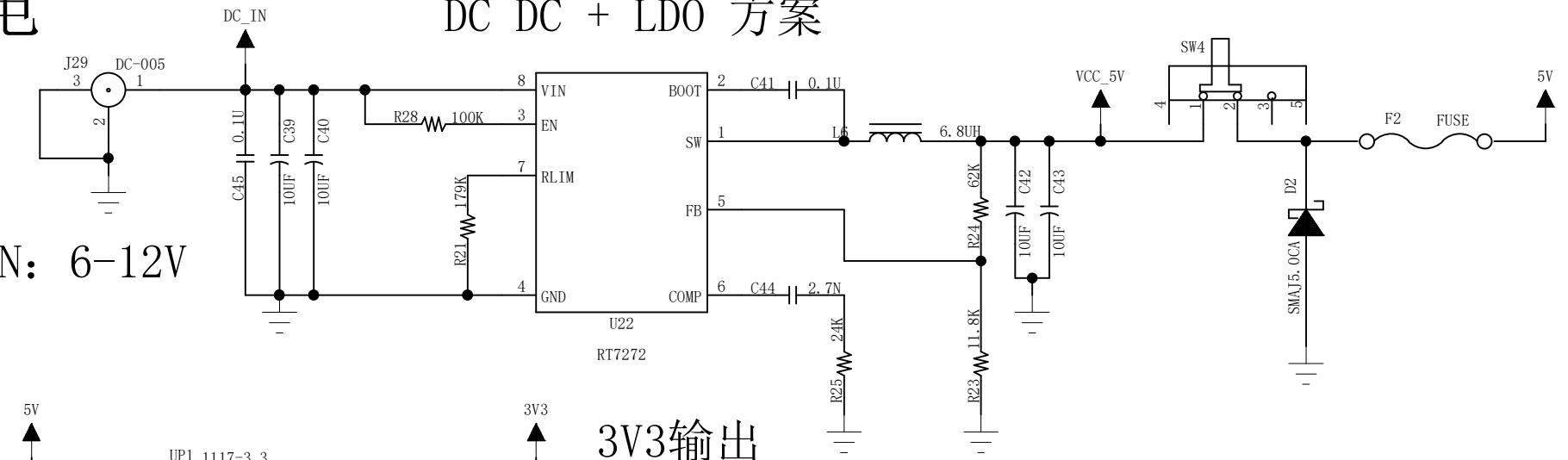


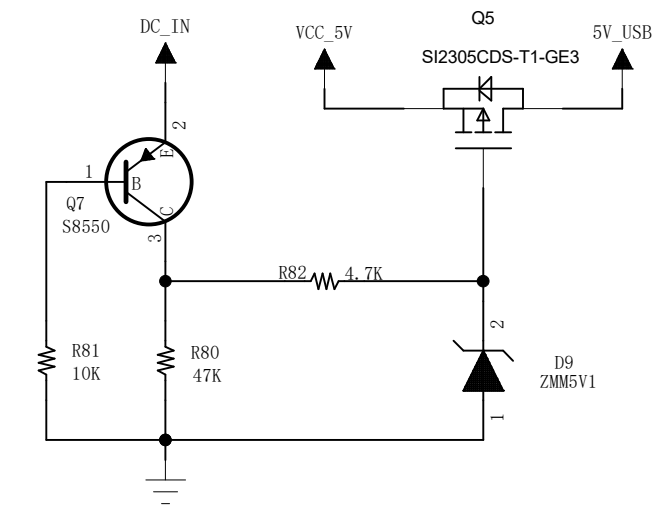
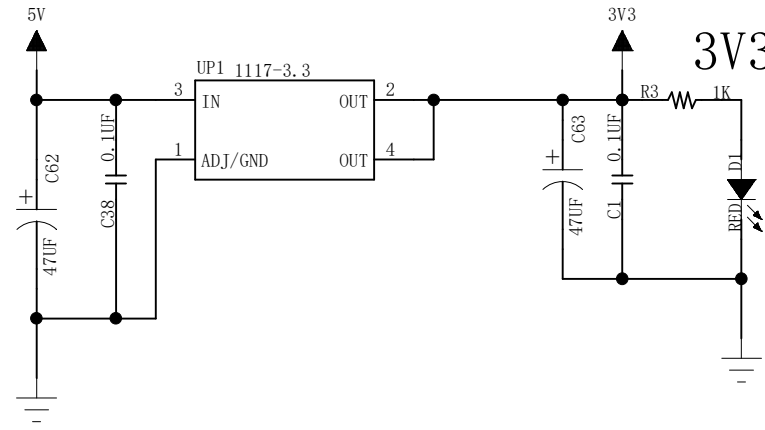
电源供电

DC DC + LD0 方案

DI_IN: 6-12V

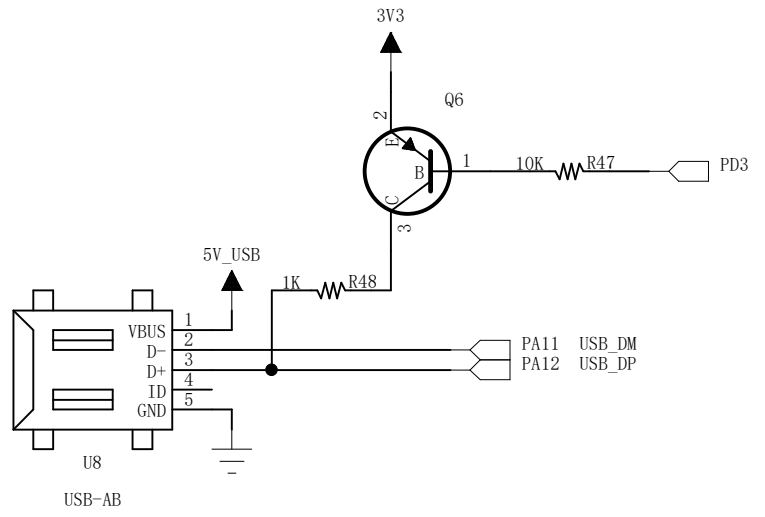


3V3输出

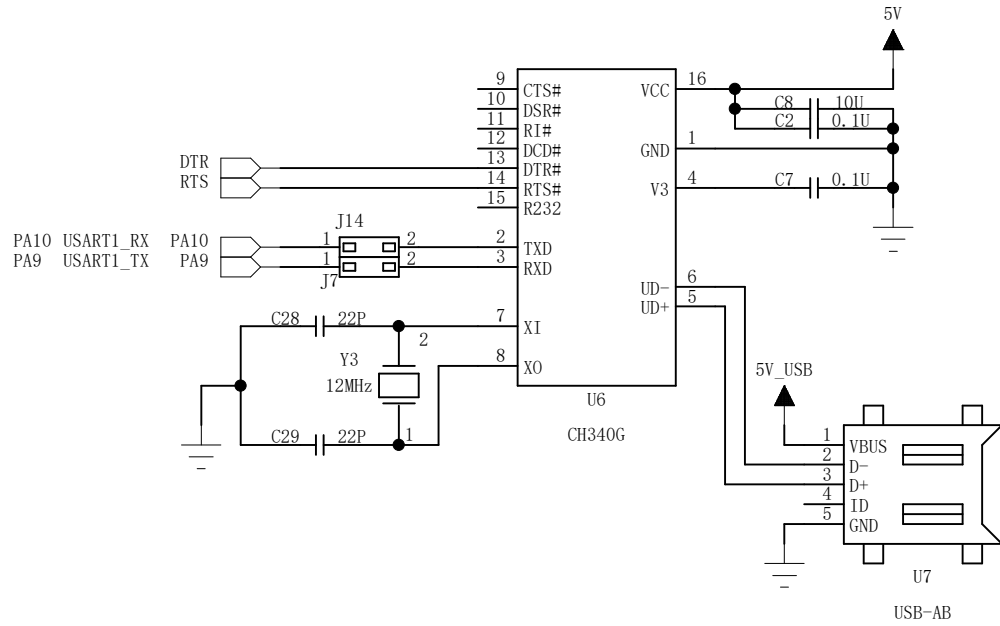


外部电源供电时断开USB供电，防止灌电流，保护电脑USB口

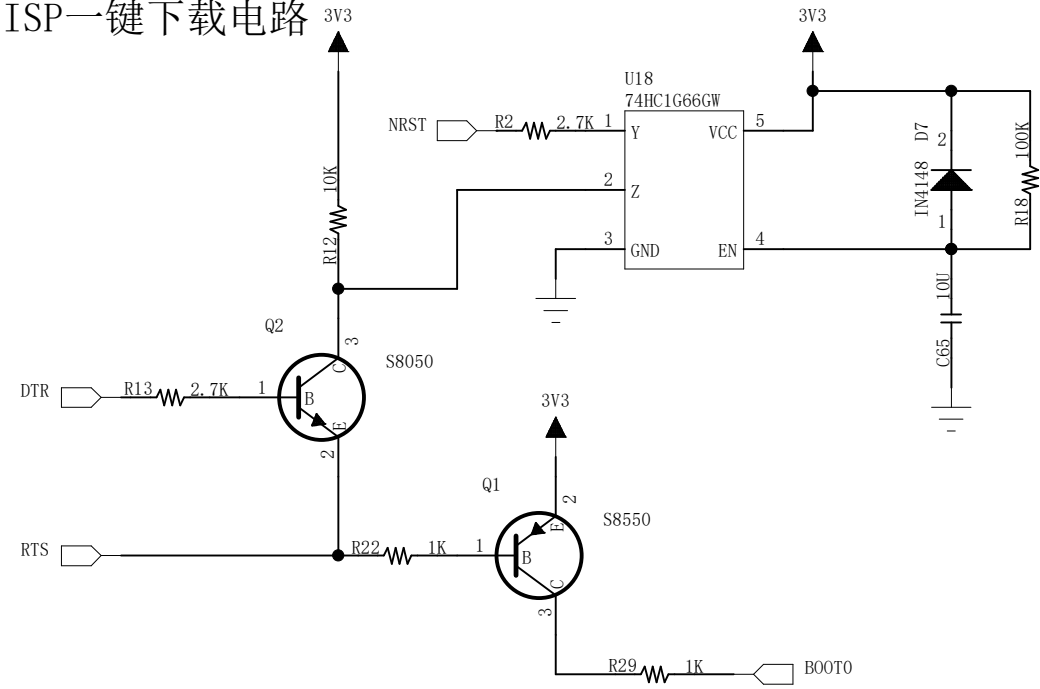
USB-Device



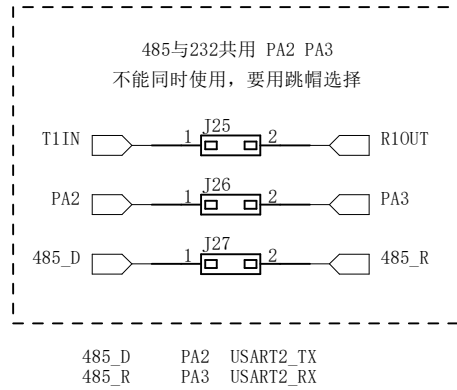
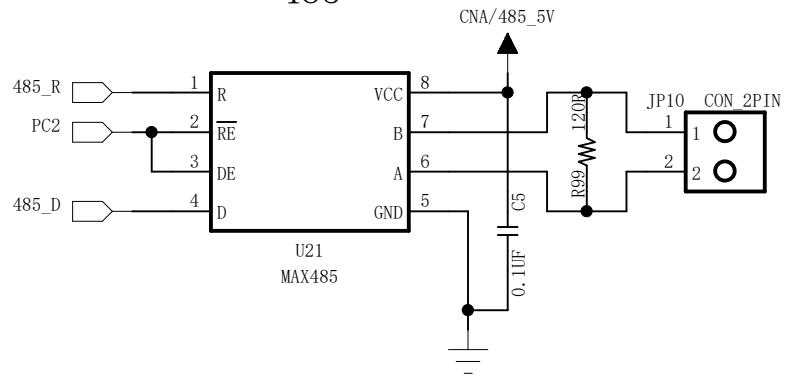
USB转串口



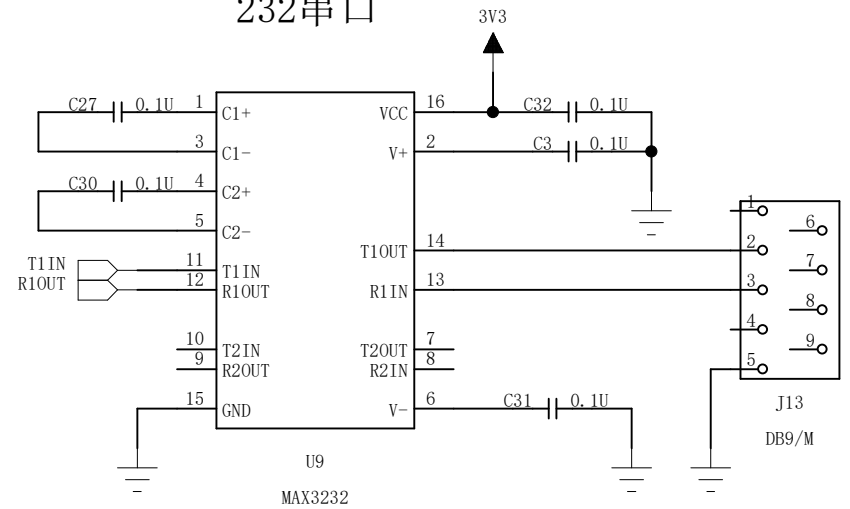
ISP一键下载电路

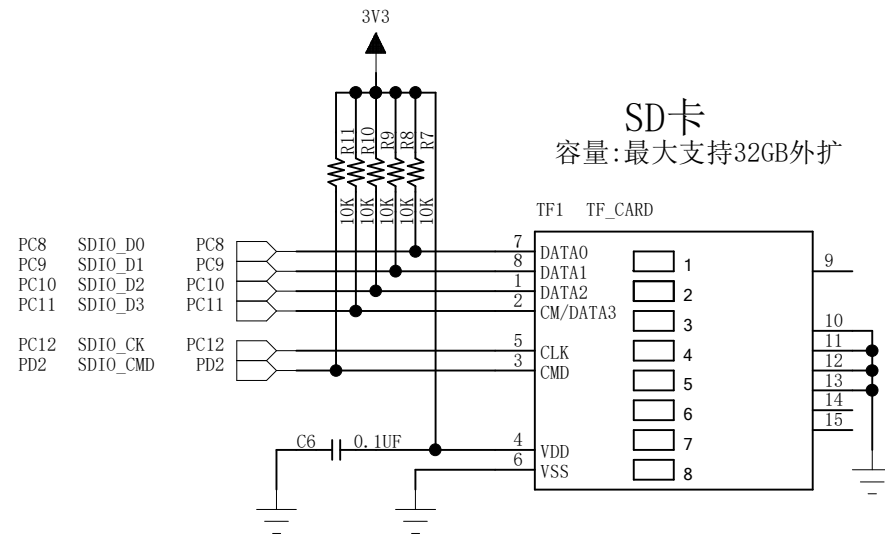
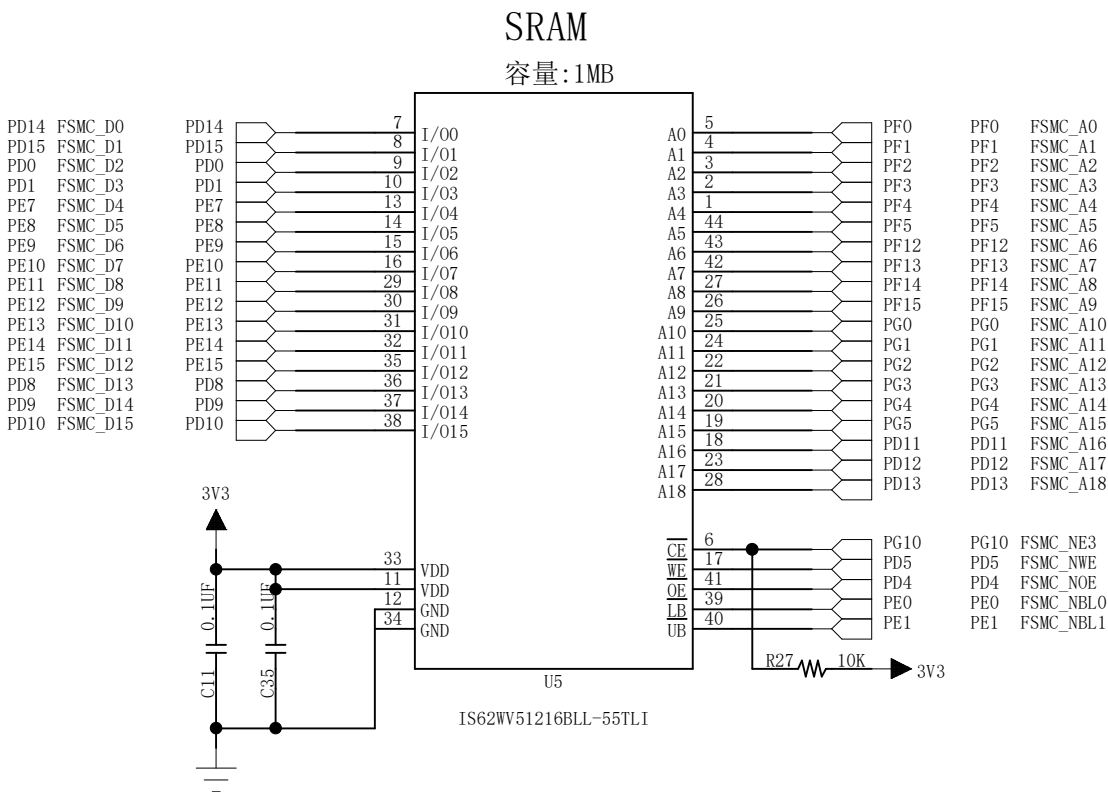
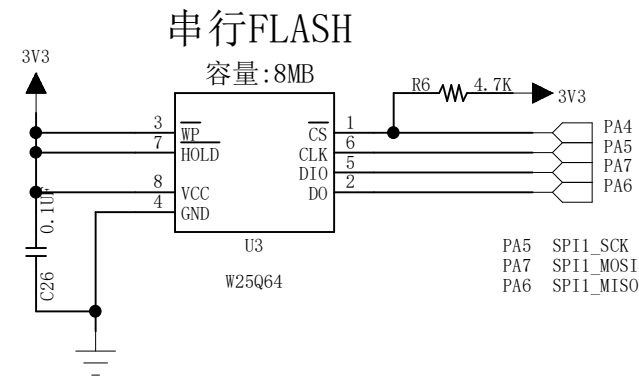
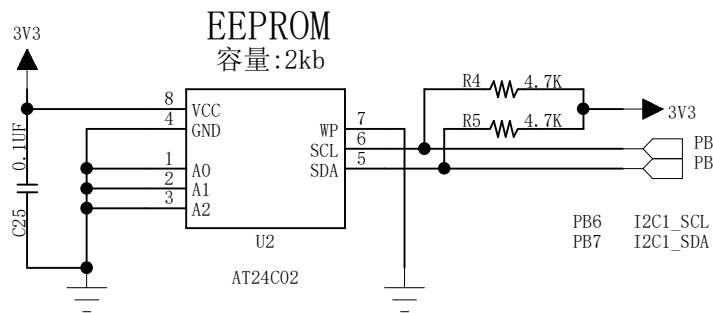


485

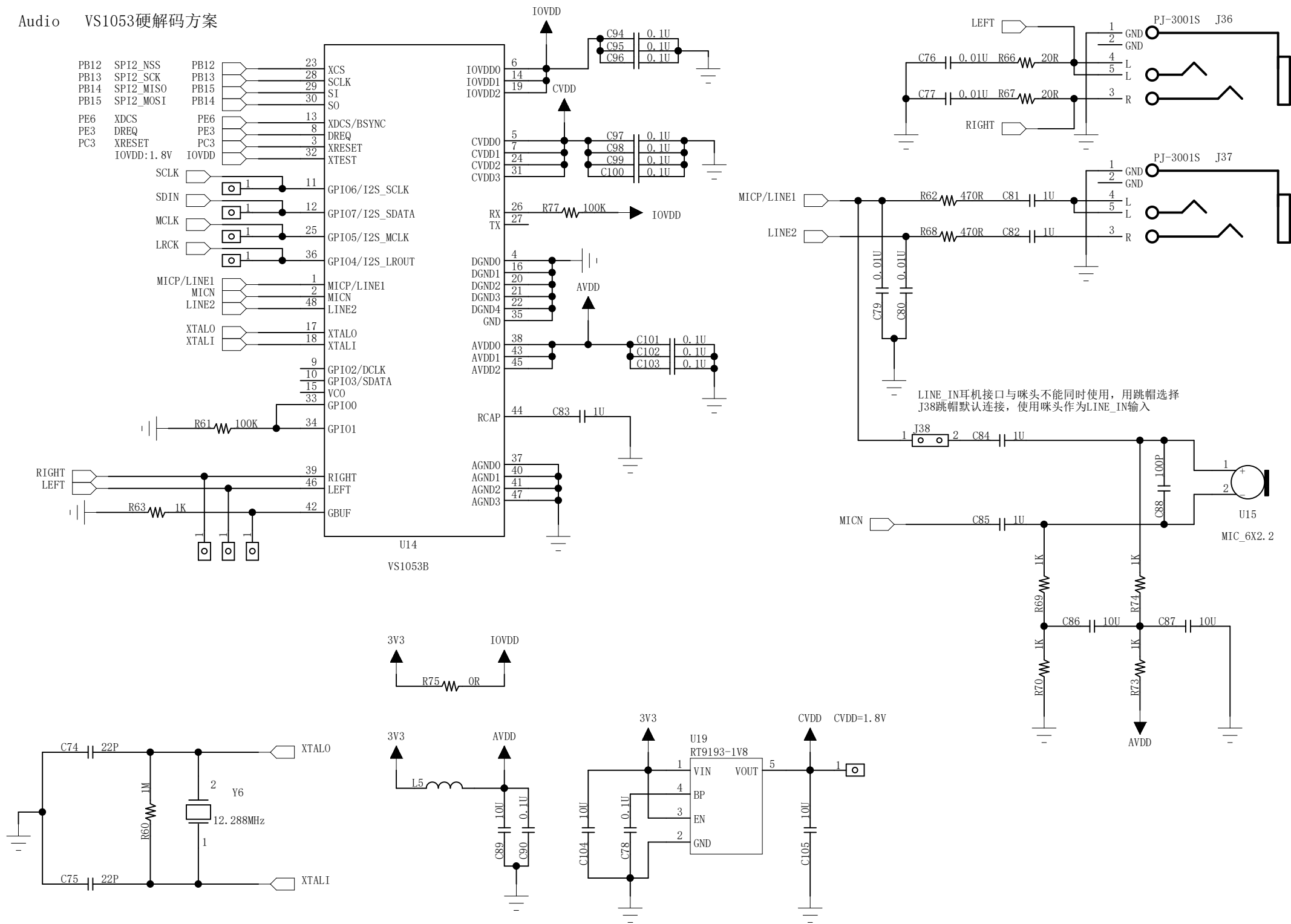


232串口

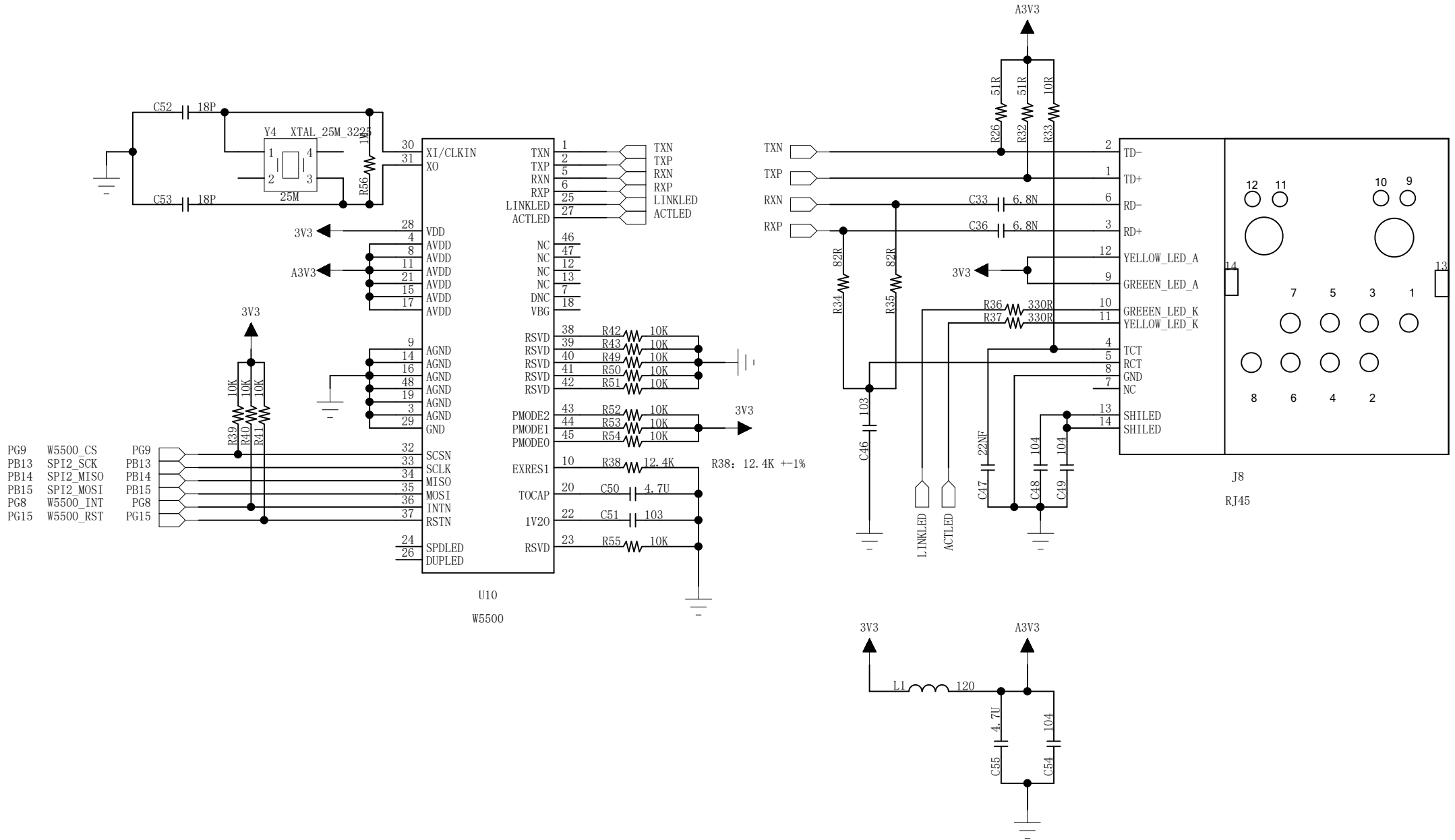




Audio VS1053硬解码方案

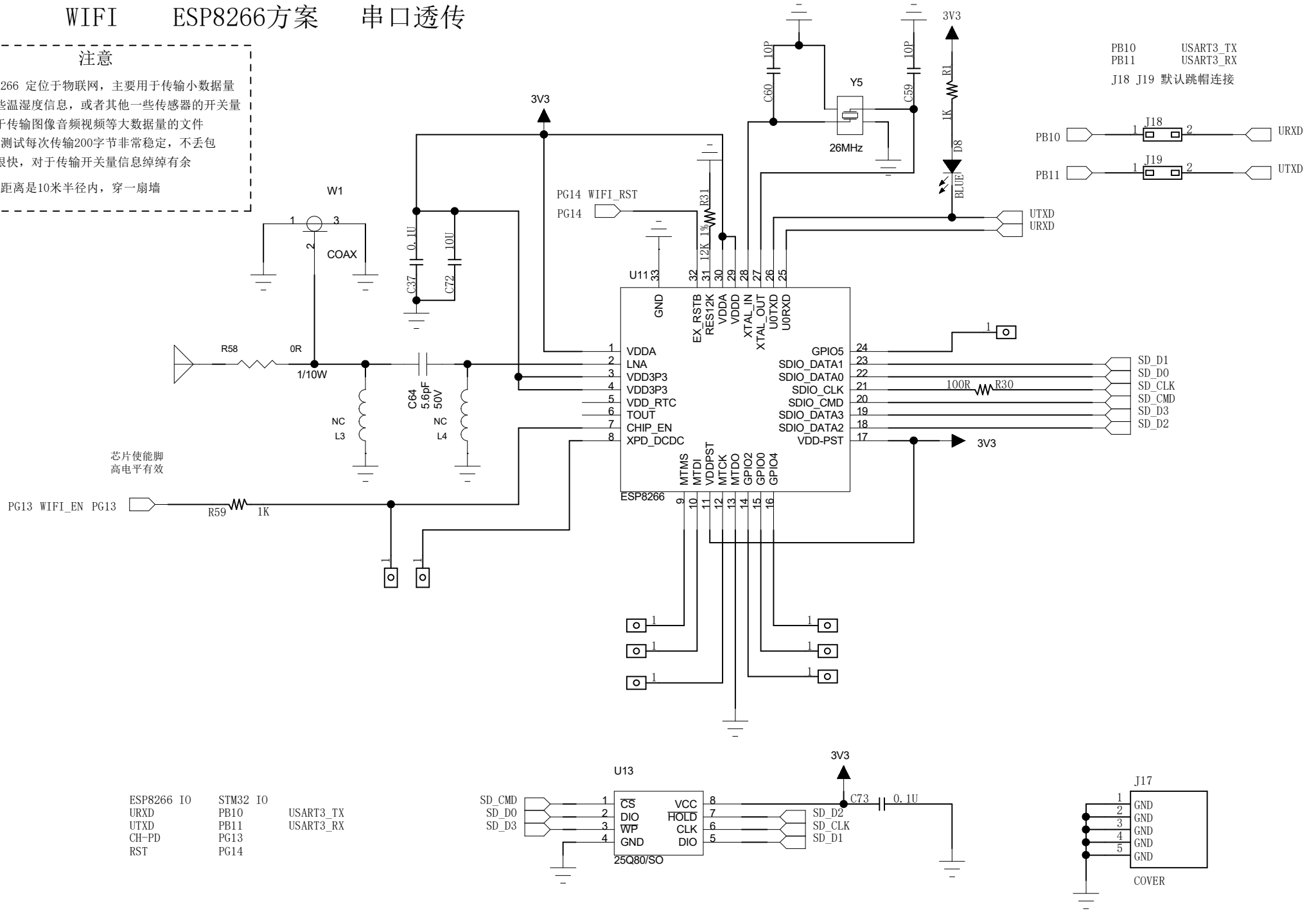


以太网 W5500方案 集成硬件TCP/IP协议栈



注意

- 芯片使能脚
高电平有效



LED1 具备 PWM 调光功能-可实现全彩呼吸灯

LED1

RGB 3528 D3

PB5 1K R79

PB0 1K R78

PB1 1K R44

LED1 PF7 BLUE! D4 1K R45

LED2 PF8 BLUE! D5 1K R46

TIM3_CH2/PB5 LED_R

TIM3_CH3/PB0 LED_G

TIM3_CH4/PB1 LED_B

3V3

按键

Left Diagram: A circuit for button K2. It features a 3V3 supply connected to a 4.7K resistor (R65). The other end of R65 is connected to one terminal of button K2 and a 104 capacitor (C61). The other terminal of button K2 is connected to PC13. The other end of C61 is connected to PC13 KEY2. The common terminal of K2 is connected to ground.

Right Diagram: A circuit for button K1. It features a 3V3 supply connected to a 4.7K resistor (R64). The other end of R64 is connected to one terminal of button K1 and a 104 capacitor (C56). The other terminal of button K1 is connected to PA0. The other end of C56 is connected to PA0 KEY1. The common terminal of K1 is connected to ground.

DHT11/DS18B20接口

U16

DHT11/DS18B20

J2 J3 J9 J16组合成一个 2x4P 的排针

PC0 1 J2 2 3V3

PC2 1 J3 2 PC3

PC4 1 J9 2 PC5

VR 1 J16 2 PC1

J16跳帽接上, PC1接到电位器

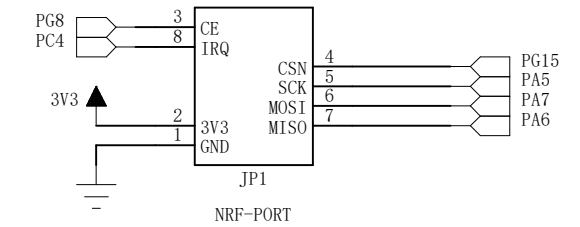
3V3

R20
EVM3ESX50B15
CW

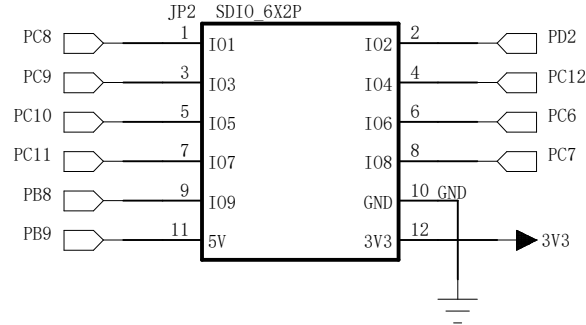
贴片滑动变阻器

程序上用的是ADC的捕获功能

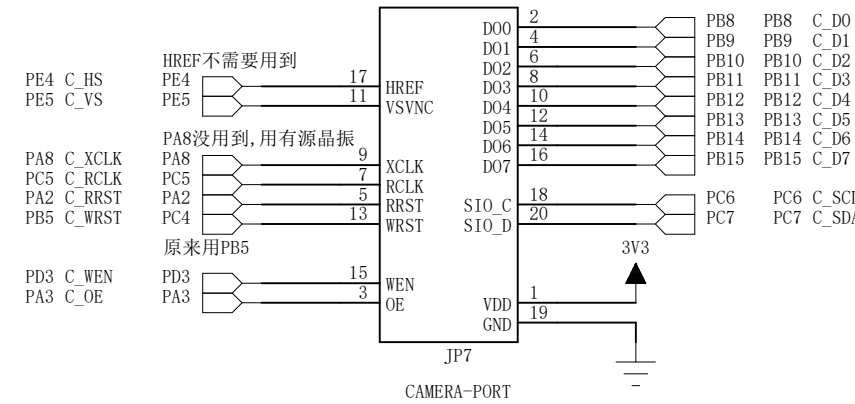
NRF24L01接口



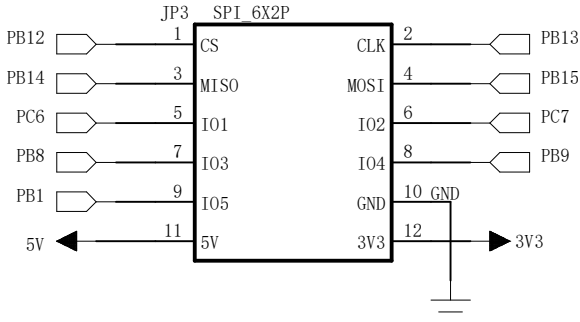
SDIO接口



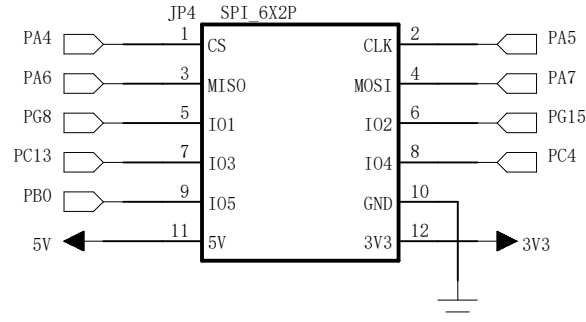
摄像头接口



SPI2/I2S接口

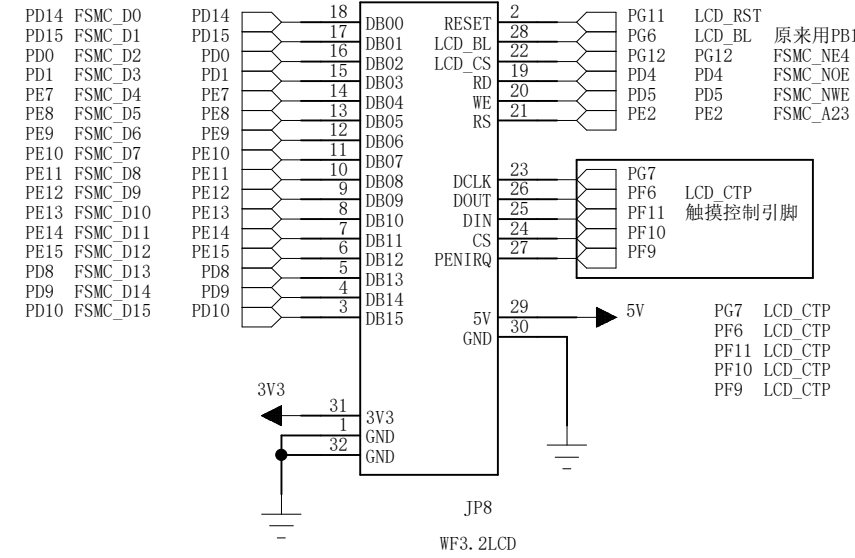


SPI1接口

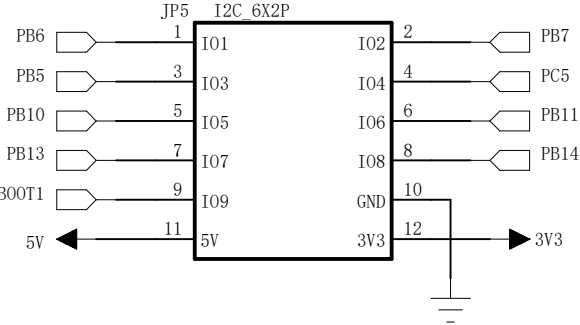


液晶接口

支持3.2寸/5寸液晶



I2C1 / 2 接口



UART1/ 2 接口

