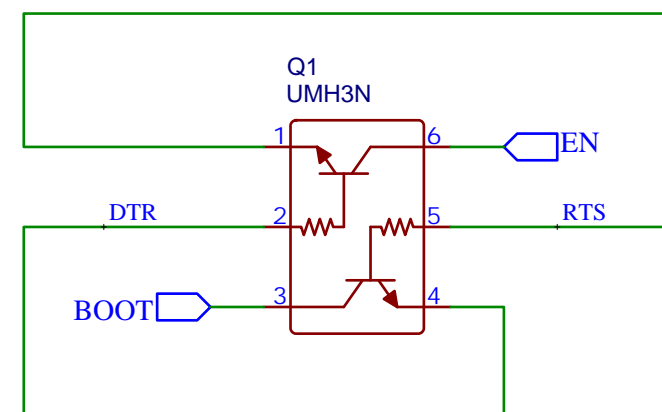


CH340C使用LDO，而不使用5V直接供电
是为了使CH340与ESP32的3.3V通信电平一致。

CH340如直接使用USB-5V供电，会使通信电平为5V，
导致电平不兼容和电流倒灌

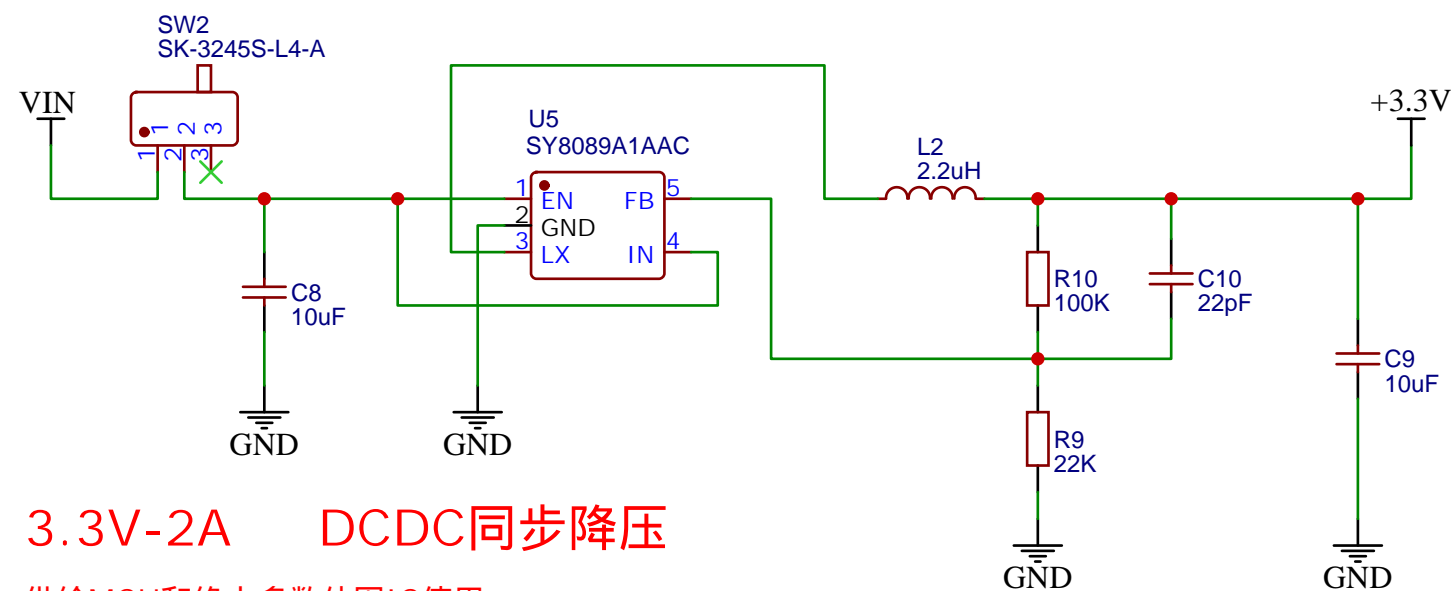
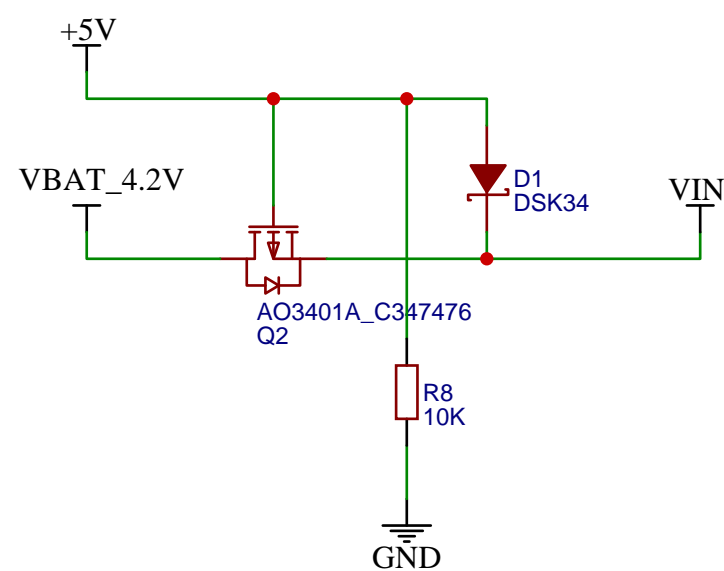
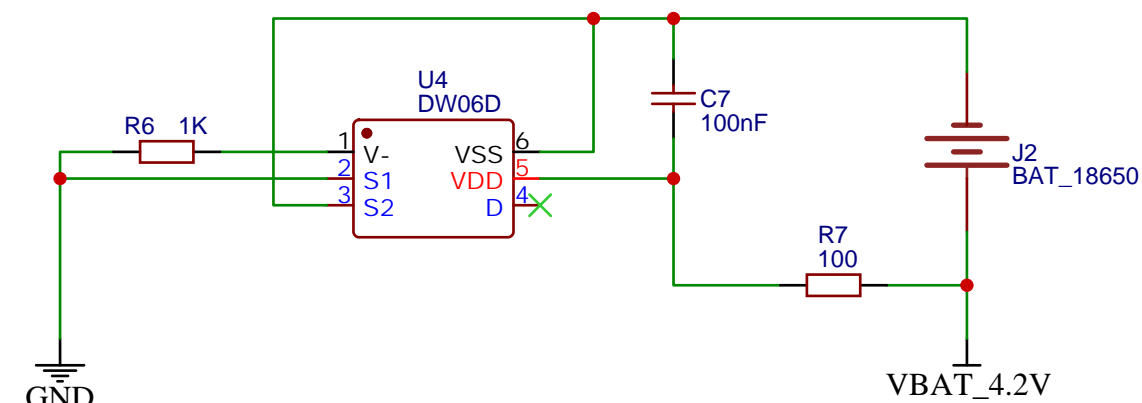
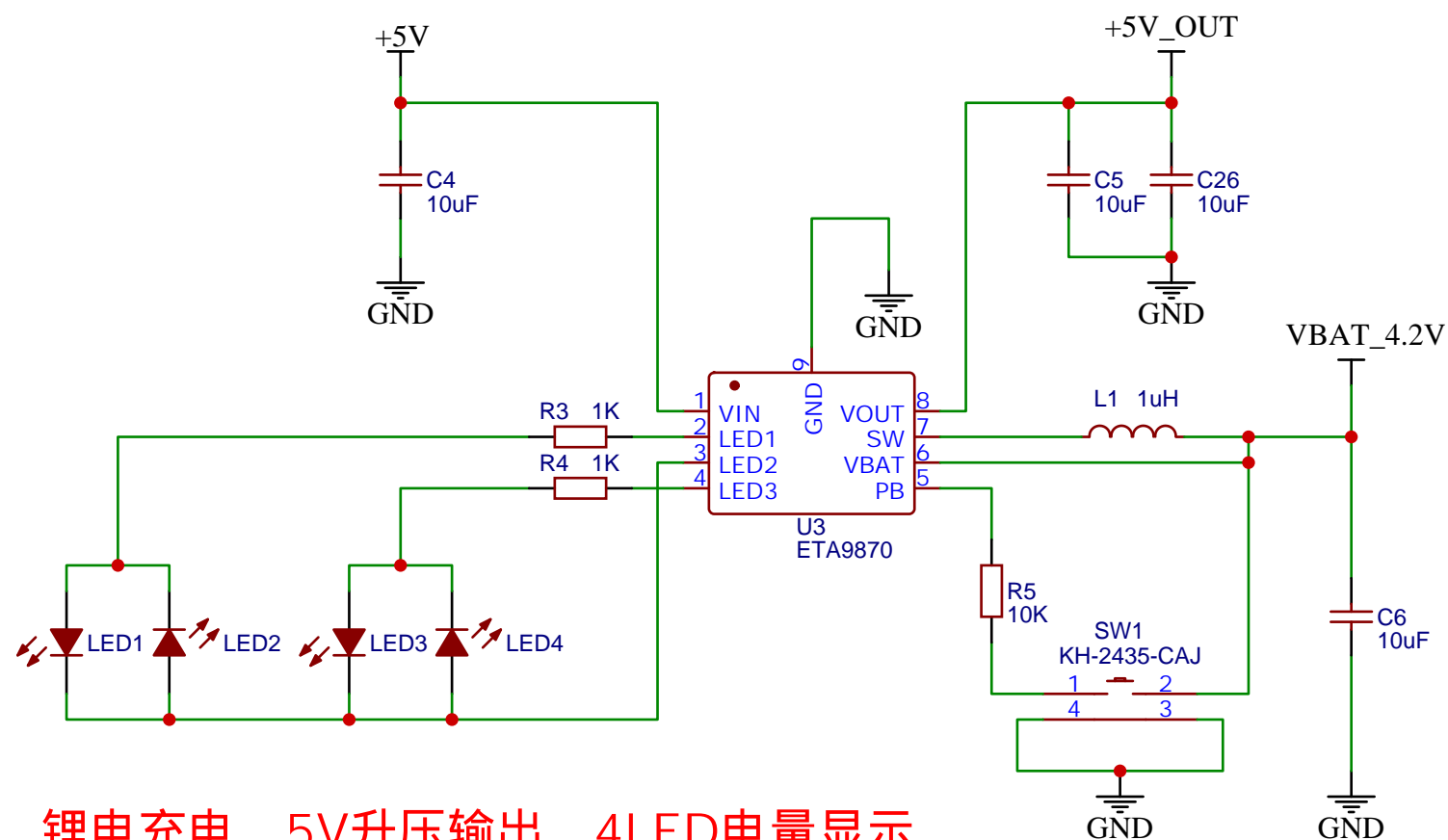


CH340自动流控下载电路



配套例程源码 Github. 点星星不迷路

TITLE: 01_USB_DOWNLOAD		REV: 1.0
立创EDA	Company: Your Company	Sheet: 1/1
	Date: 2021-09-21	Drawn By: mazhiliang



USB/锂电-电源自动切换

SW2电源开关开通并且锂电有电的情况下
3.3V电压域为UPS（不间断电源）

TITLE:

02_POWER

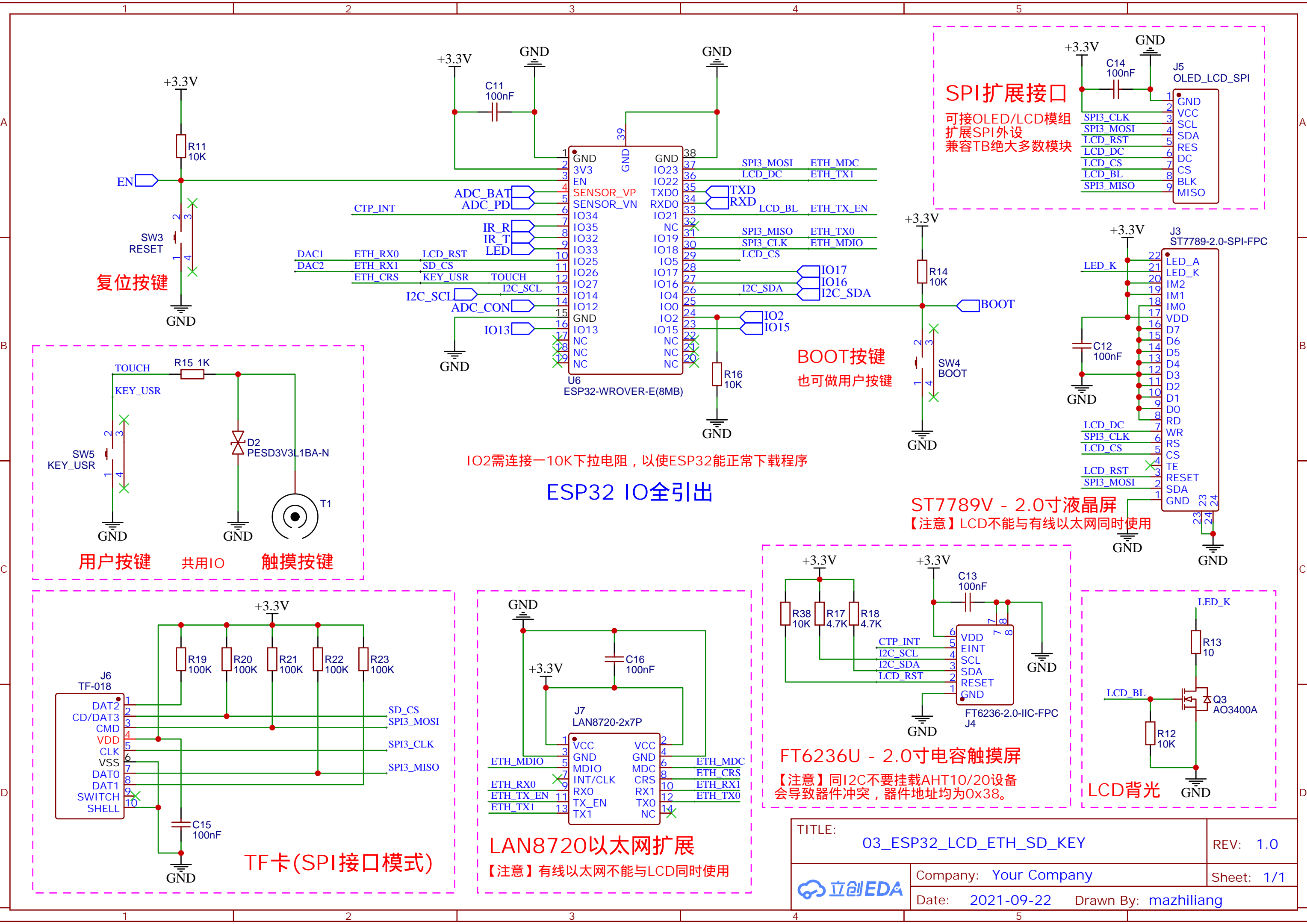
REV: 1.0



Company: Your Company

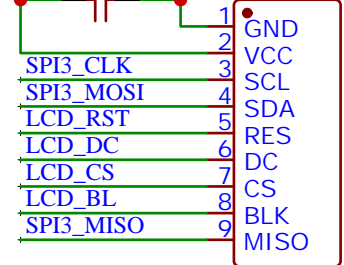
Sheet: 1/1

Date: 2021-09-21 Drawn By: mazhiliang



SPI扩展接口

可接OLED/LCD模组
扩展SPI外设
兼容TB绝大多数模块



BOOT按键

也可做用户按键

ESP32 IO全引出

IO2需连接一10K下拉电阻，以使ESP32能正常下载程序

ST7789V - 2.0寸液晶屏

【注意】LCD不能与有线以太网同时使用

FT6236U - 2.0寸电容触摸屏

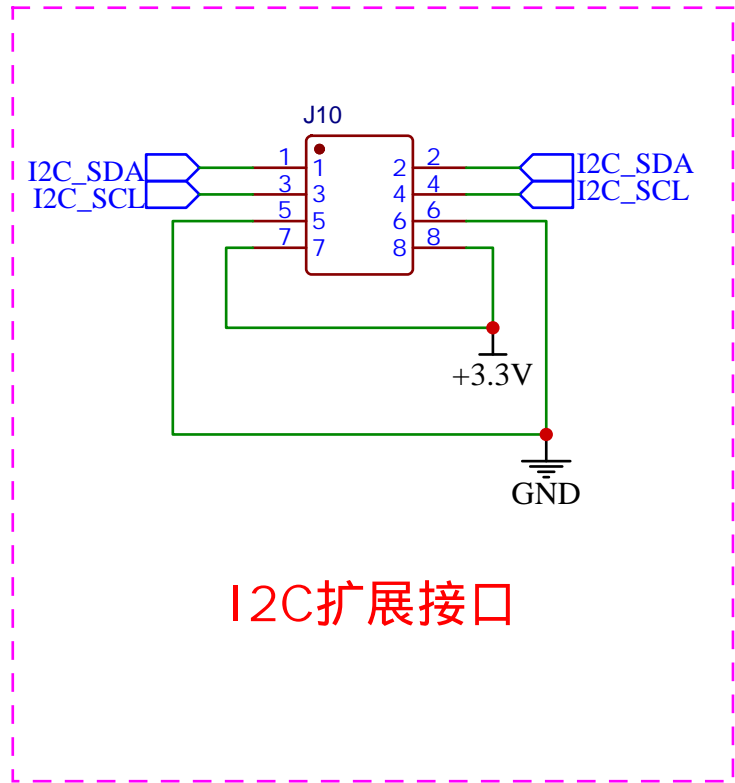
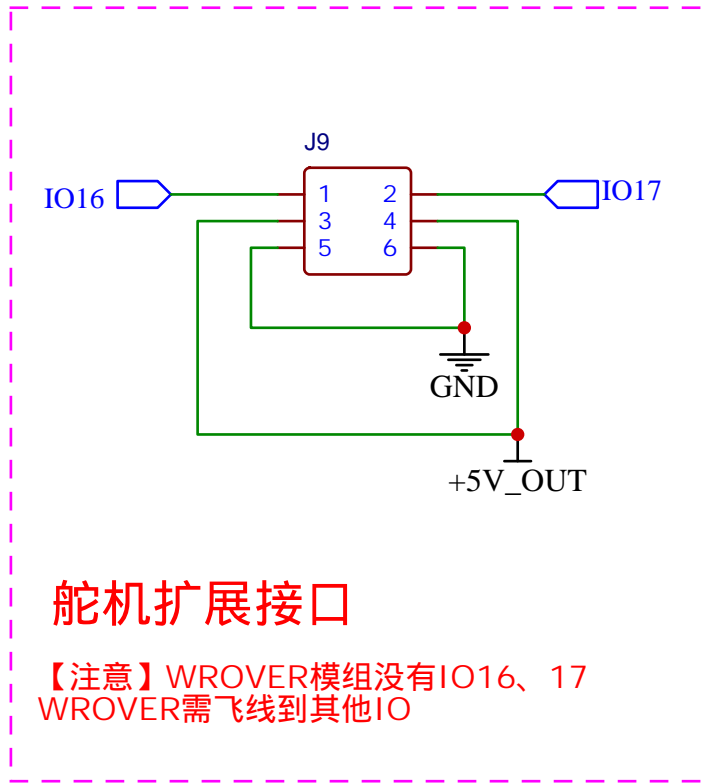
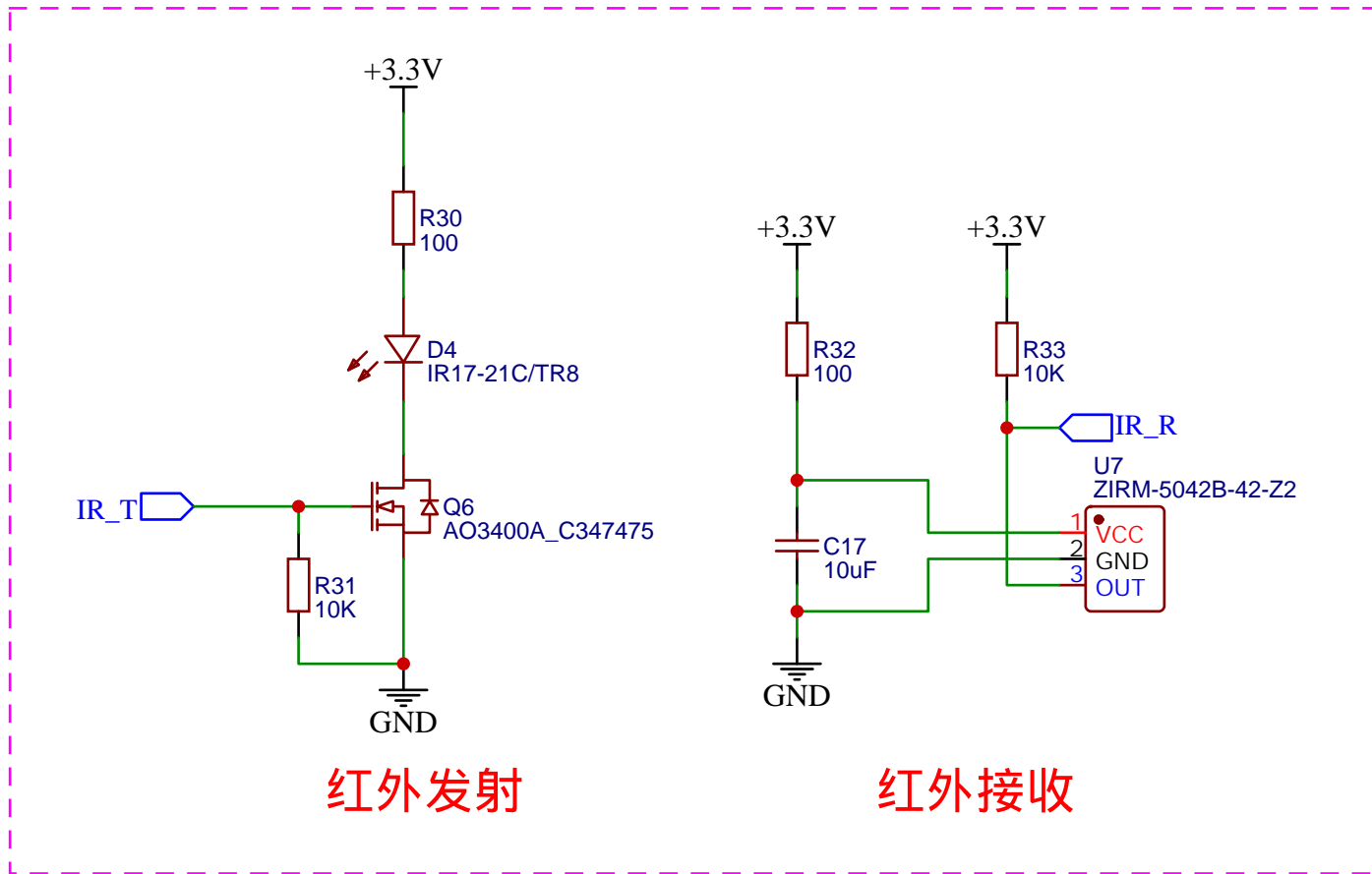
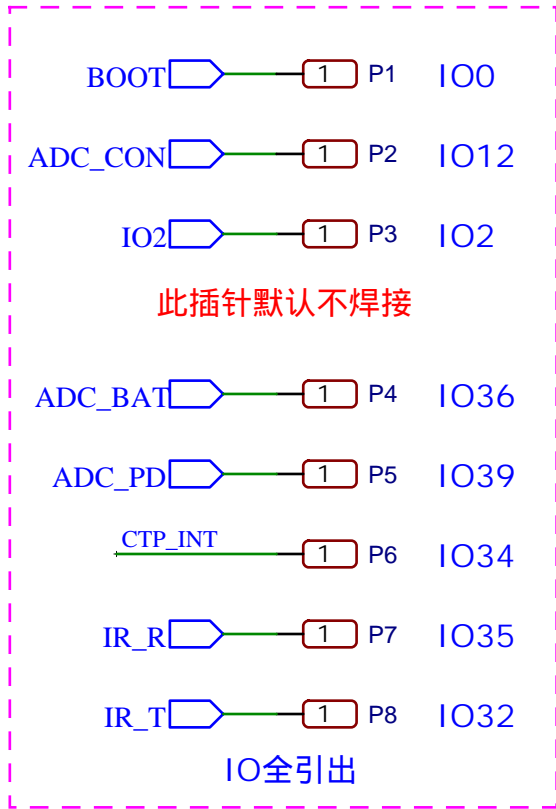
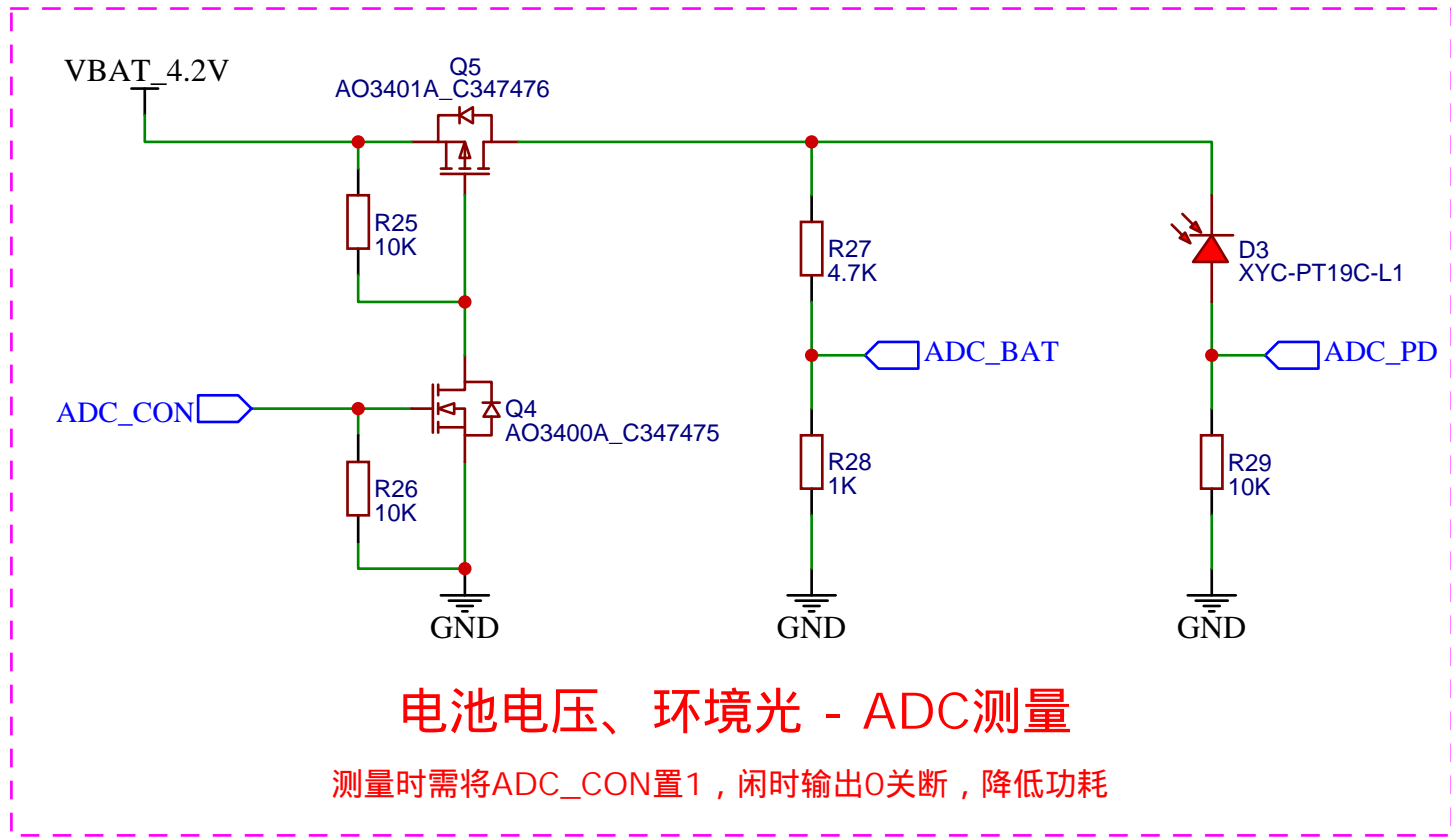
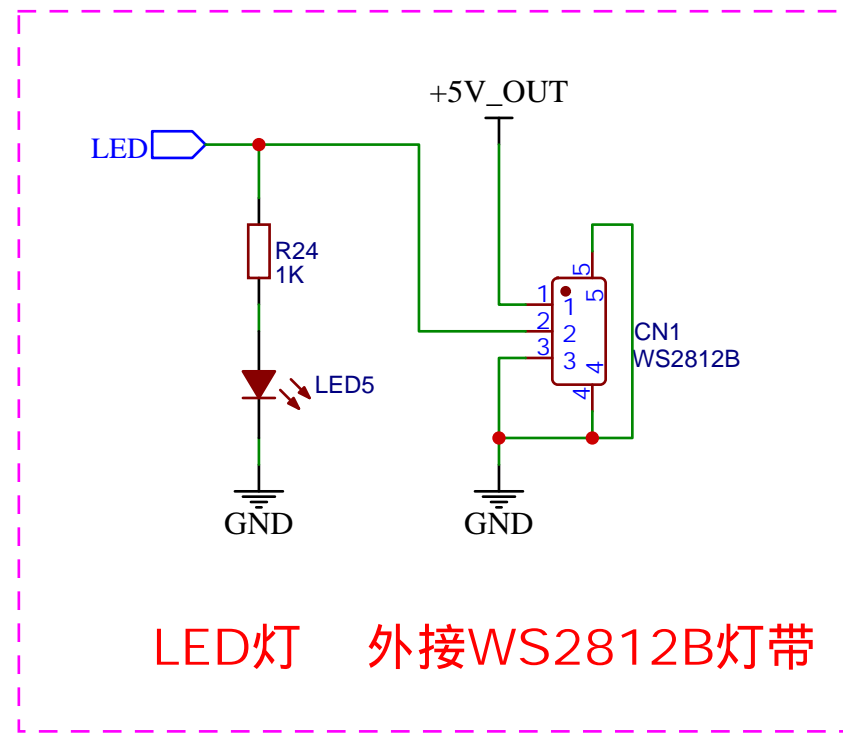
【注意】同I2C不要挂载AHT10/20设备
会导致器件冲突，器件地址均为0x38。

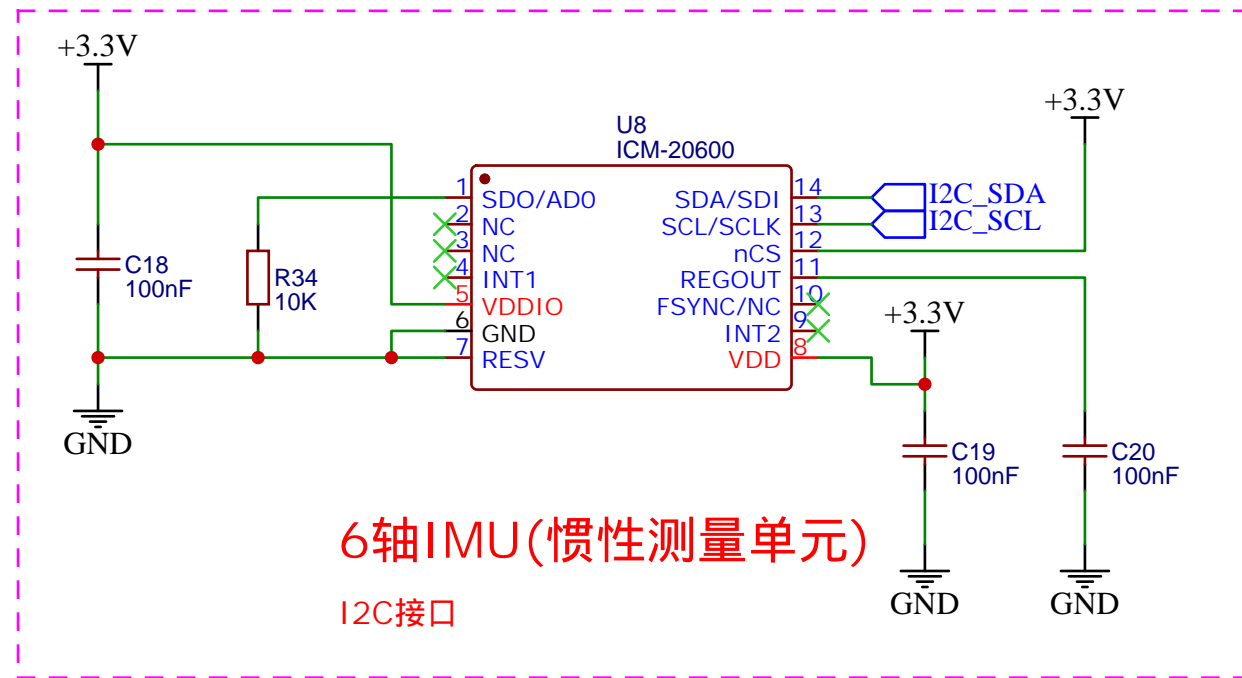
TF卡(SPI接口模式)

LAN8720以太网扩展

【注意】有线以太网不能与LCD同时使用

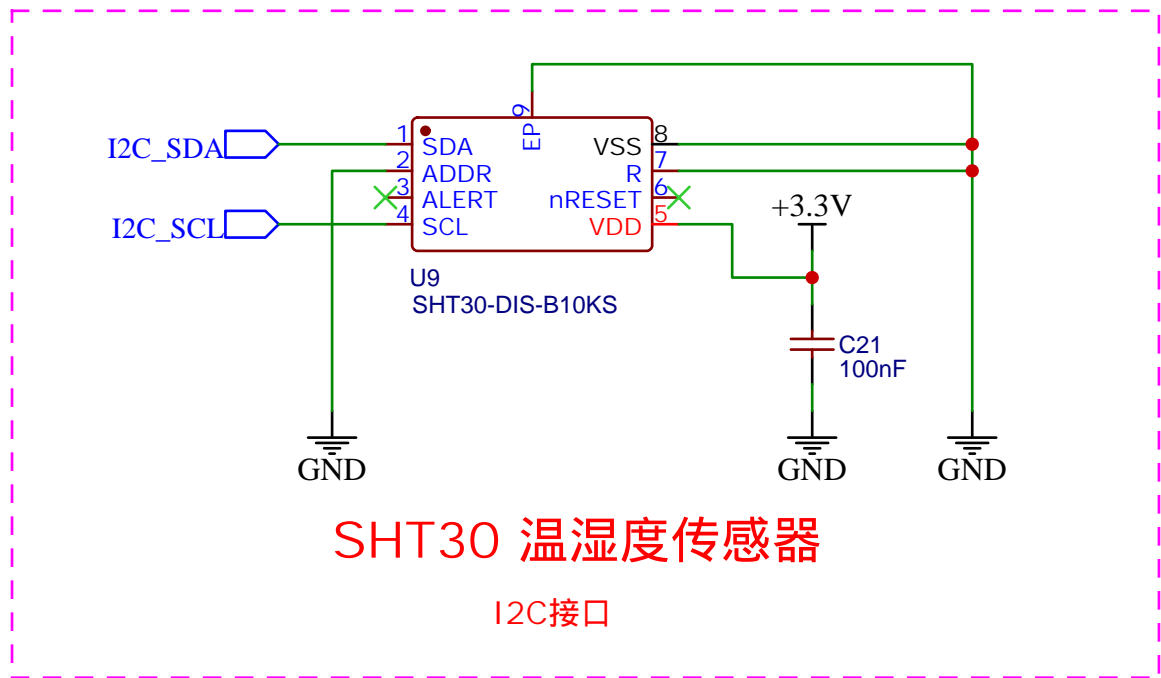
TITLE: 03_ESP32_LCD_ETH_SD_KEY		REV: 1.0
立创EDA	Company: Your Company	Sheet: 1/1
	Date: 2021-09-22	Drawn By: mazhiliang





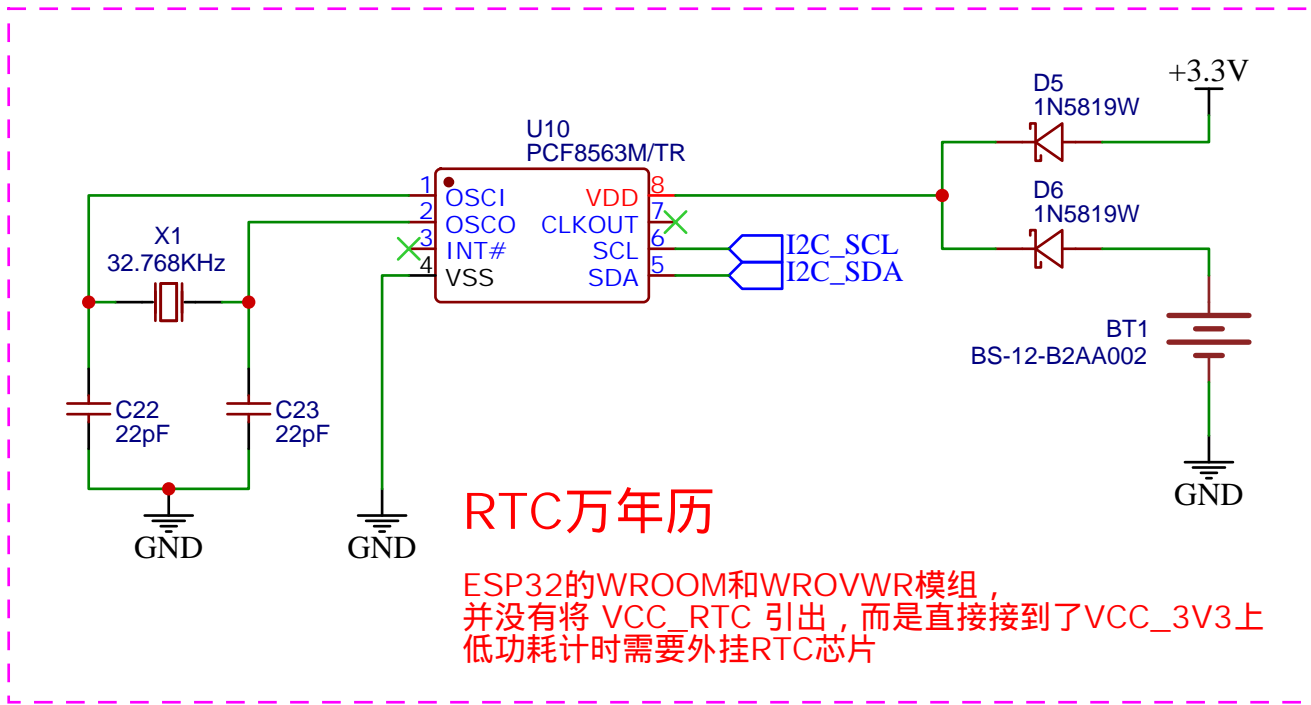
6轴IMU(惯性测量单元)

I2C接口



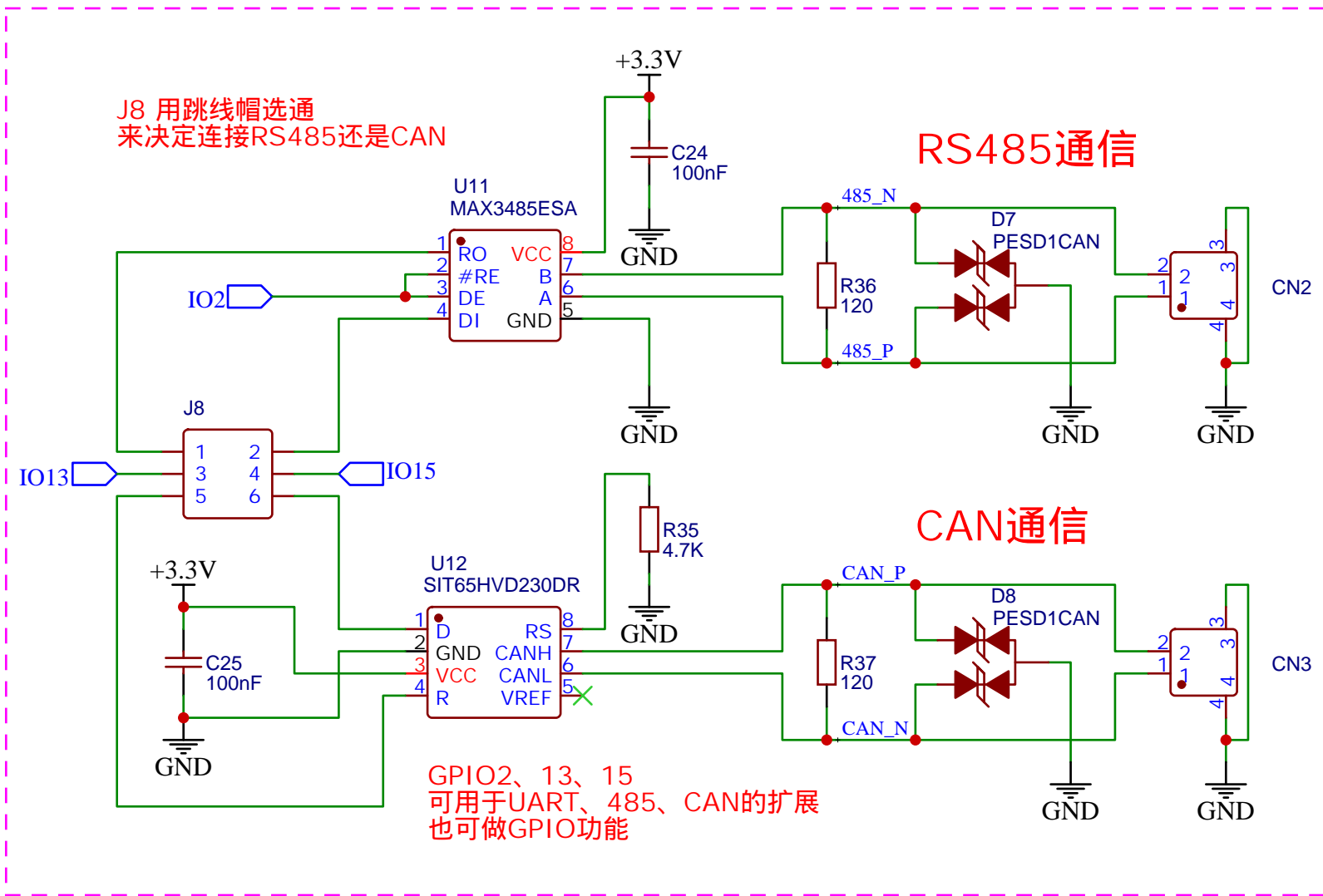
SHT30 温湿度传感器

I2C接口



RTC万年历

ESP32的WROOM和WROVWR模组，并没有将 VCC_RTC 引出，而是直接接到了VCC_3V3上
低功耗计时需要外挂RTC芯片



J8 用跳线帽选通
来决定连接RS485还是CAN

RS485通信

CAN通信

GPIO2、13、15
可用于UART、485、CAN的扩展
也可做GPIO功能

板框四周M3固定孔

- H1 MECH_HOLE_M3
- H2 MECH_HOLE_M3
- H3 MECH_HOLE_M3
- H4 MECH_HOLE_M3

电容屏固定位置

- H5 MECH_HOLE_ST7789_CTP

TITLE:

05_I2C_RTC_485_CAN

REV: 1.0



Company: Your Company

Sheet: 1/1

Date: 2021-09-24 Drawn By: mazhiliang