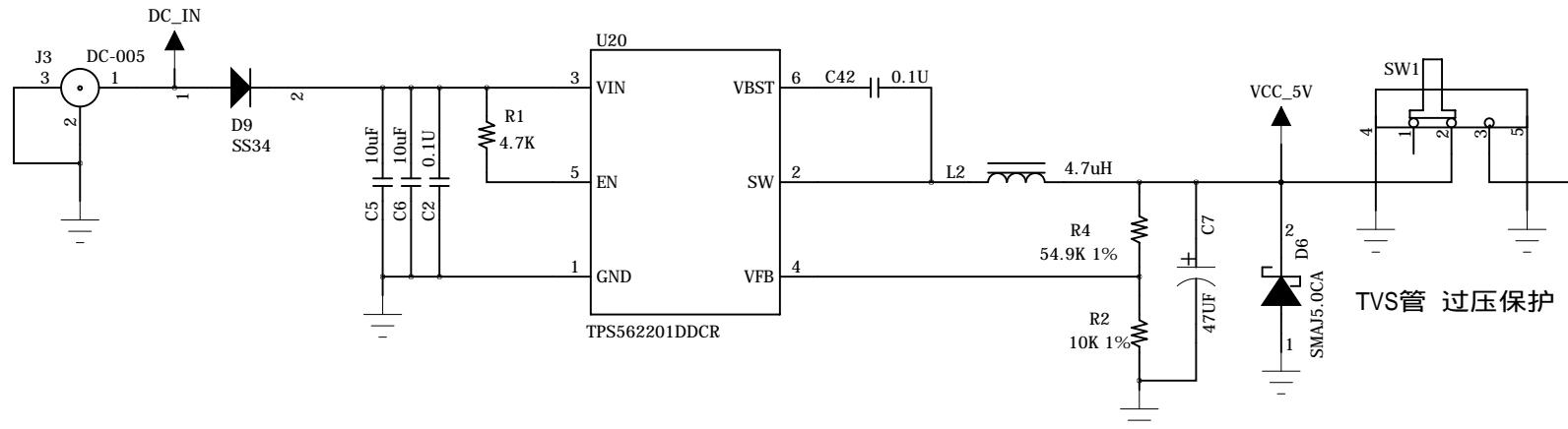


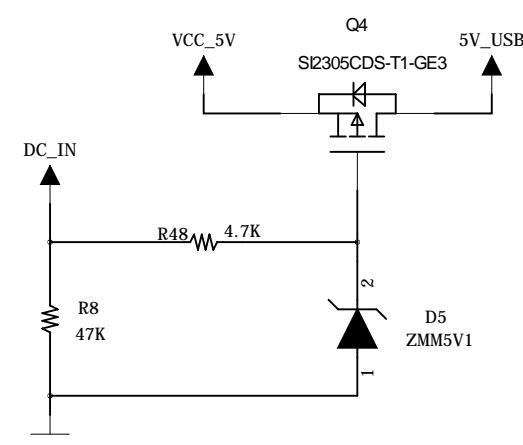
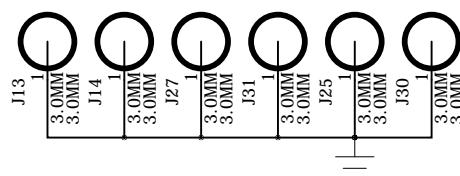
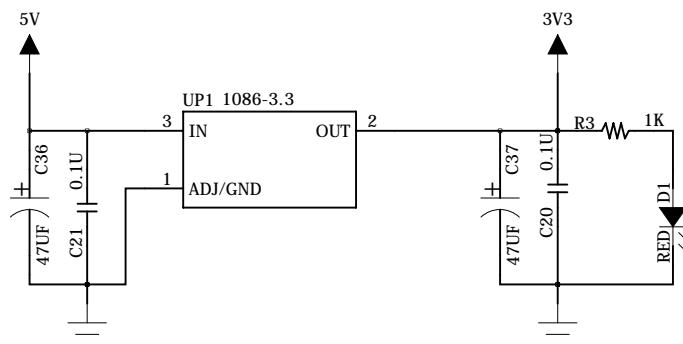
# 电源供电

## DC DC + LDO 方案

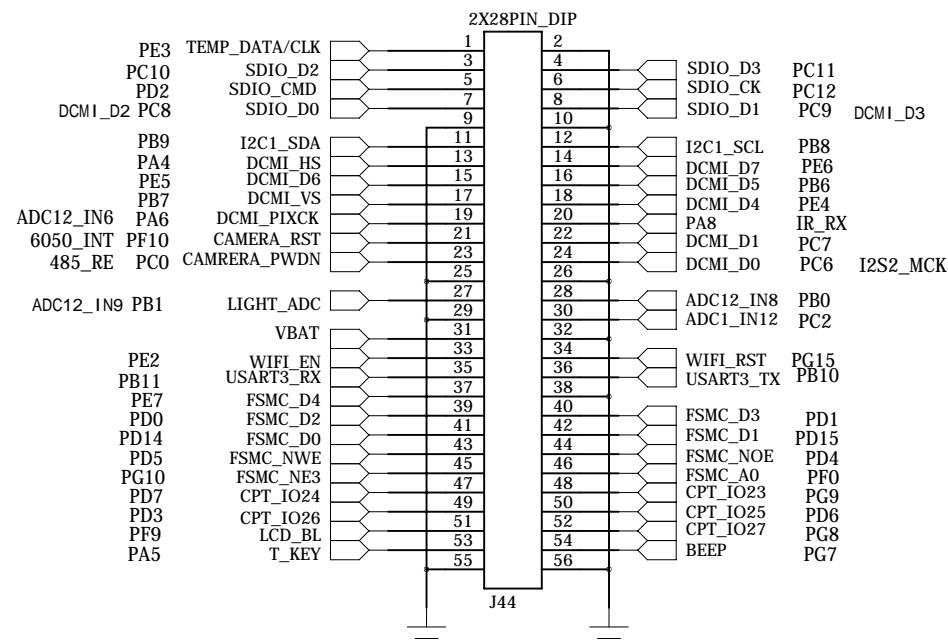
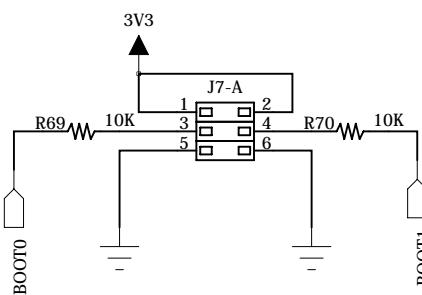
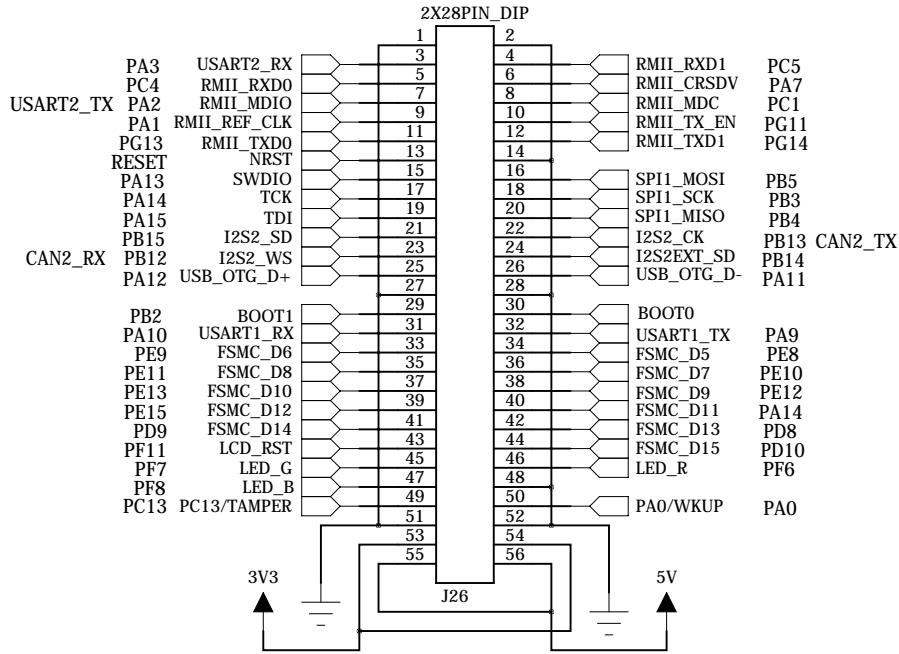
DC IN : 6V~12V



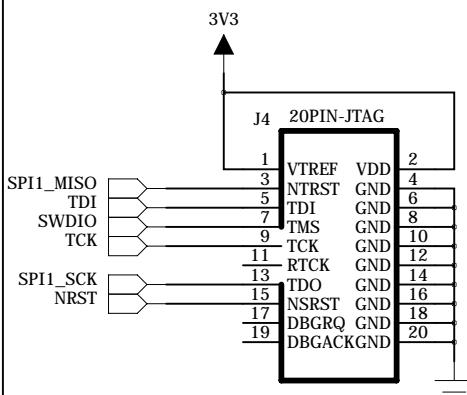
TVS管 过压保护



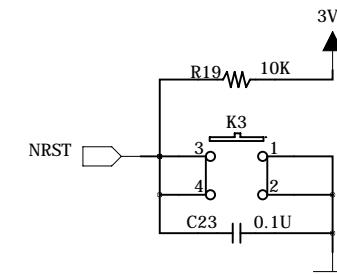
外部电源供电时断开USB供电，防止灌电流，保护电脑USB口



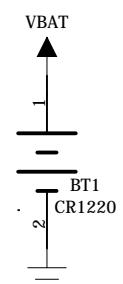
下载



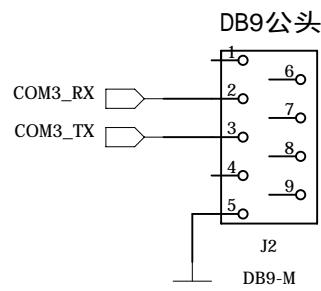
复位



RTC\_BAT

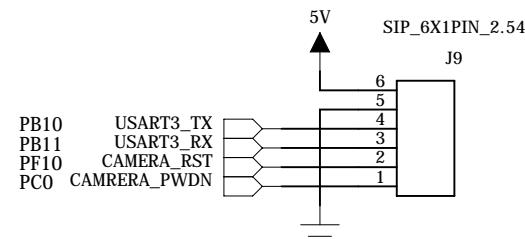


COM3

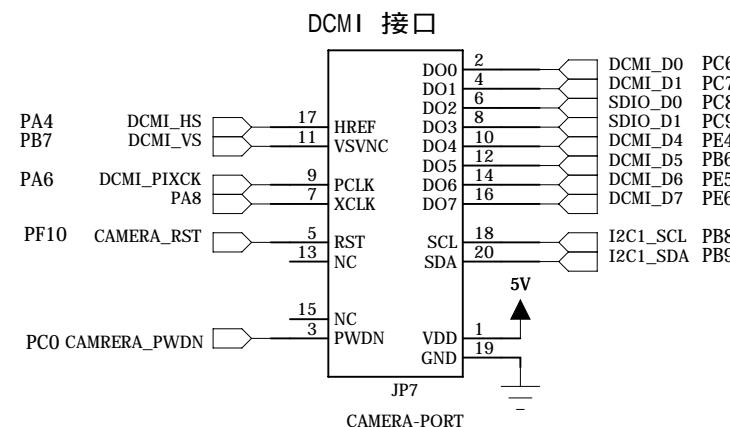


标准公头，跟PC连接需要母头——母头交叉线  
跟开发板的COM2母头相连用公头——母头直连线

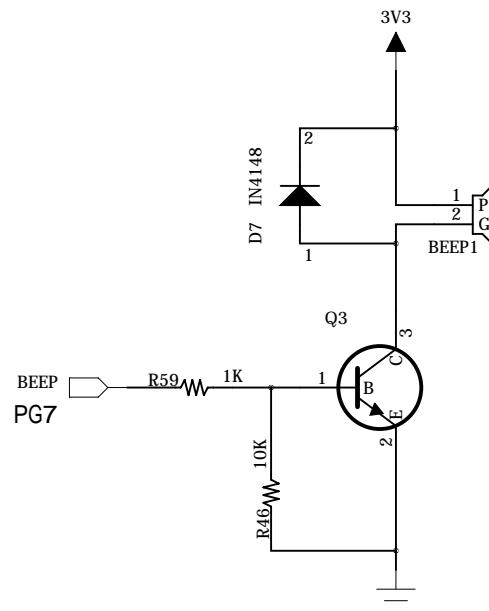
## GPS/BT接口



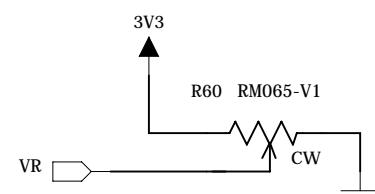
## 摄像头接口



## 蜂鸣器



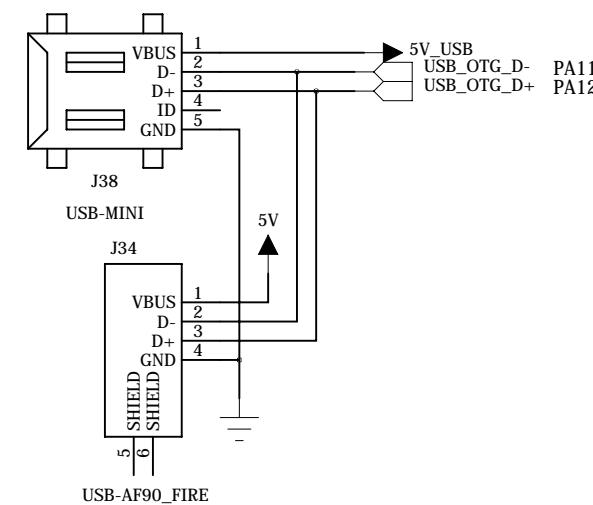
## ADC接口



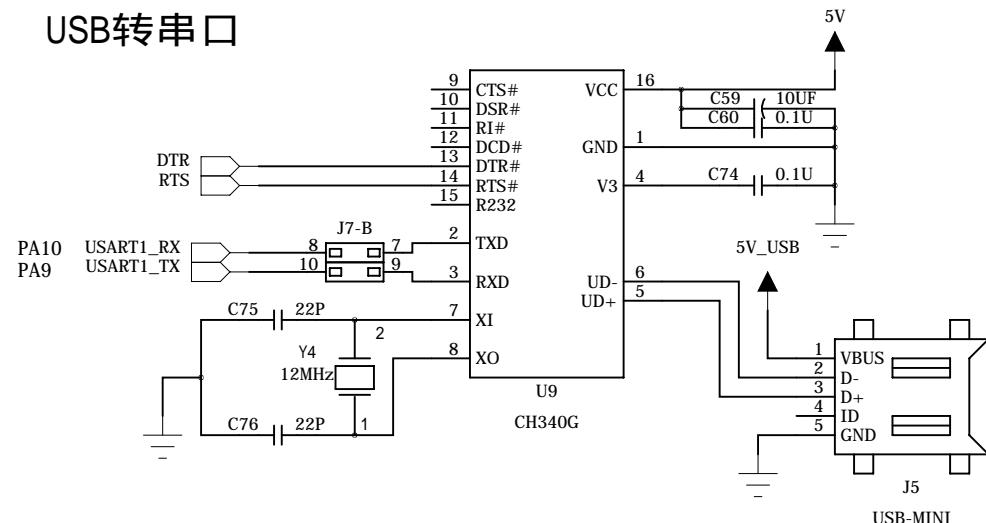
贴片滑动变阻器

J12的 7和8脚跳帽接上 PB0接到电位器

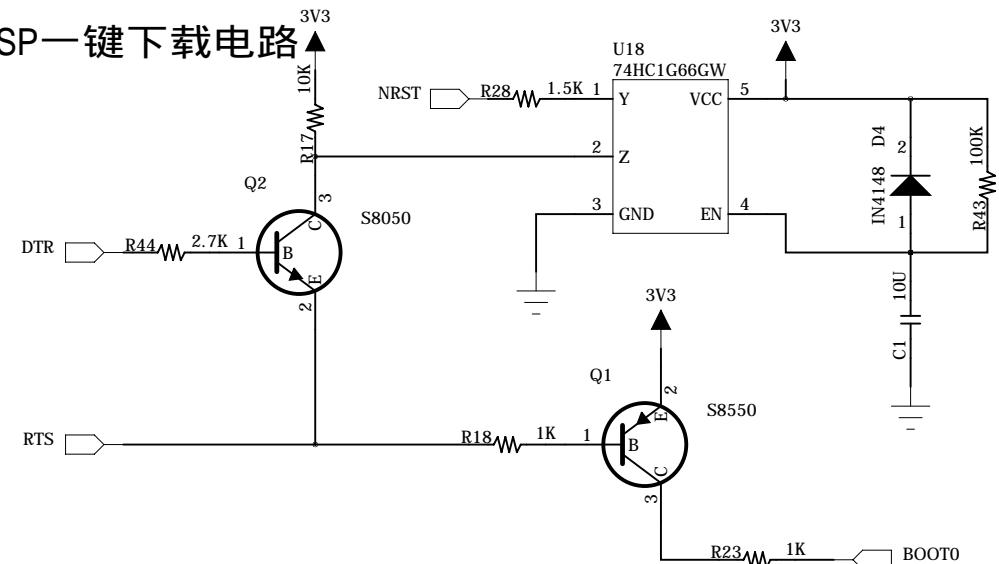
## USB-OTG-HS



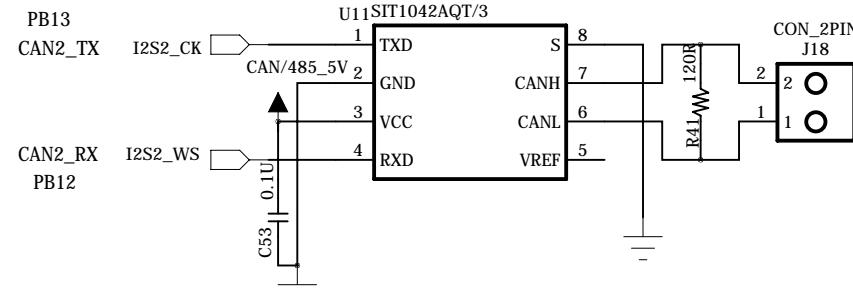
## USB转串口



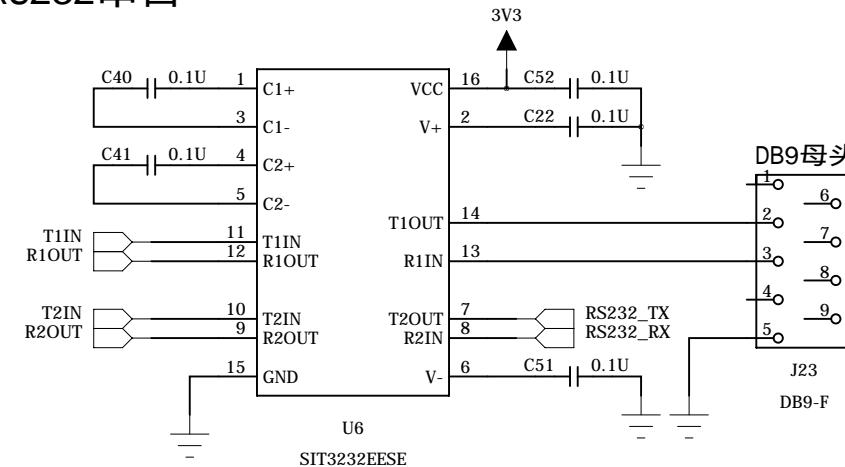
## ISP一键下载电路



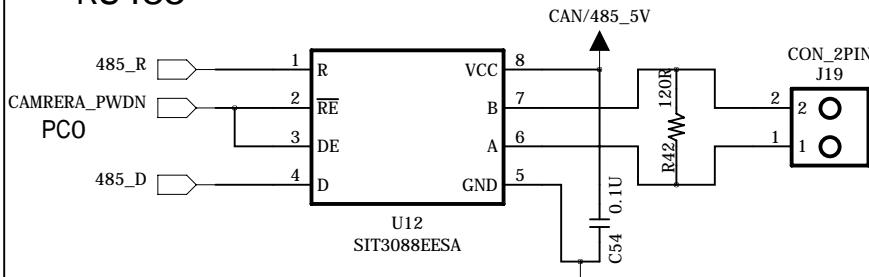
## CAN



## RS232串口



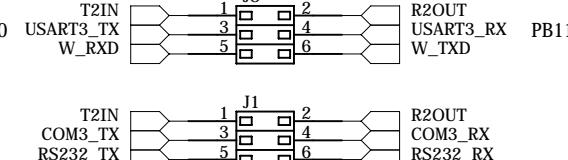
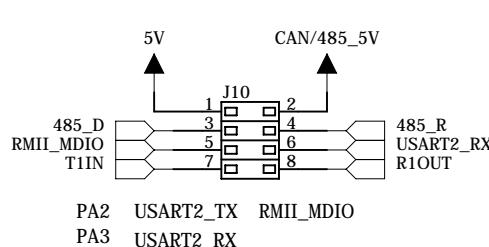
## RS485



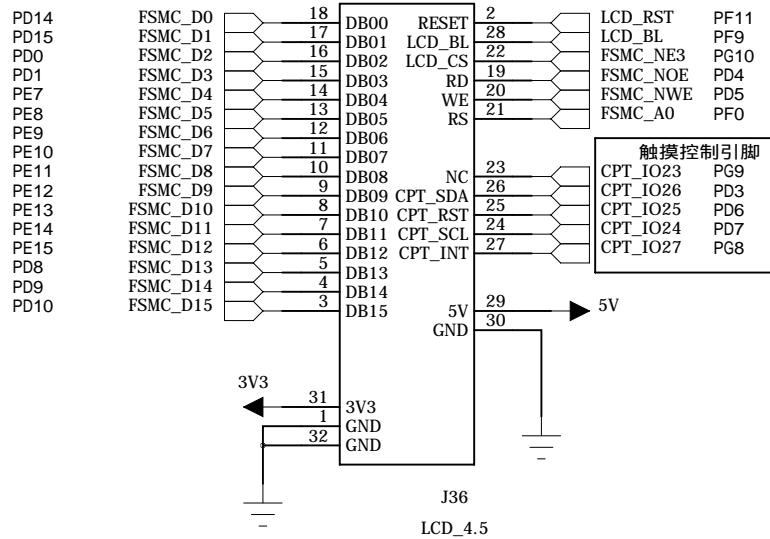
CAN和485的电源由J10 1和2脚的调帽控制，默认不接  
USART2通过跳帽选择连接到232或者485  
235和485只能选其一不能同时使用

PA2 USART2\_TX RMII\_MDOI  
PA3 USART2\_RX

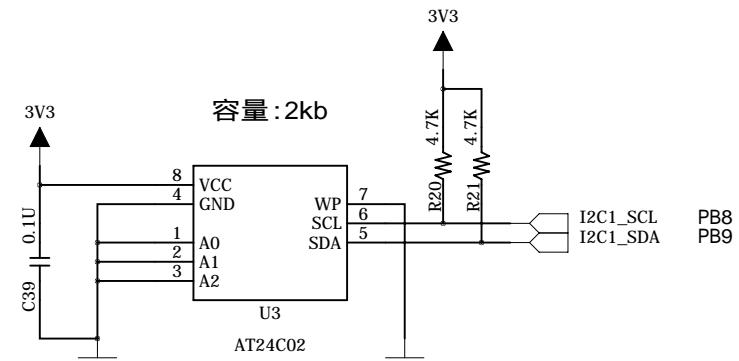
PB10 和 PB11 用于WIFI和COM3，但不能同时使用  
默认接到WIFI



## 4.5寸液晶 FSMC接口

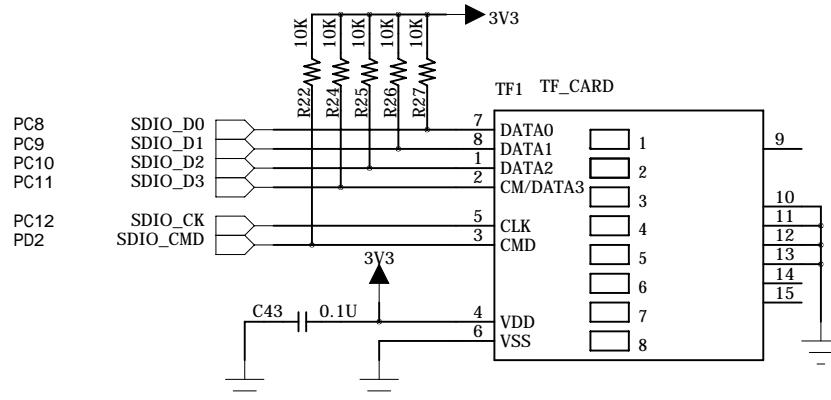


## EEPROM

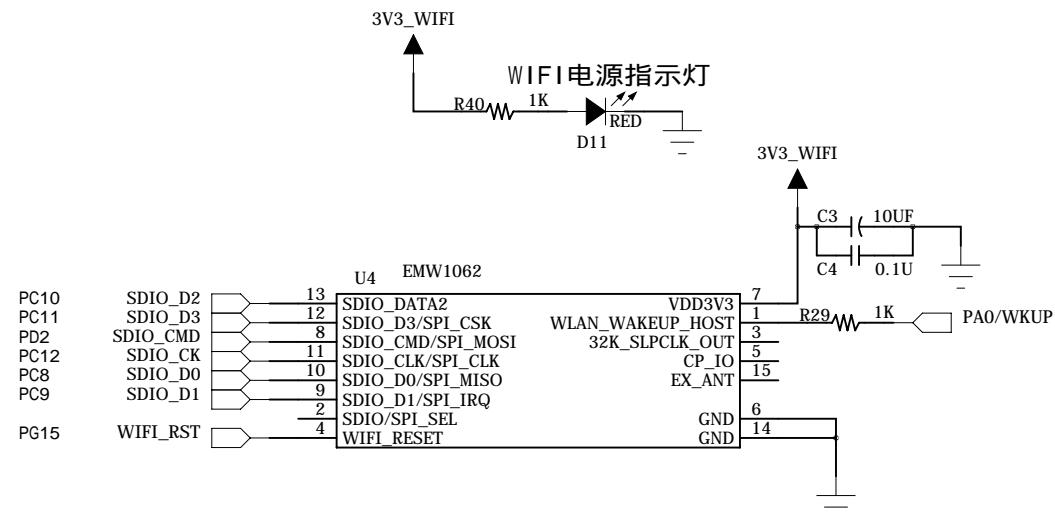


## SD卡

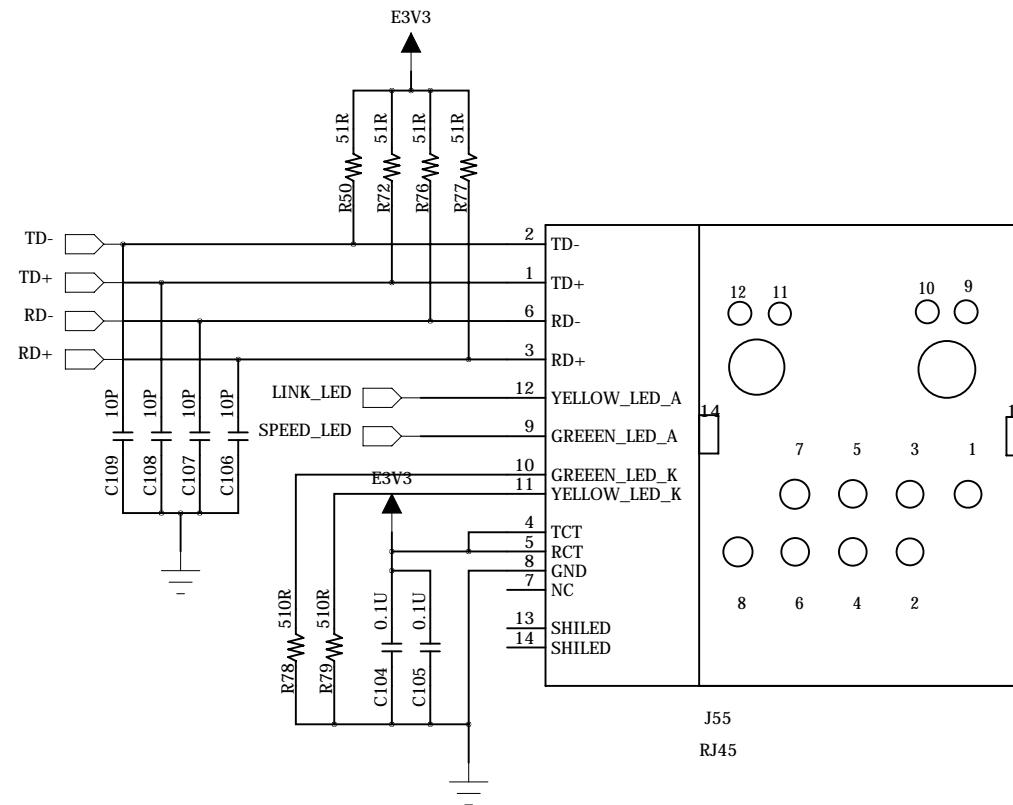
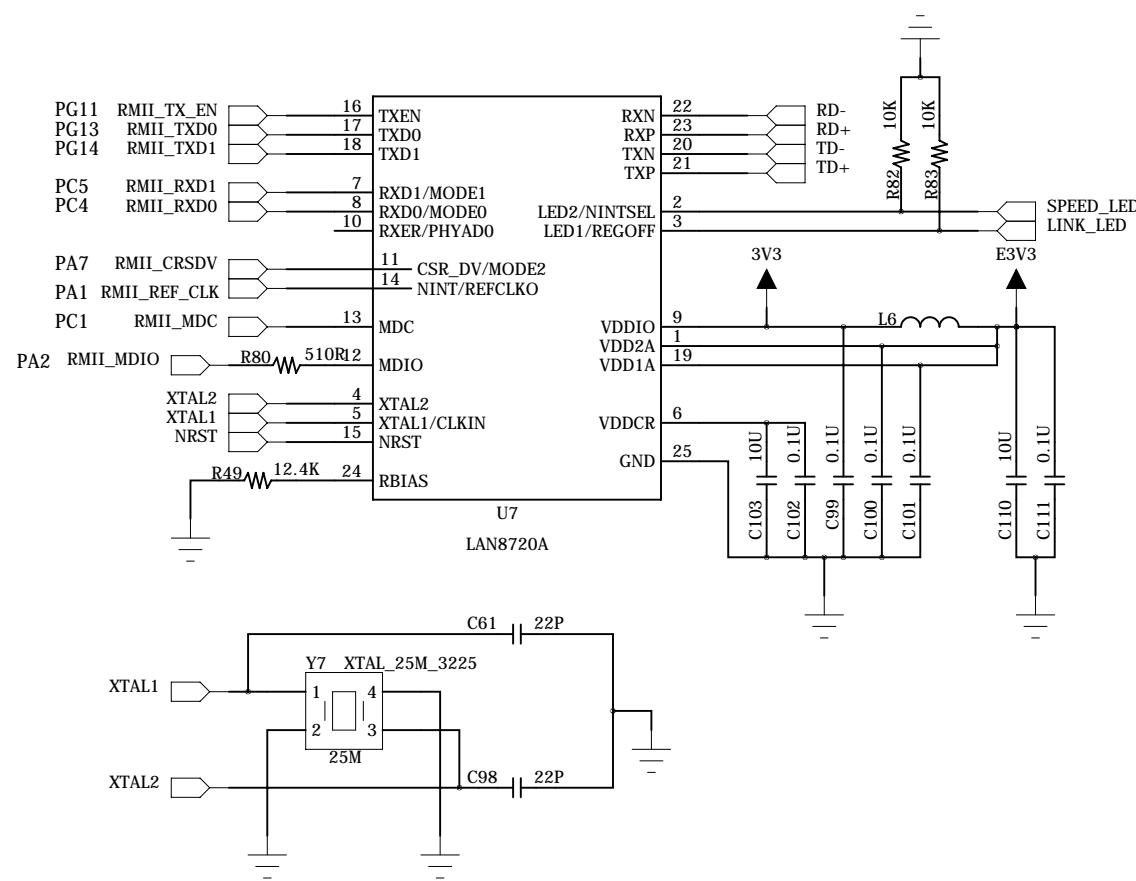
容量:最大支持32GB外扩



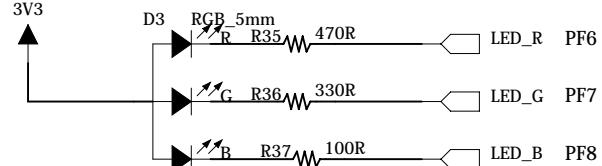
## SDIO WIFI



## 网络接口



# LED

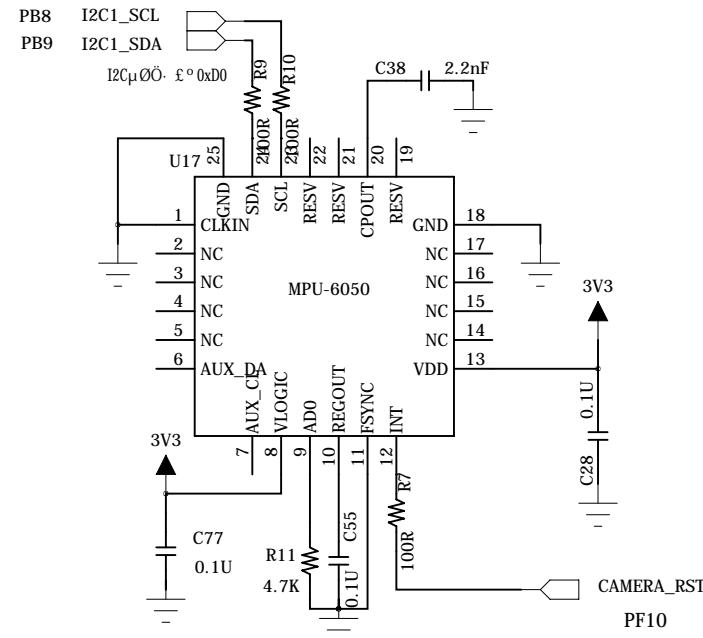


PF6 TIM10\_CH1

PF7 TIM12\_CH1

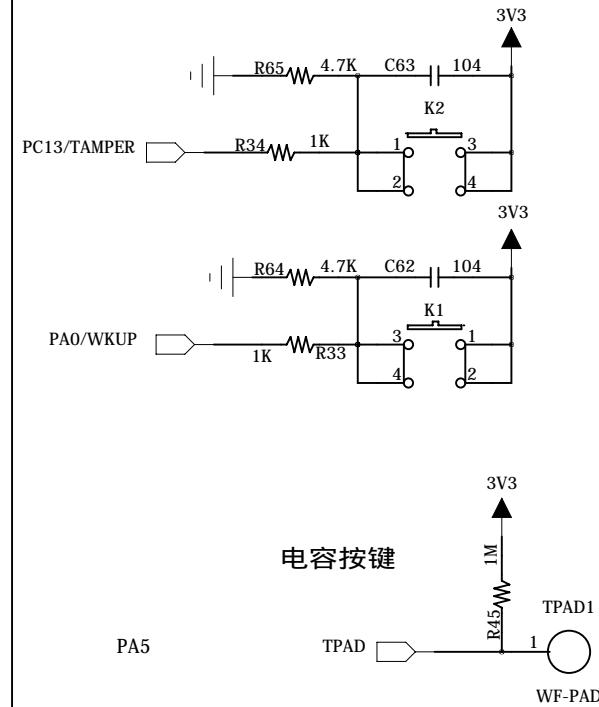
PF8 TIM13\_CH1

# 六轴传感器



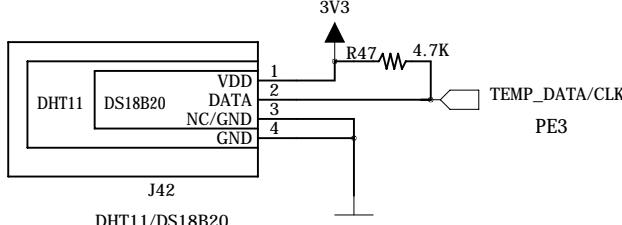
# KEY

按键设计上是上升沿中断的

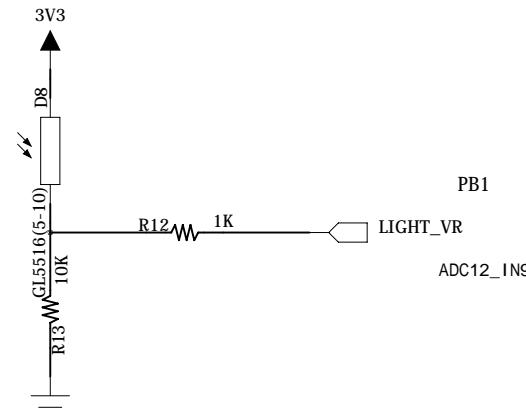


电容按键

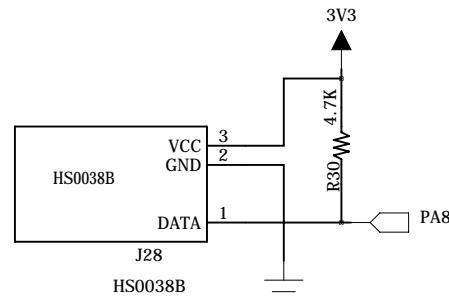
# 温湿度传感器接口



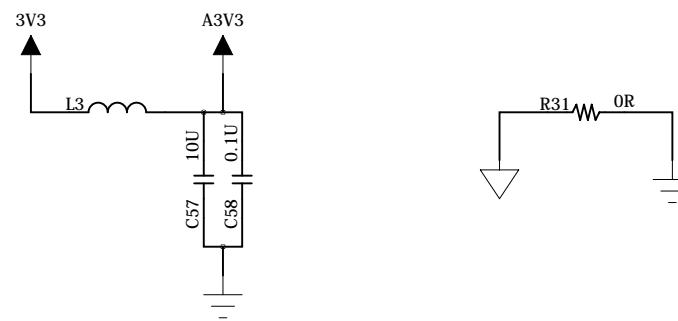
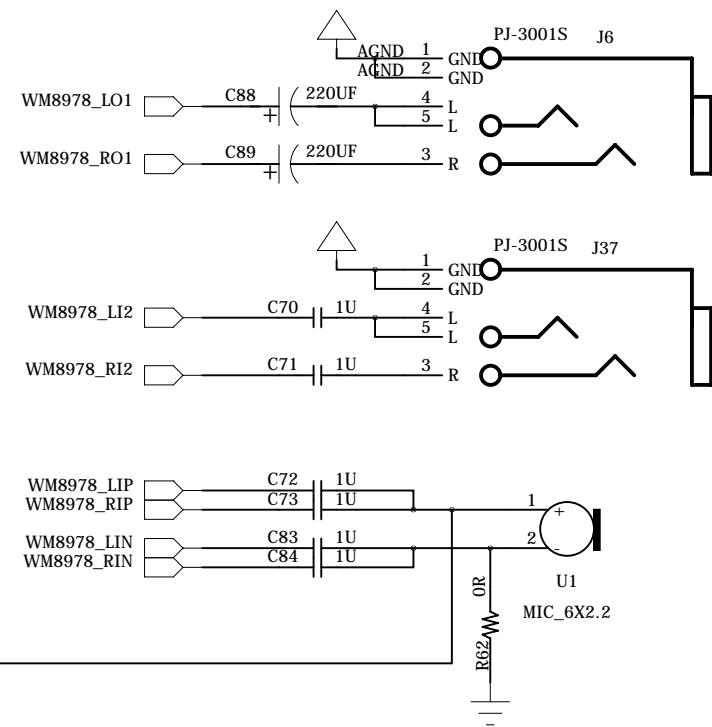
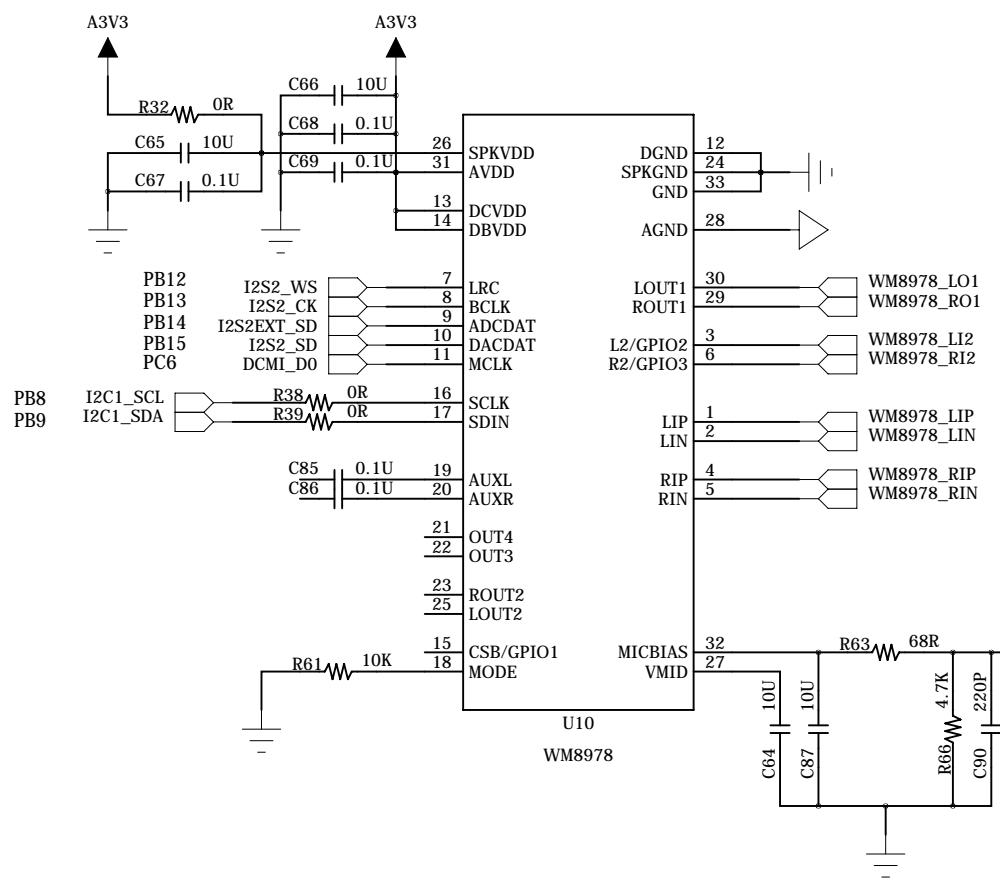
# 光照电阻



# 红外接收接口



# I2S音频DAC



# 串口WIFI模块

