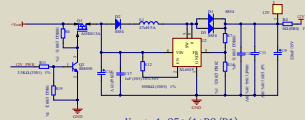
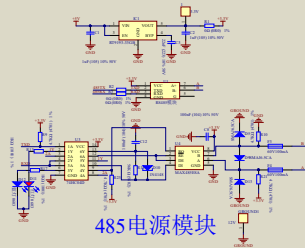


外接端子

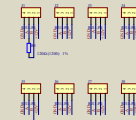


$$V_{out} = 1.25 * (1 + R2/R1)$$
$$12.5V = 1.25 * (1 + 180K/20K)$$

12V升压模块

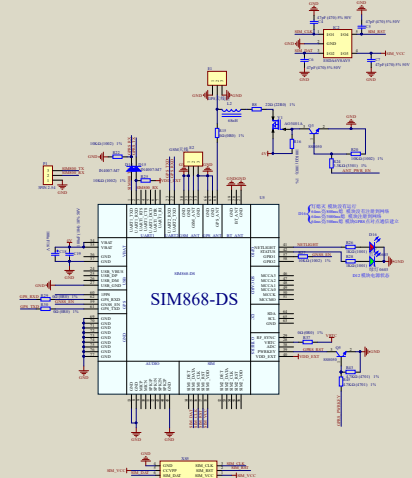


485电源模块

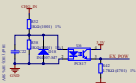


全部改成RJ45水晶头4P

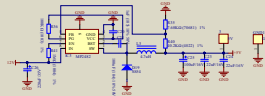
485总线接口



GPRS_RESET



外部输入电源检测



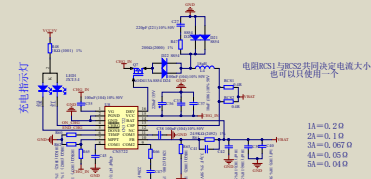
5V电源



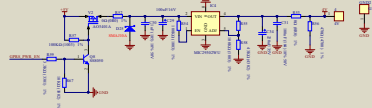
485外设电源开关



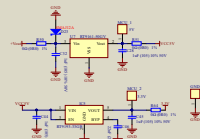
功能按键



太阳能充电模块

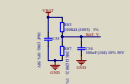


4V电源

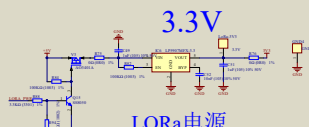


单片机电源

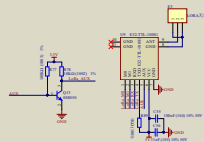
定位安装孔



电池电压检测



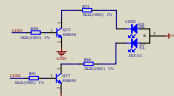
LORa电源



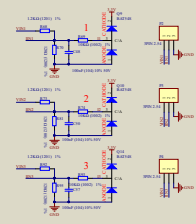
LORa模块



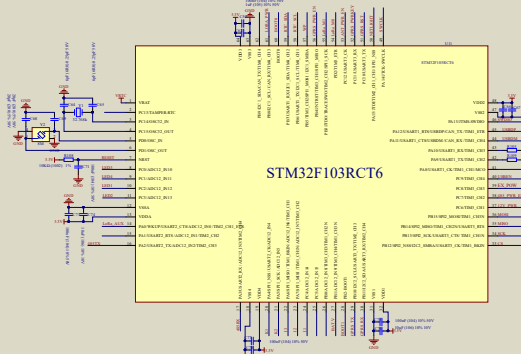
状态指示灯



网络指示灯



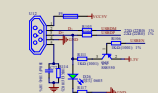
模拟输入接口



单片机STM32F103RCT6



EEPOM



USB调试接口



纽扣电池



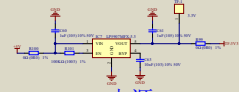
BOOT启动模式选择



程序下载接口



单片机调试串口



TF电源



电平转换电路



TF卡

Version	1.0
Author	Wang
Date	2023-10-27