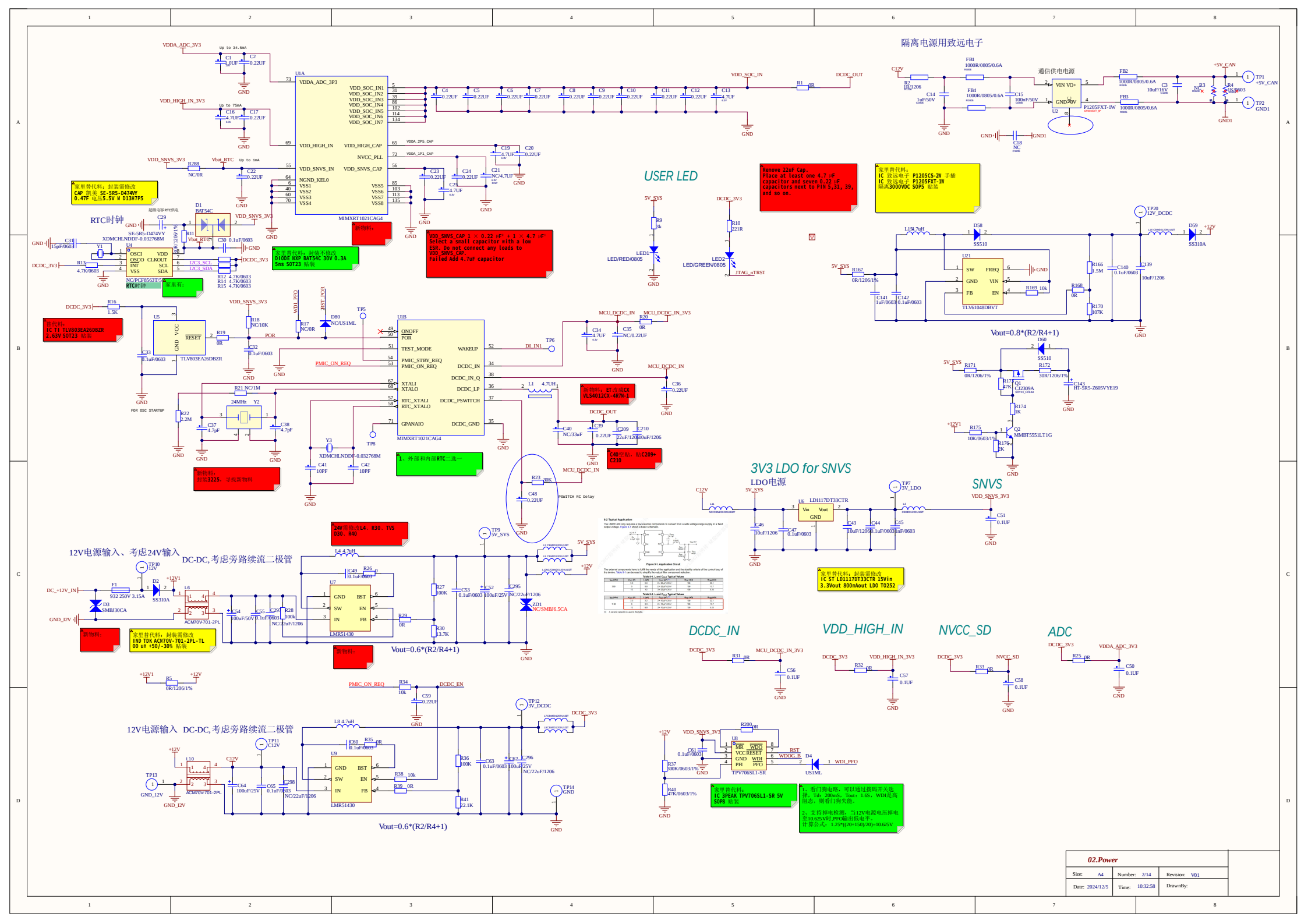
版本号	变更内容
V01	创建文件

01.Version		
Size: A4	Number: 1/14	Revision: V01
Date: 2024/12/5 Time: 10:32:58	DrawnBy:	


隔离电源用致远电子
USER LED
RTC时钟
3V3 LDO for SNVS
LDO电源
SNVS
12V电源输入、考虑24V输入 DC-DC,考虑旁路续流二极管
12V电源输入 DC-DC,考虑旁路续流二极管
DCDC_IN
VDD_HIGH_IN
NVCC_SD
ADC
Vout=0.6*(R2/R4+1)
Vout=0.8*(R2/R4+1)
02.Power
Size: A4
Number: 2/14
Revision: V01
Date: 2024/12/5
Time: 10:32:58
DrawnBy:

A枪主回路控制继电器
K1: DC+
K2: DC-
K5:预充继电器
B枪主回路控制继电器
K3: DC+
K4: DC-
K6:预充继电器
K7: KB预留
PWM_OUT1-3: A枪对应灯板控制
PWM_OUT4-6: B枪对应灯板控制

UART1:RS232
UART2:485/Debug
UART3:RS232
UART4:RS232
UART5:RS232
UART6:485
UART7:485

MCU PINOUT

BOOT CFG

不能改变BOOT状态

3v3 QSPI Flash

新物料:

3v3 EEPROM

家里替代料:
BL24C64A-PARC, 贝岭

家里替代料:
DIODE 长晶 BAT54S 30V 0.2A
Snsns SOT23 贴装

1、滤波电容尽量靠近MCU采样口
2、TVS靠近连接器接口放置
3、替代料：IC 3PEAK LMV324B-SR 4组 SOIC-14 贴装

概述：标红的是开发板默认配置，重点关注颜色标繁的IO口配置有无问题？

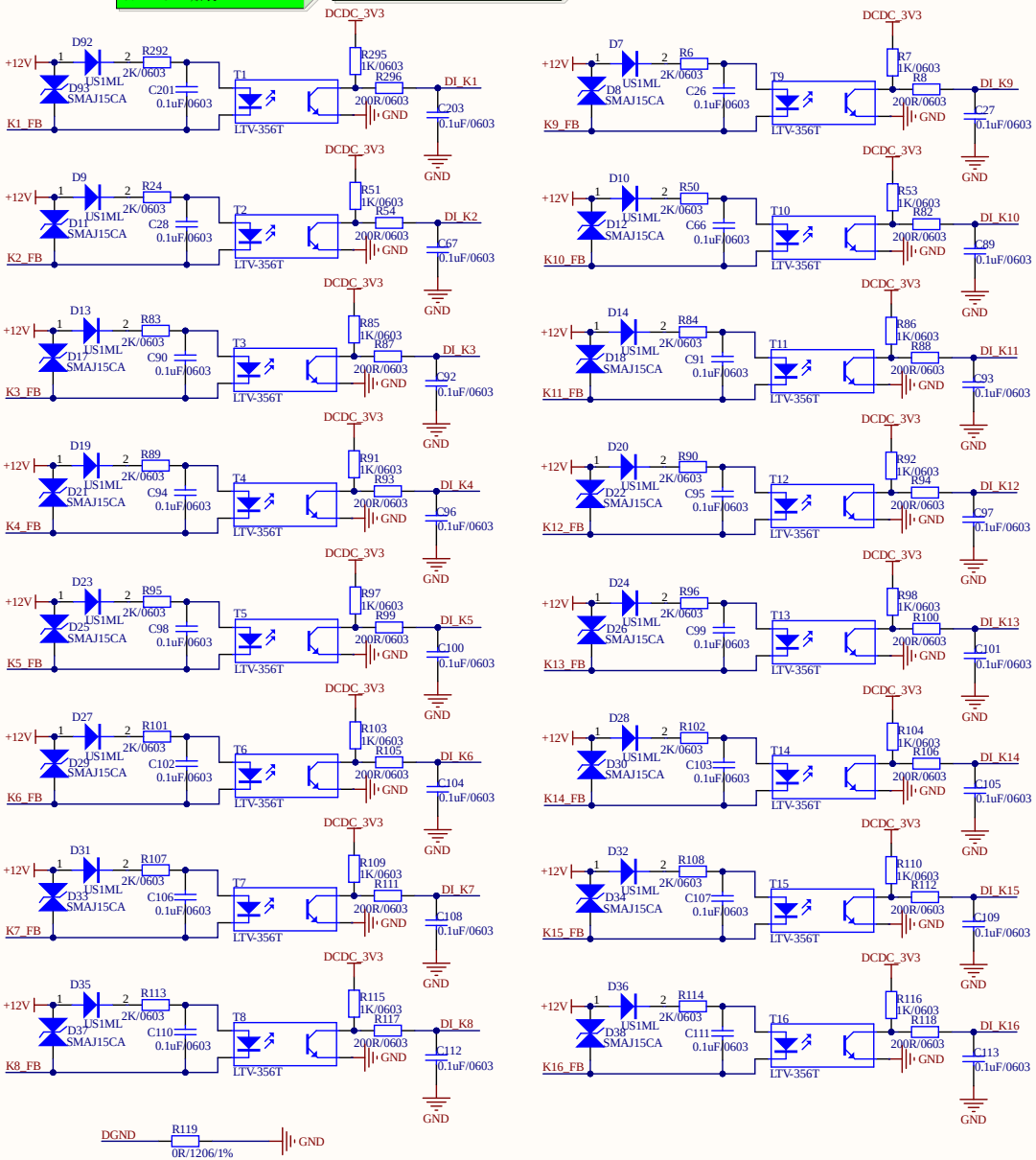
问题：
1、上电复位POR电路？
2、8个串口分配有无问题？1-5用作RS232，2、6-8作为RS485.
3、CAN1、CAN2引脚分配有无问题？
4、IIC1、IIC3引脚分配有无问题？
5、ADC 引脚分配有无问题？
6、PWM_OUT1-6引脚分配有无问题？定时器作PWM
7、以太网ENET_CRS_DV（97PIN改为122）有无问题？开发板以太网电路是否考虑EMI？
8、外部flash 启动，BOOT 配置有无问题？
9、其他GPIO配置有无问题，是否需要特别上下拉？
10、SE050只使用IIC接口，设计电路有无问题？

03.MCU RT1021			
Size: A4	Number: 4/14	Revision: V01	
Date: 2024/12/5	Time: 10:32:58	DrawnBy:	

继电器反馈

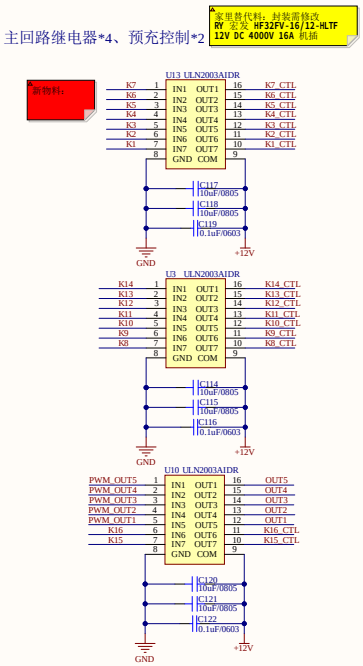
家里替代料：
DIODE 长晶 US1ML 1000V 1A
SOD-123FL 贴装

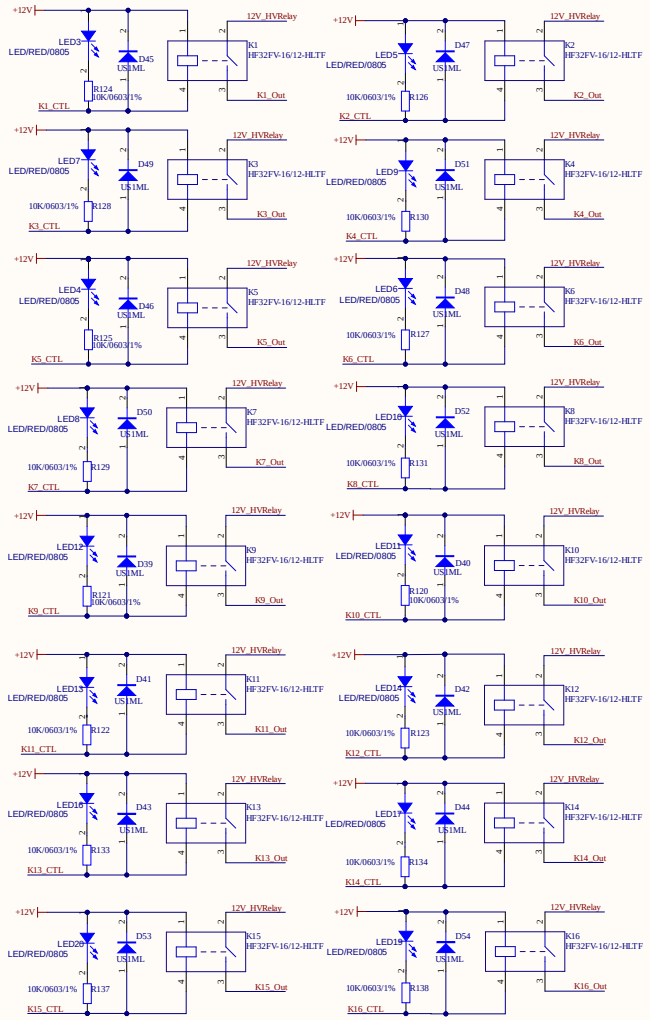
1、滤波电容尽量靠近MCU采样口
2、TVS靠近连接器接口放置

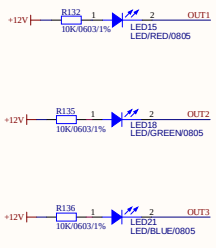


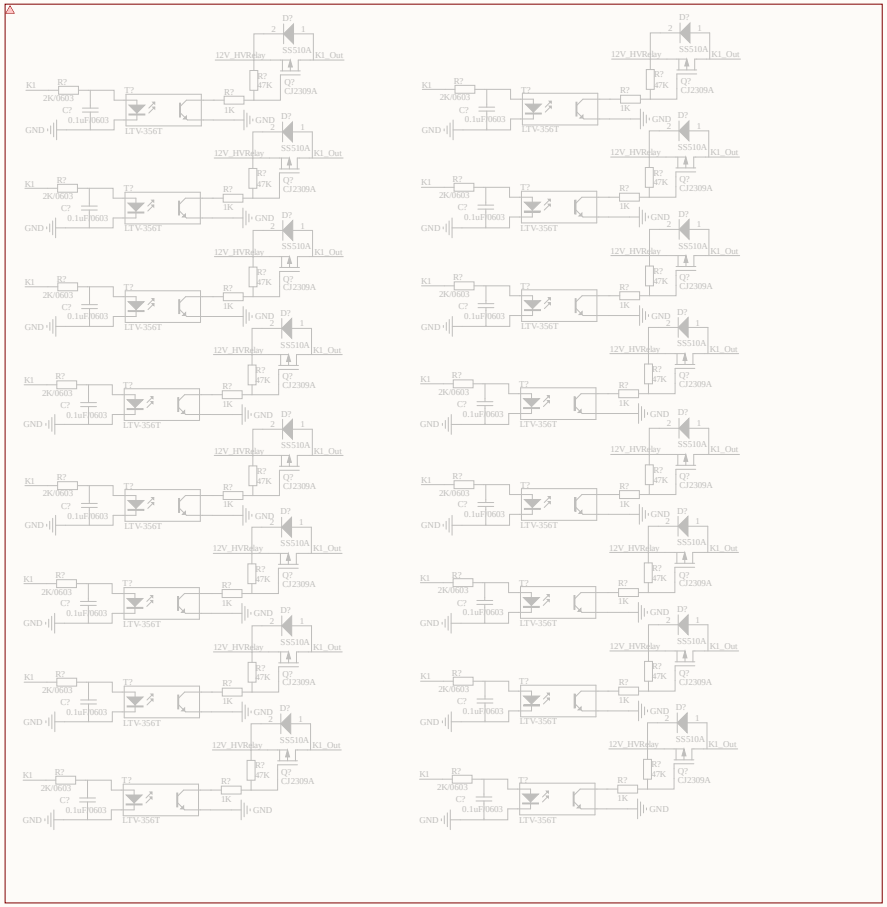
03.DI			
Size: A4	Number: 2/14	Revision: V01	
Date: 2024/12/5	Time: 10:32:58	DrawnBy:	

主回路继电器*4、预充控制*2

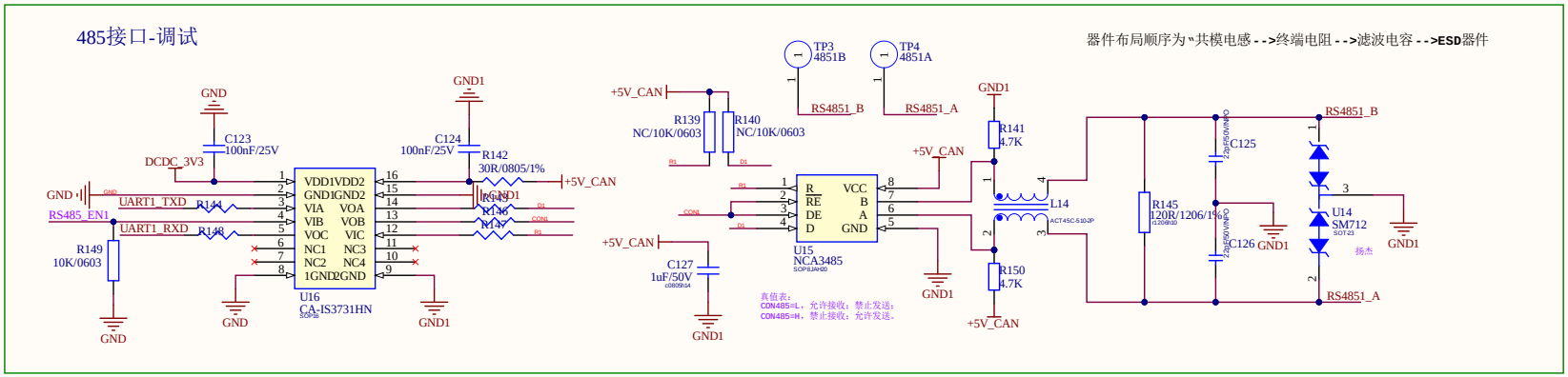


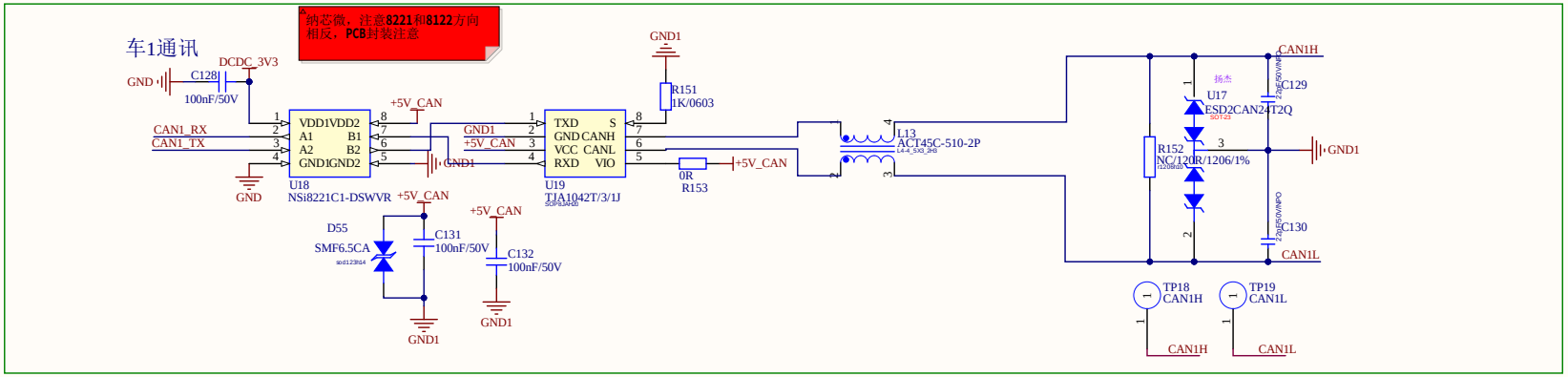






04.DO			
Size: A4	Number: 4/14	Revision: V01	
Date: 2024/12/5	Time: 10:32:59	DrawnBy:	

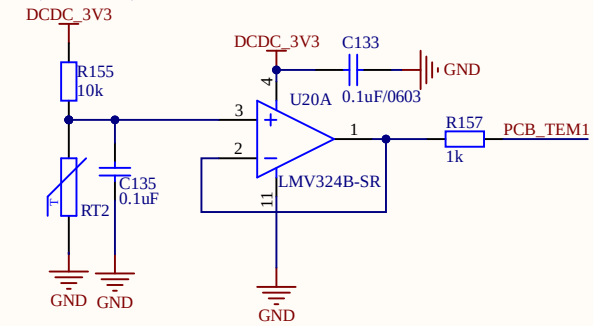


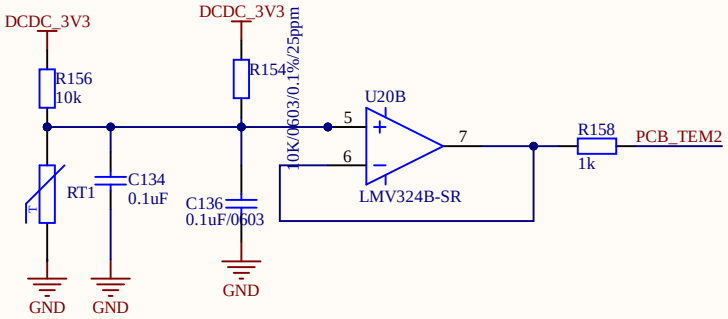


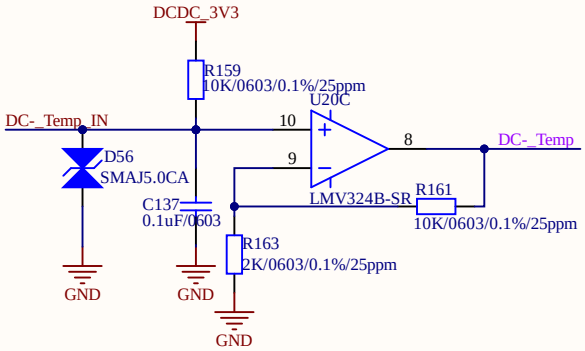
06 RS232			
Size: A4	Number: 11/14	Revision: V01	
Date: 2024/12/5	Time: 10:32:59	DrawnBy:	

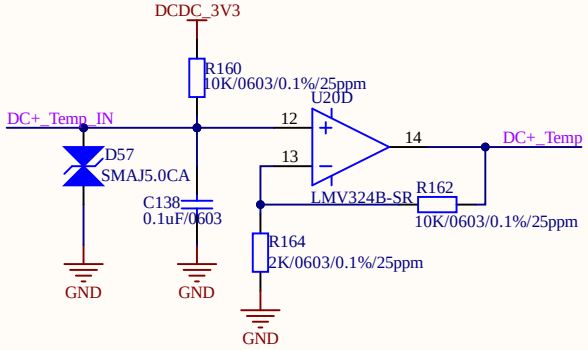
温度检测

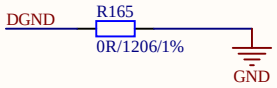
主板温度检测











10. ADC			
Size: A4	Number: 14/14	Revision: V01	
Date: 2024/12/5	Time: 10:32:59	DrawnBy:	

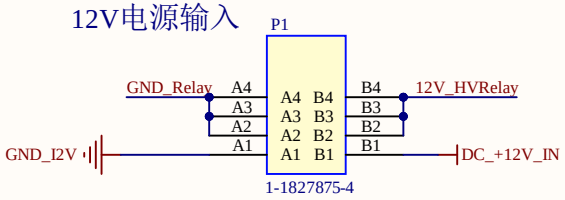
转接板:拨码、烧录、指示等等

1、接触器线圈正、负
2、接触器反馈正、负
3、PT1000 3根线

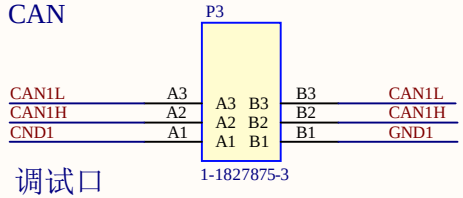
立式

立式

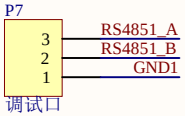
12V电源输入



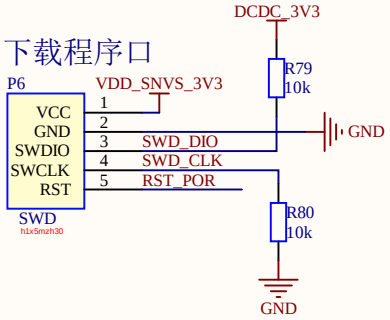
CAN



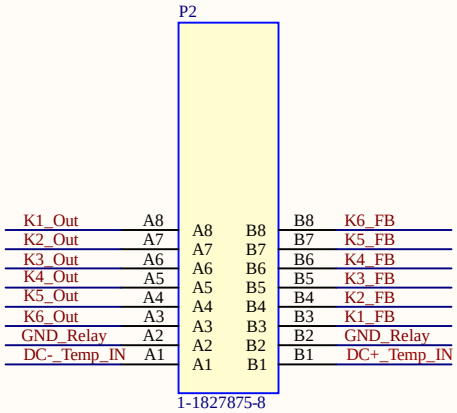
调试口



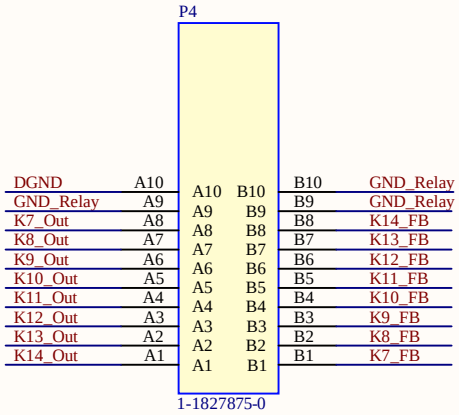
下载程序口

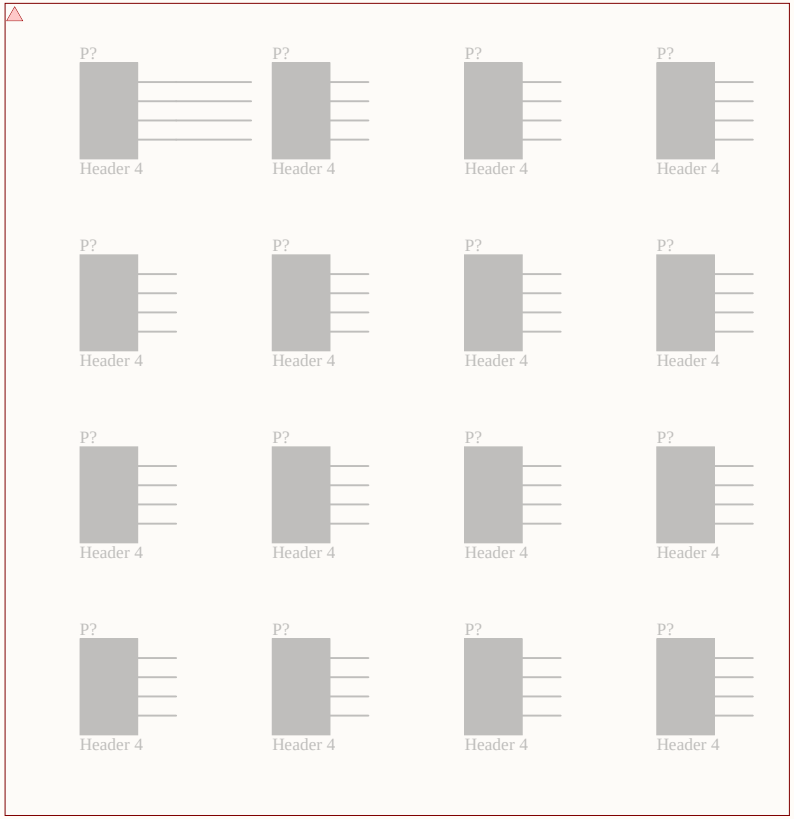


继电器组1-6控制、反馈&温度采样



继电器组控制、反馈7-14





11 Connect			
Size: A4	Number: 4/14	Revision: V01	
Date: 2024/12/5	Time: 10:32:59	DrawnBy:	

LOGO1

LOGO_TRASH

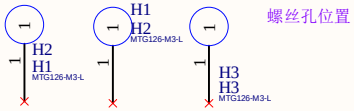
LOGO2

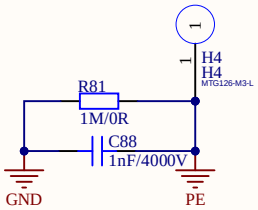
LOGO_ROHS

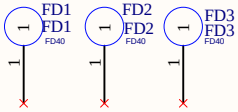
LOGO3

LGOG_ESD

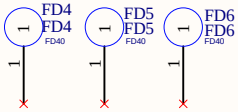
螺丝孔位置







TOP面光学定位点



BOT面光学定位点

MARK1 MARK2 MARK3

PCB1

DH-DC-A7FloorBoard--V1.0-PCB

LOGO4
Cannot open file
E:\dhwork\2-功率分配模块\图片资料\
条形码.png

BarCode

LOGO5
Cannot open file
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条形码.png

BarCode

12 Logo		
Size: A4	Number: 4/14	Revision: V01
Date: 2024/12/5	Time: 10:32:59	DrawnBy: