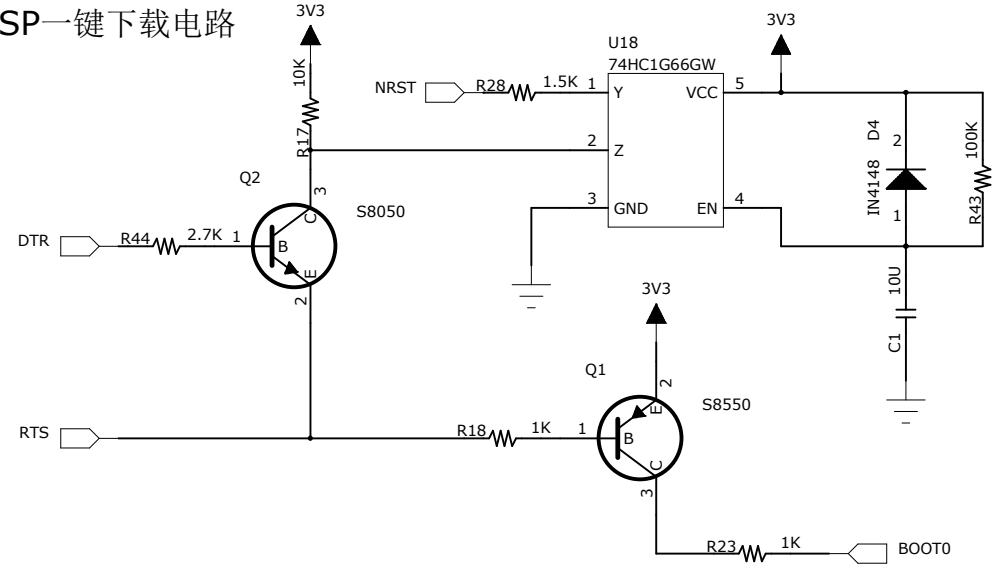
USB-OTG-HS



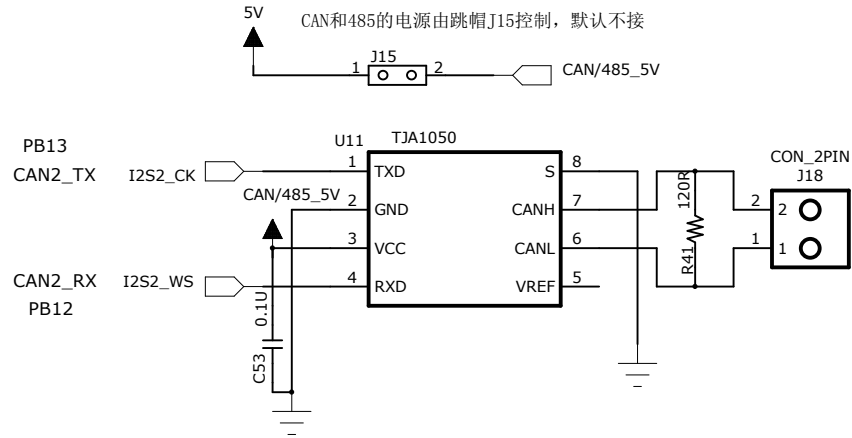
## USB转串口



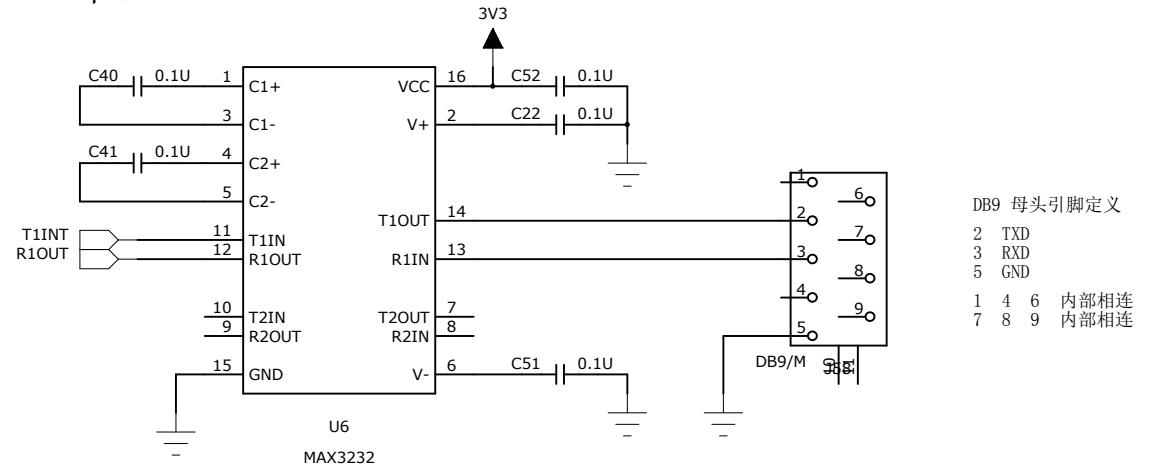
## ISP一键下载电路



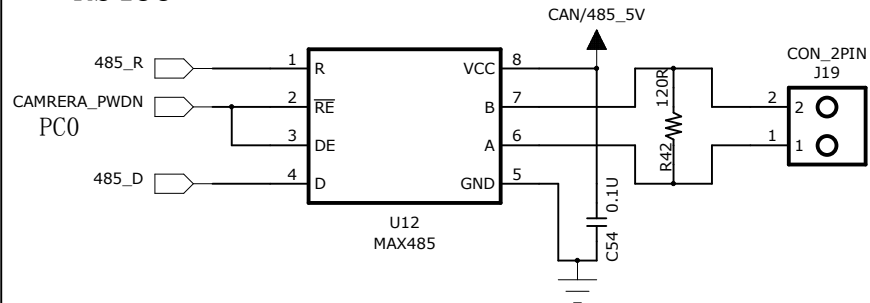
## CAN



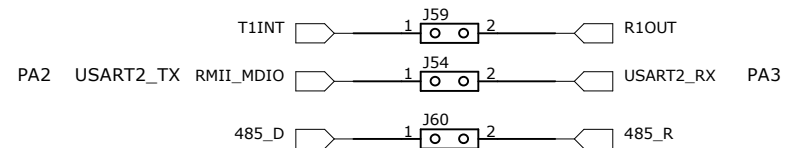
## RS232串口



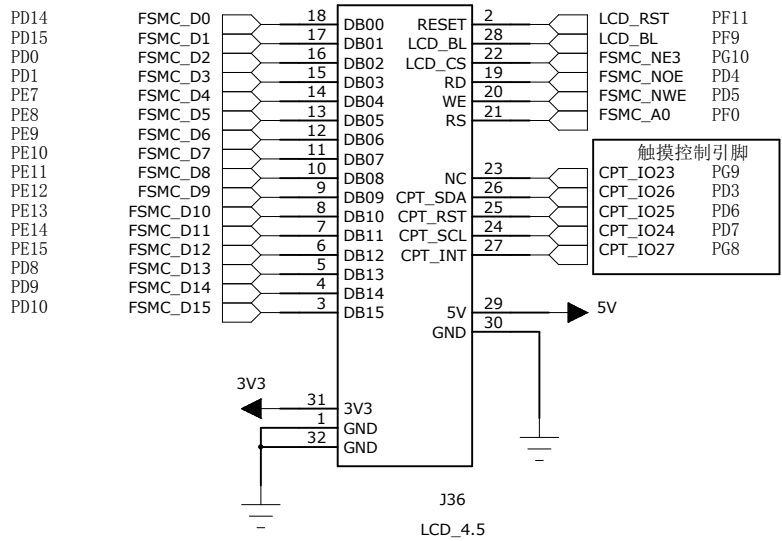
## RS485



USART2通过跳帽选择连接到232或者485  
235和485只能选其一不能同时使用

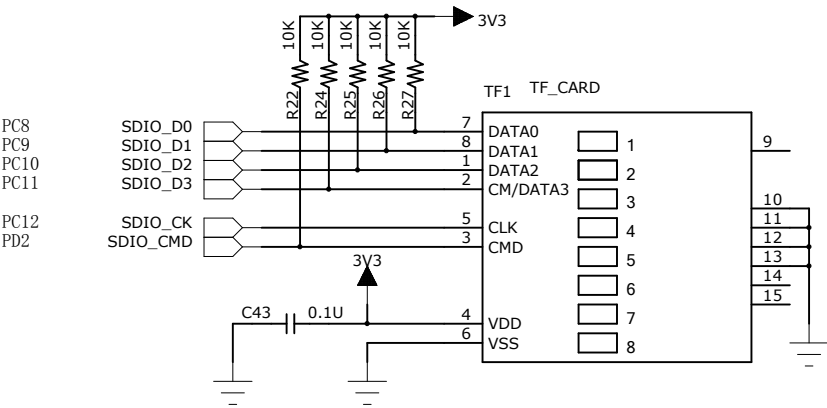


4.5寸液晶 FSMC接口



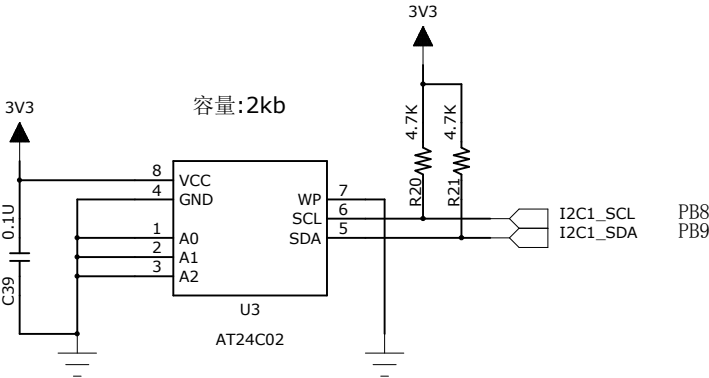
SD卡

容量:最大支持32GB外扩

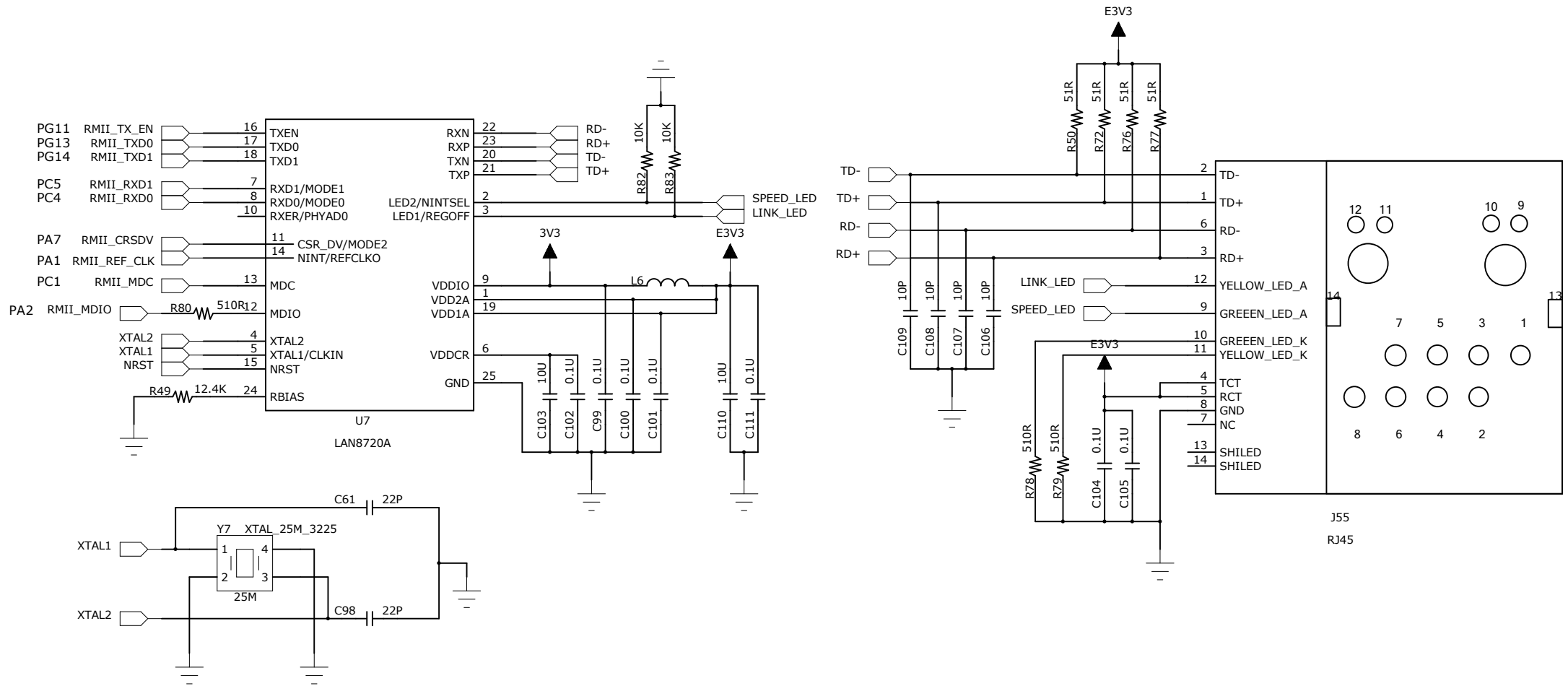


EEPROM

容量:2kb



## 网络接口



# LED

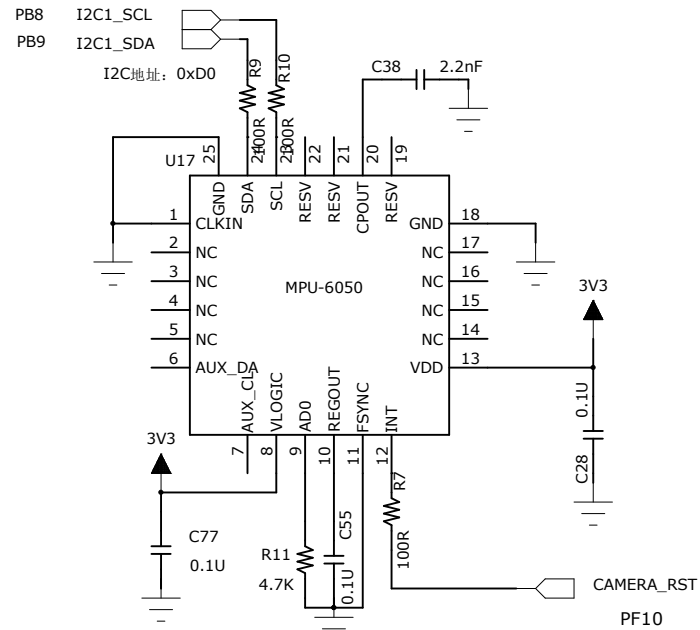


PF6 TIM10\_CH1

PF7 TIM12\_CH1

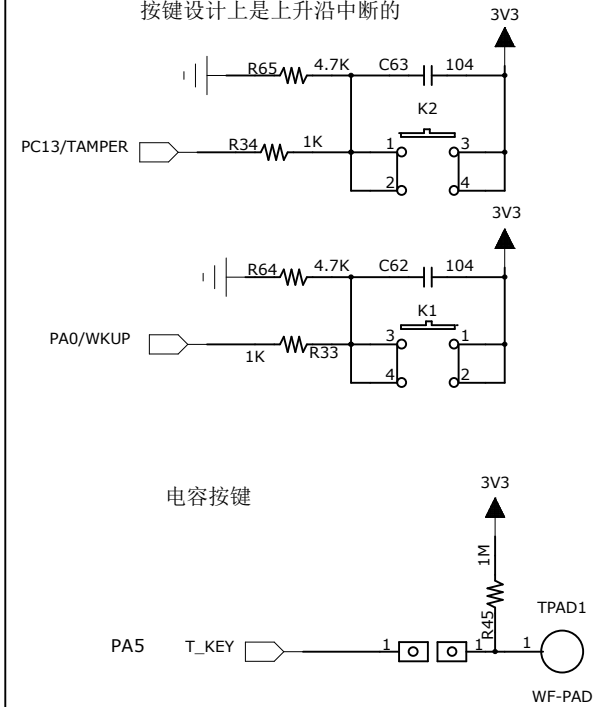
PF8 TIM13\_CH1

# 六轴传感器



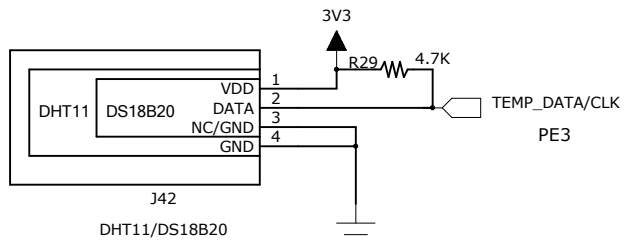
# KEY

按键设计上是上升沿中断的

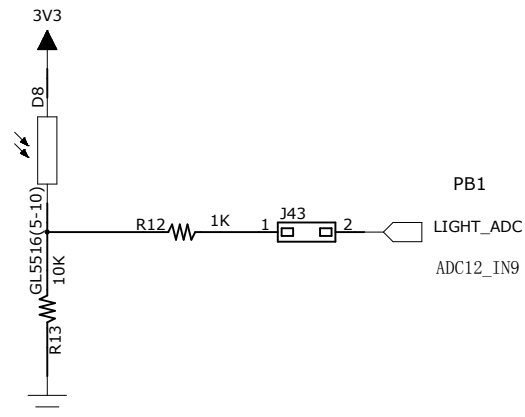


电容按键

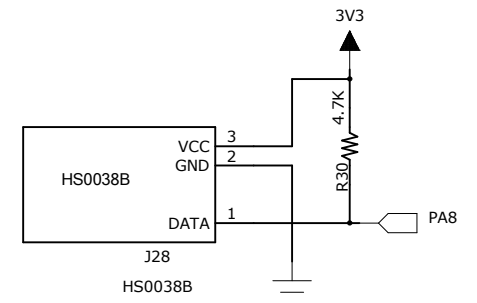
# 温湿度传感器接口



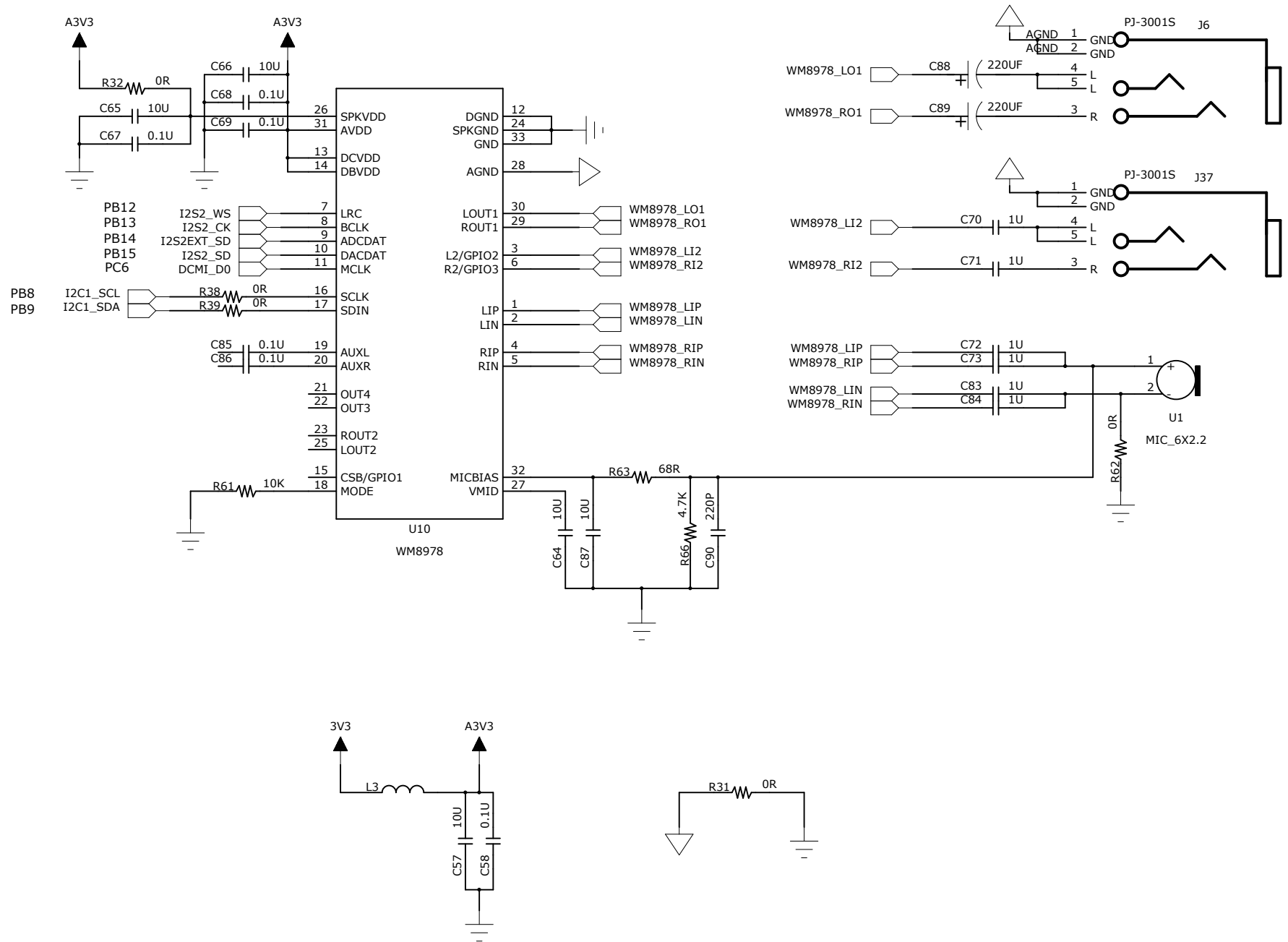
# 光照电阻



# 红外接收接口



# I2S音频DAC





# WIFI模块

