

野火_F407电机驱动控制板_原理图_V0.1

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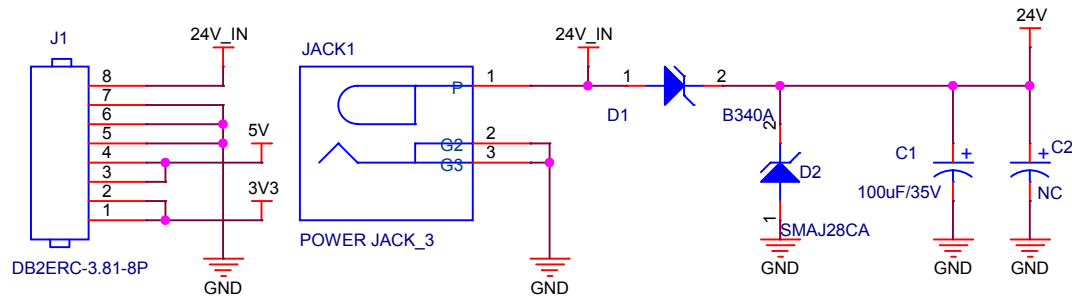
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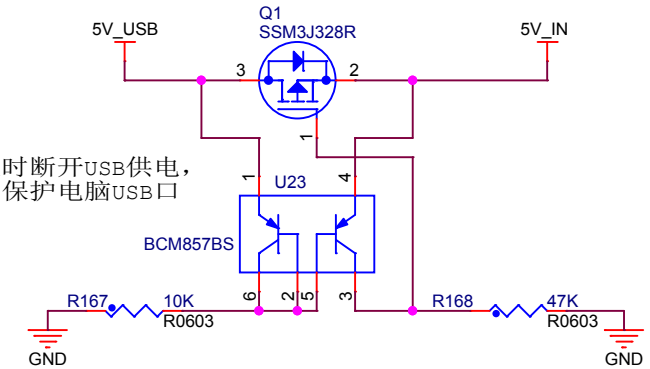
历史版本

版本号	日期	设计	描述
V0.1	2020-01-06	cancore	初始版本

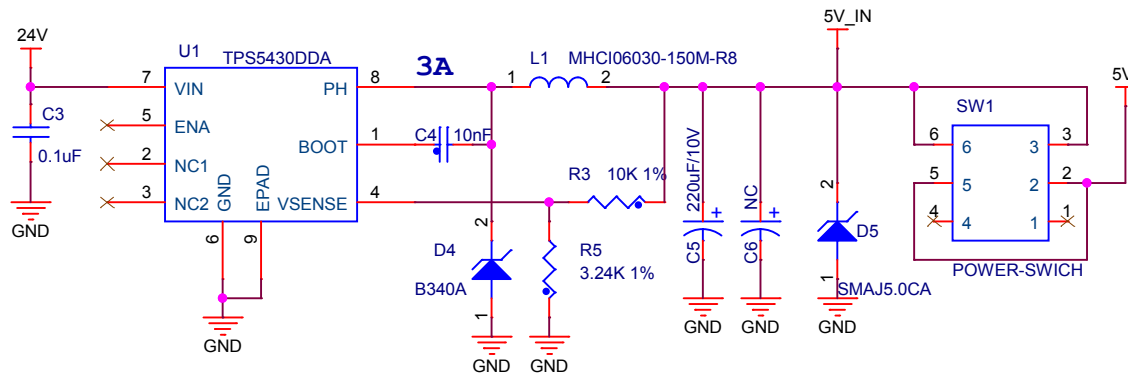
DC IN : 12V~24V



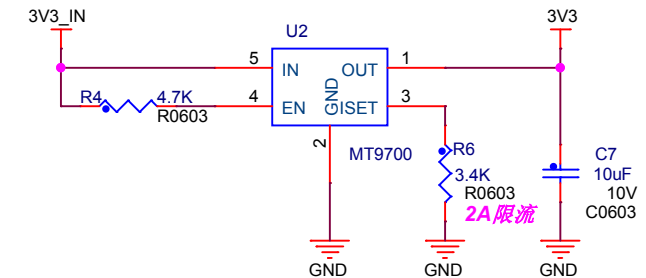
外部电源供电时断开USB供电，
防止灌电流，保护电脑USB口



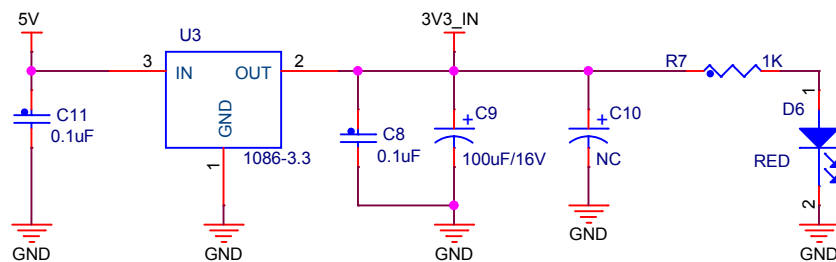
DC/DC 5V



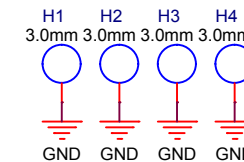
3.3v 输出过流保护



LDO 3.3V



定位孔

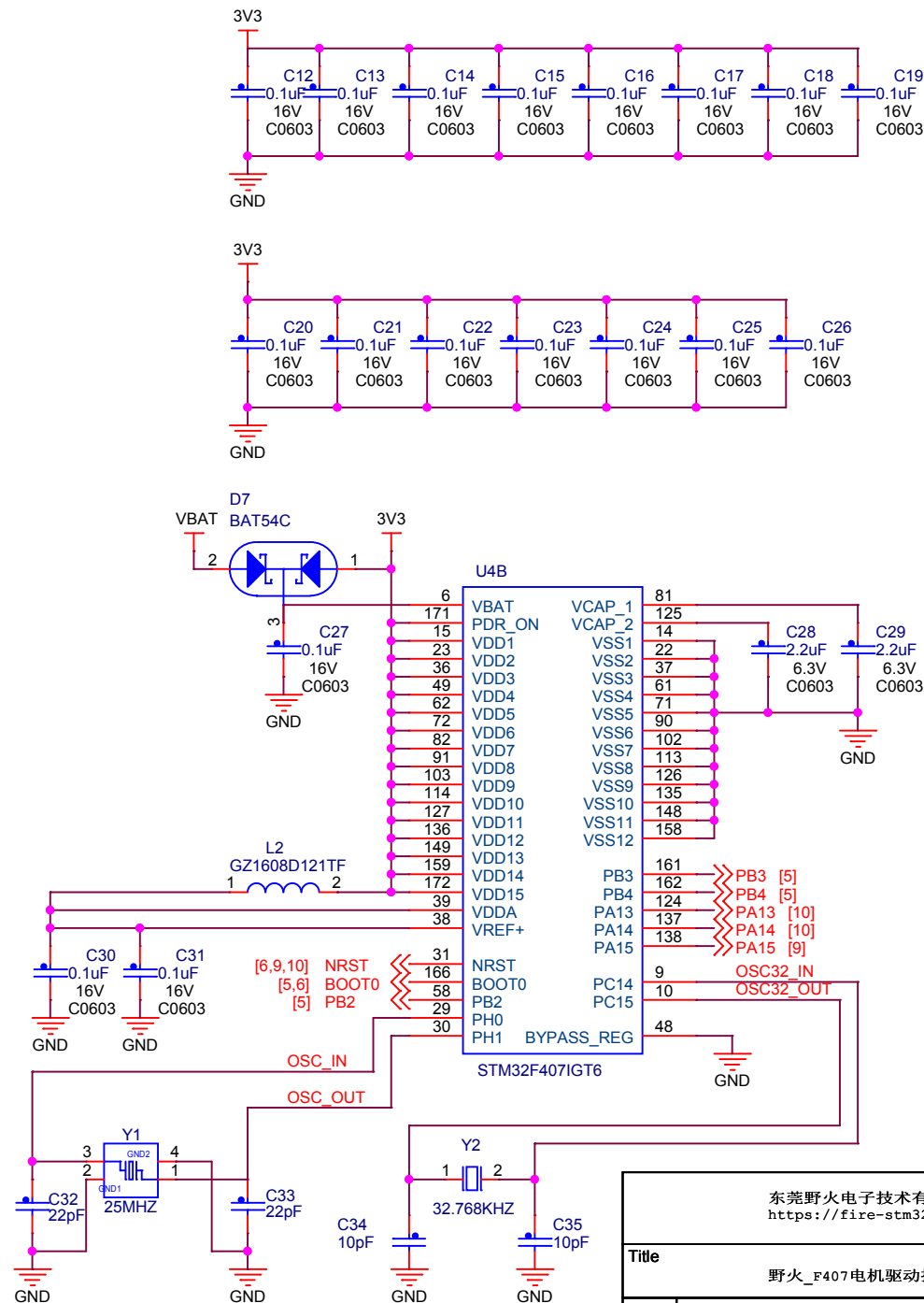
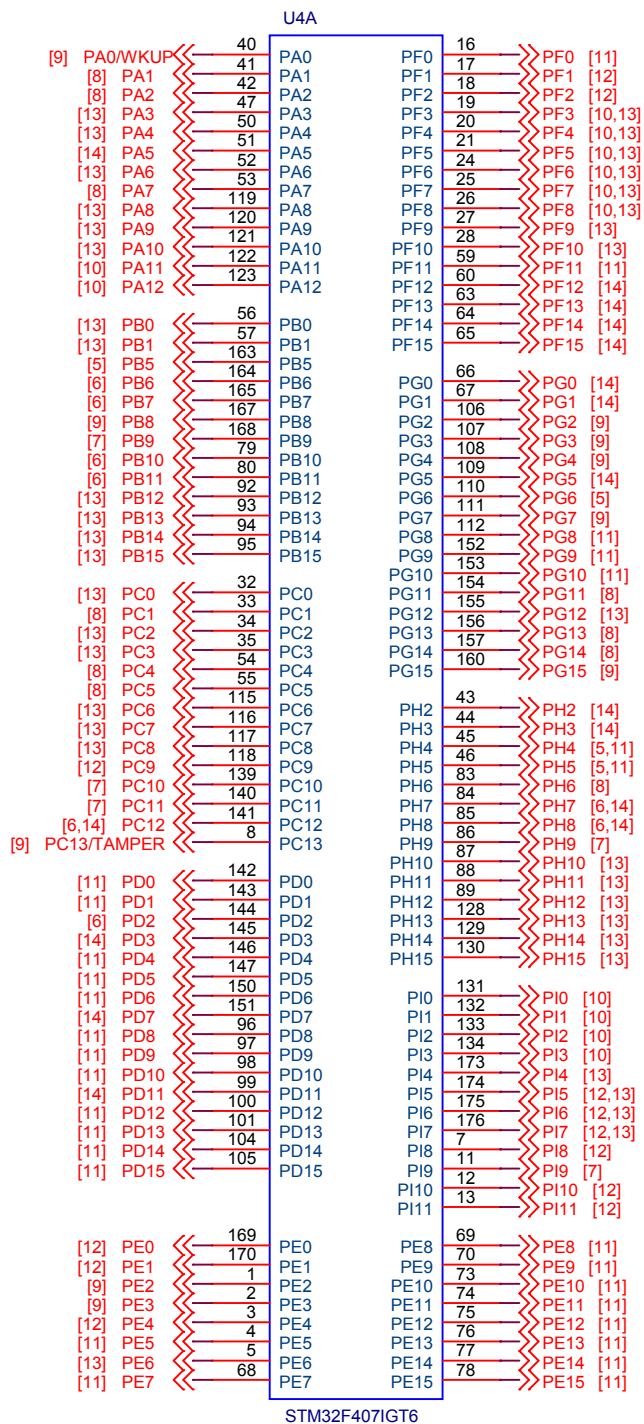


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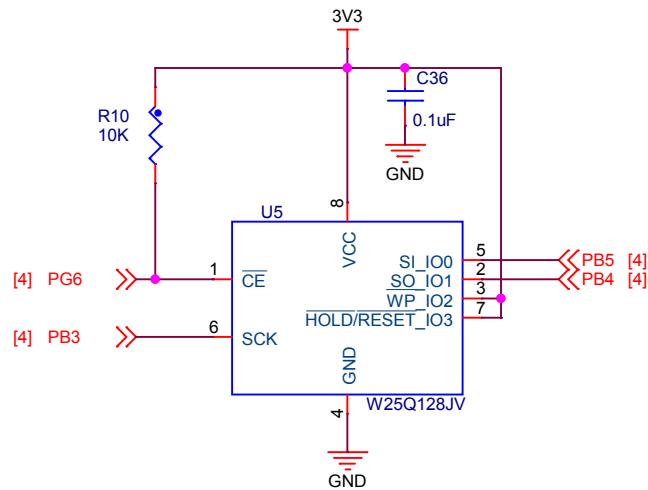


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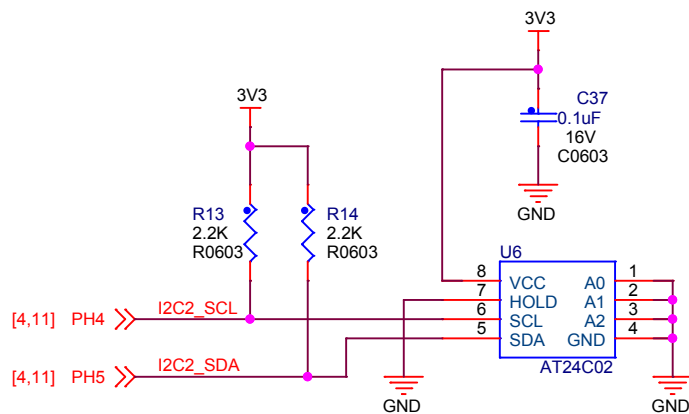
SPI_FLASH

容量：16M字节



EEPROM

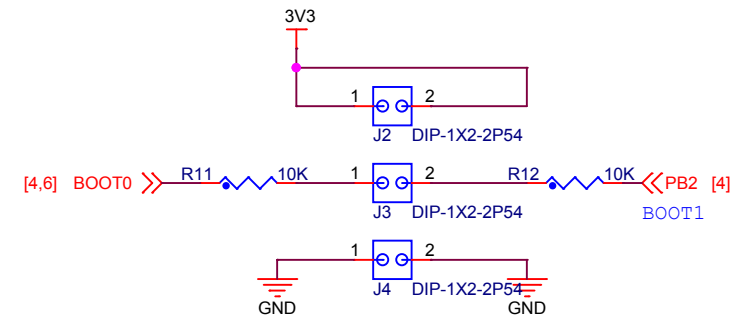
容量：256字节



设置启动模式

F407 BOOT设置

BOOT0	BOOT1	启动方式
0	X	用户闪存
1	0	系统存储器/ISP
1	1	内嵌SRAM
默认配置是用户闪存（即内部Flash）		



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Title

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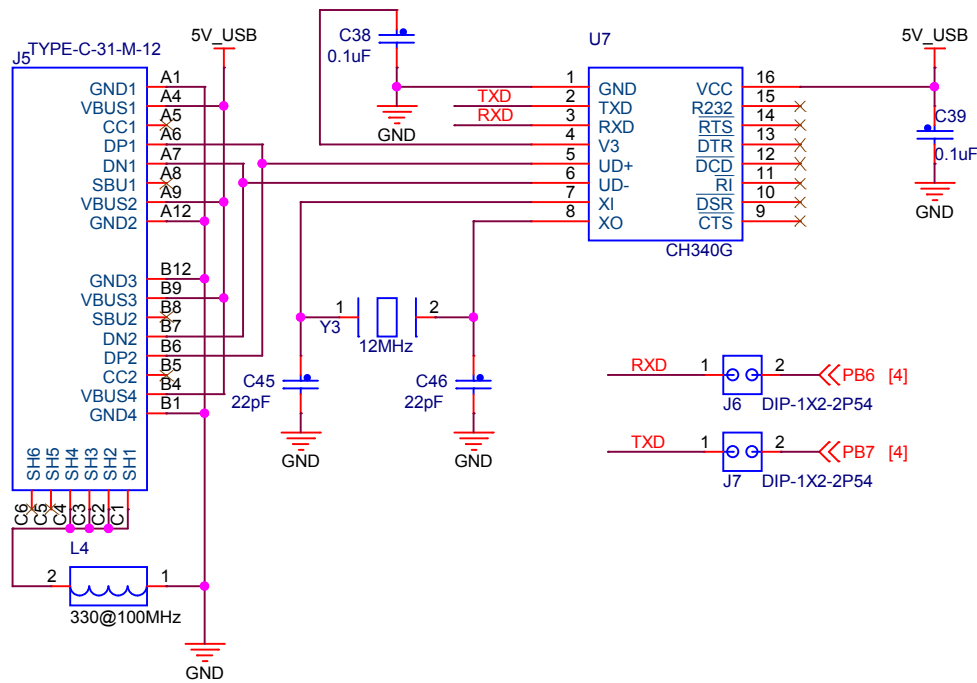
FLASH/EEPROM/BOOT

Rev
V1.0

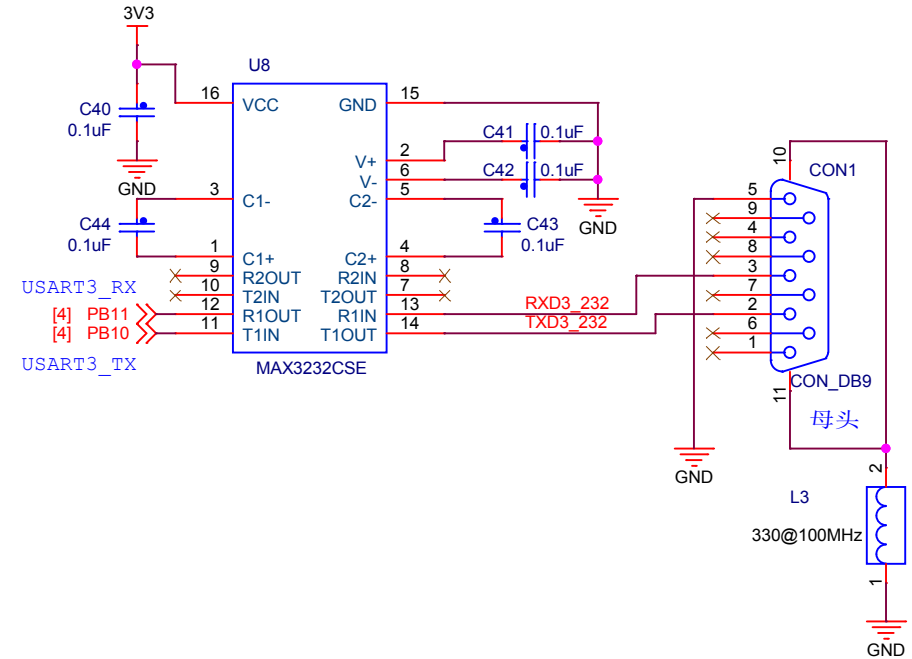
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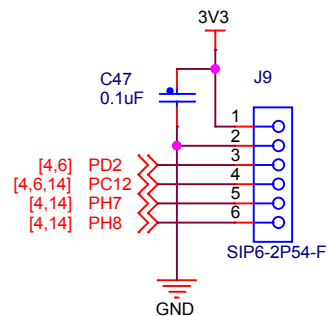
USB转串口



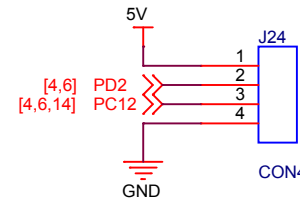
RS232串口



EBF-Module



串口屏接口



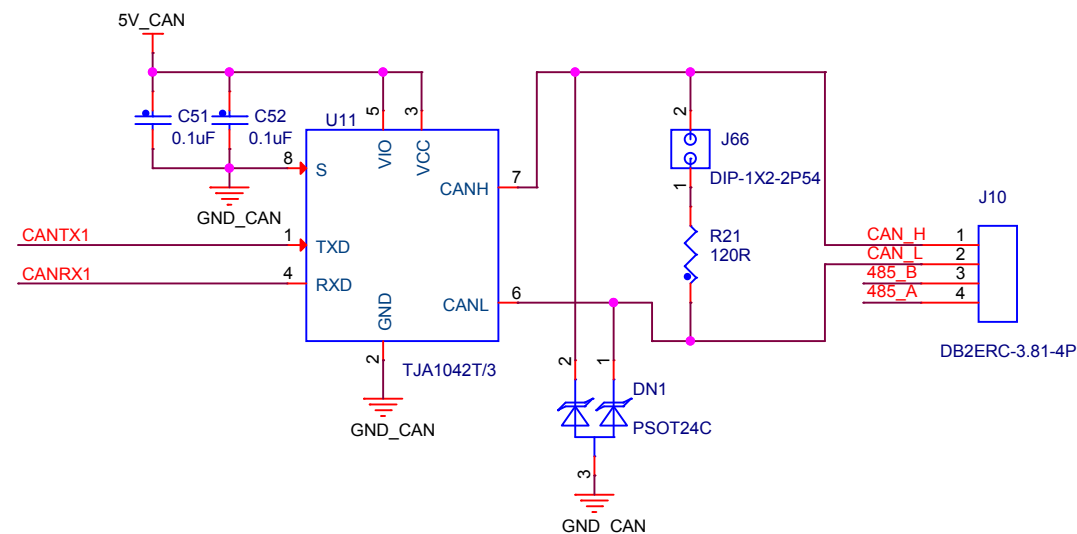
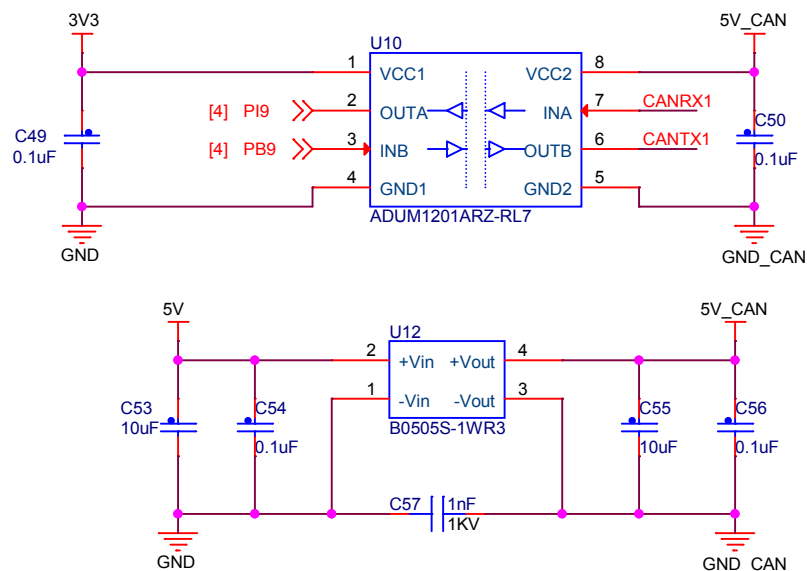
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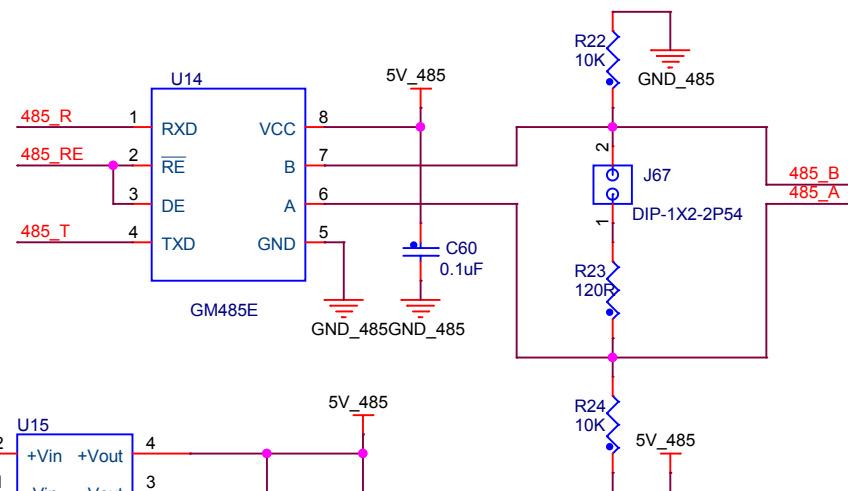
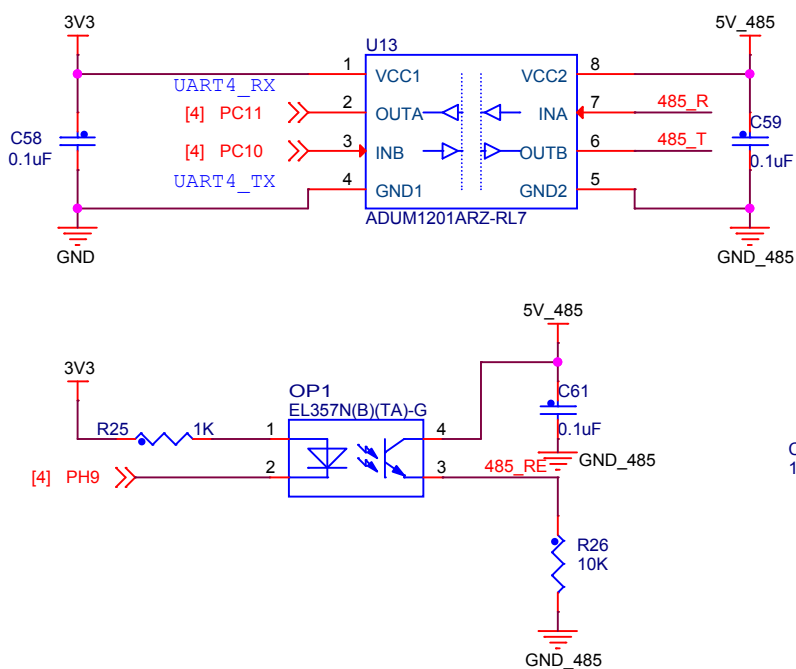
Size A4	Document Number UART/ISP/RS232	Rev V1.0
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CAN



RS485



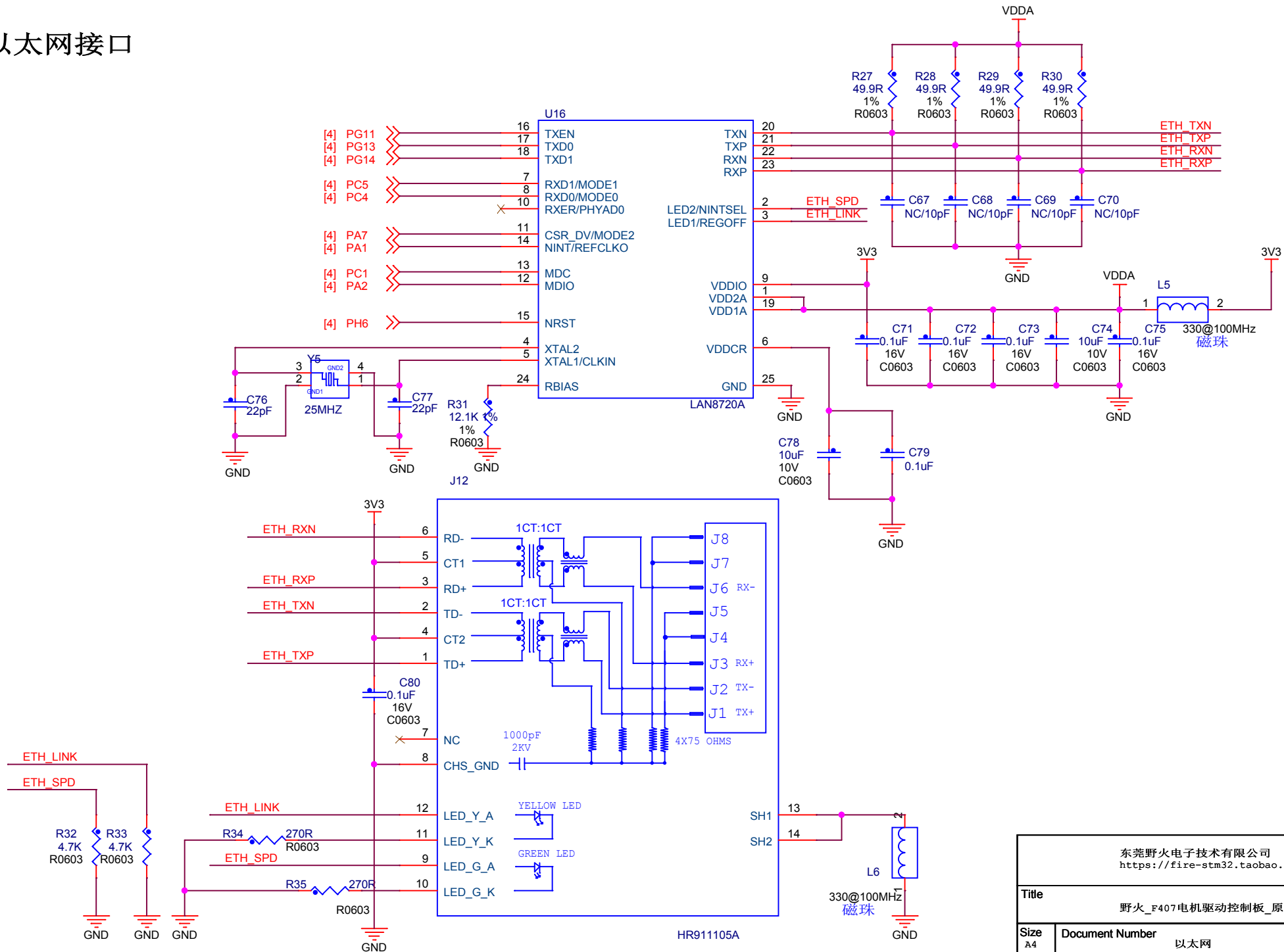
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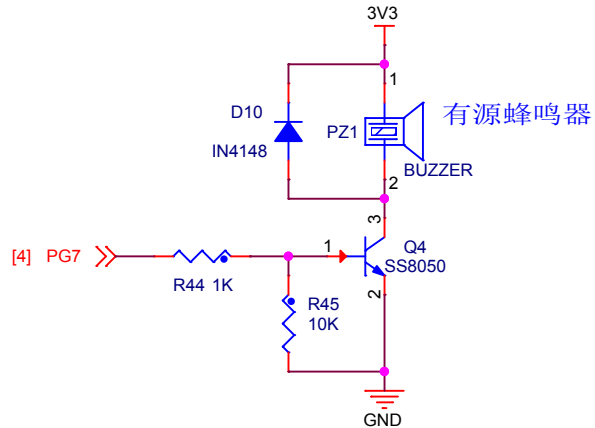
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以太网接口

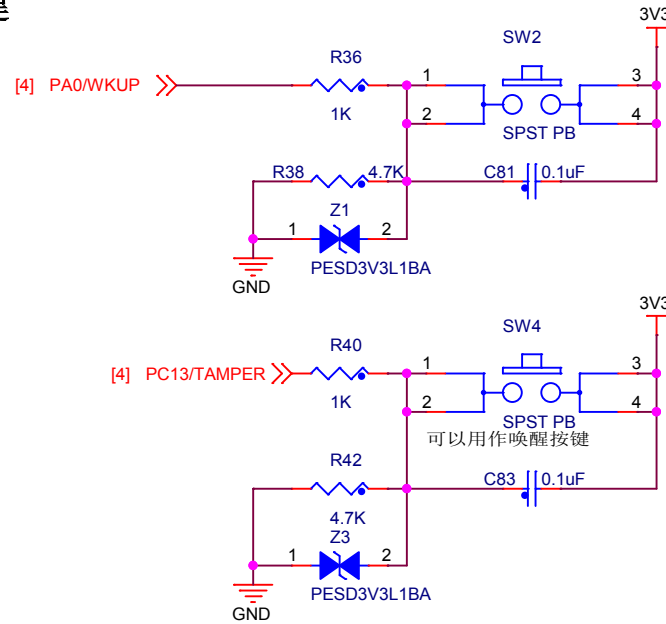


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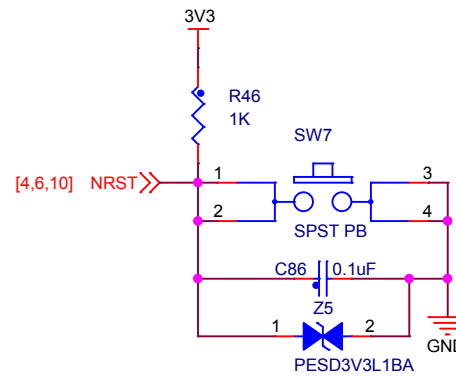
蜂鸣器



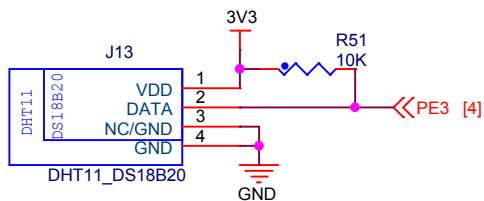
按键



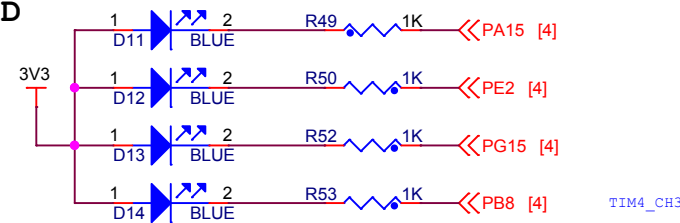
复位



温湿度传感器接口



LED



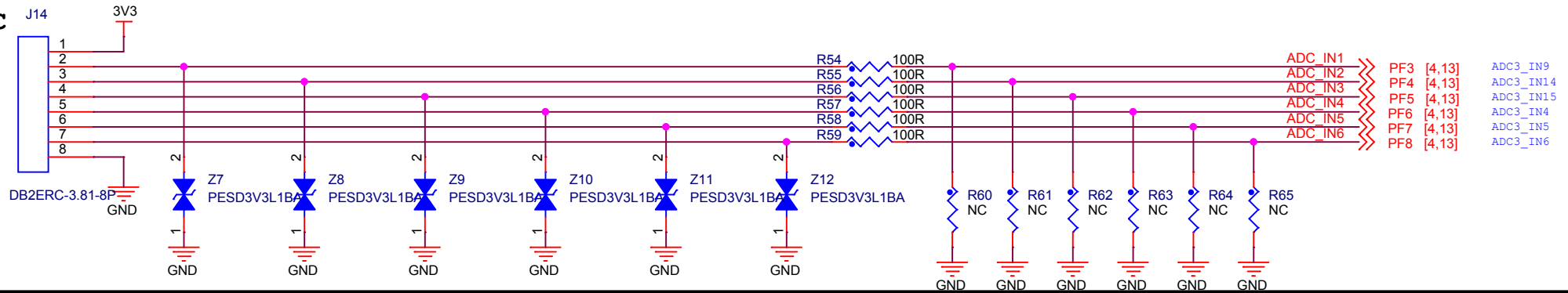
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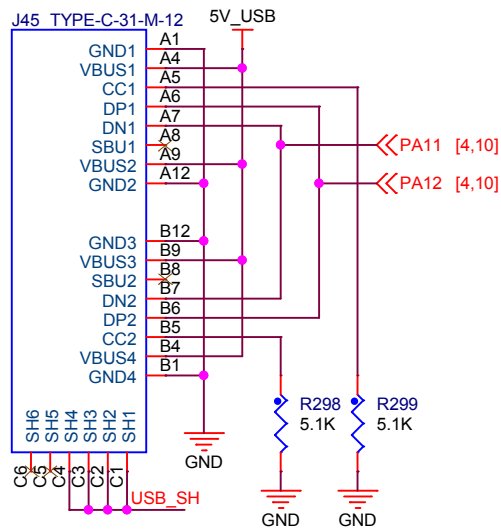
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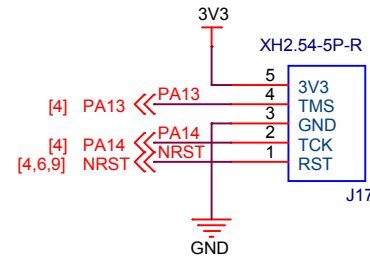
ADC



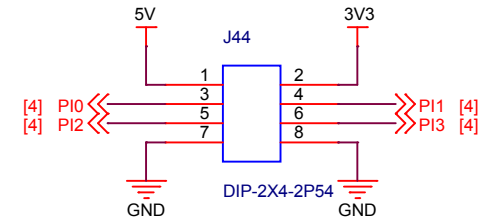
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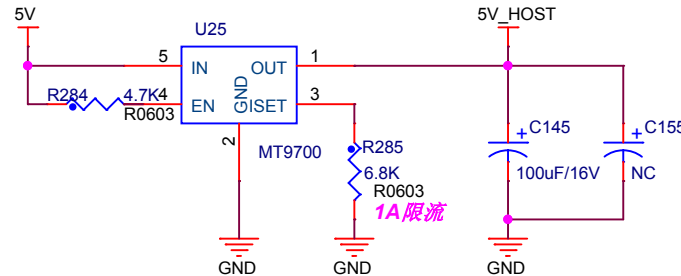
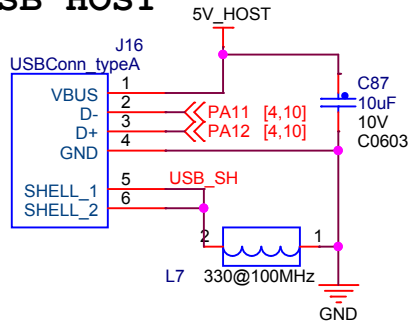
SWD调试口



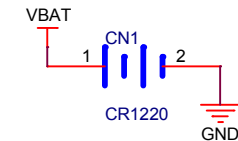
扩展SPI



USB HOST



RTC电池



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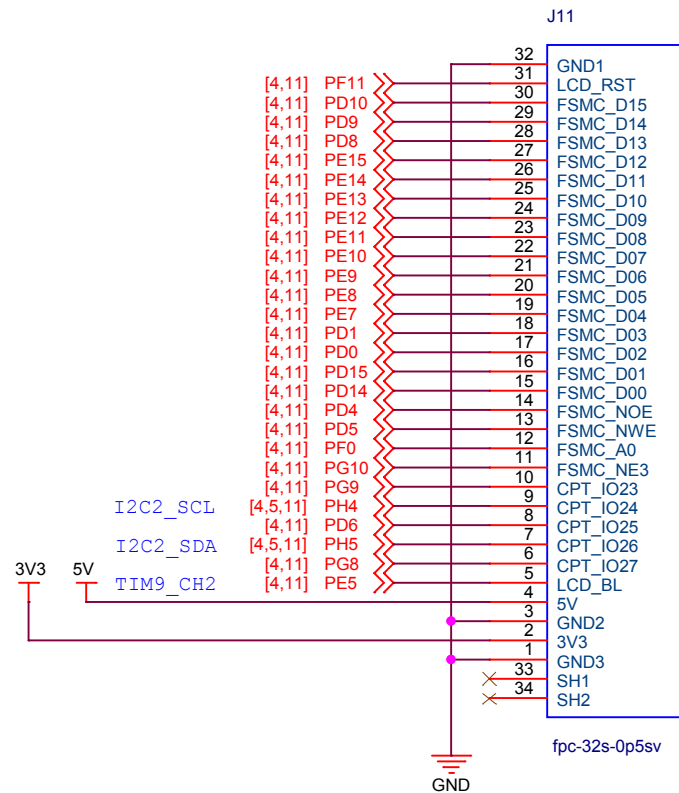
ADC/USB/SPI/SWD

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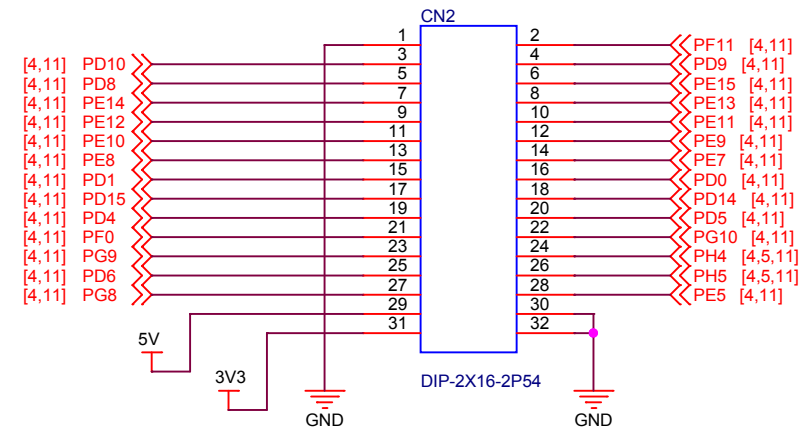
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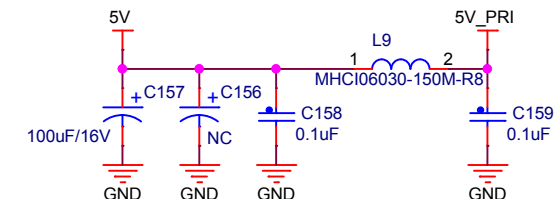
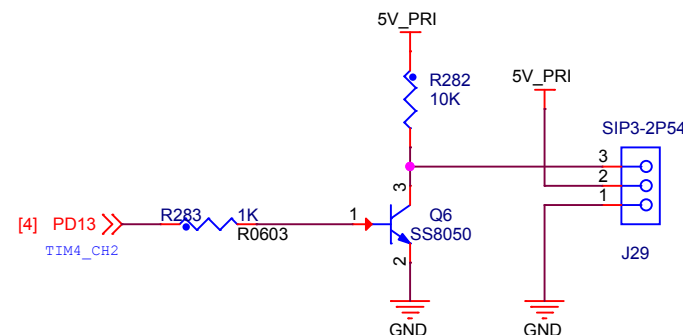
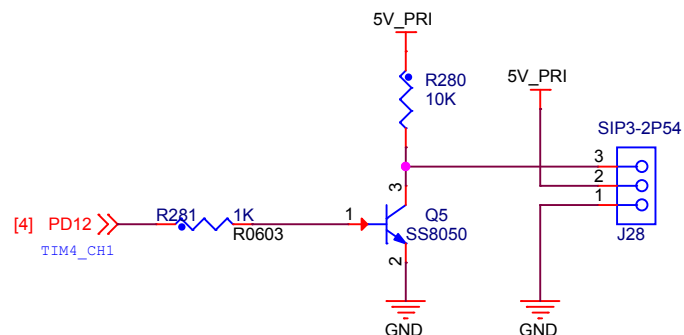
液晶接口-FSMC-8080模式



通用IO口与液晶复用



舵机驱动接口



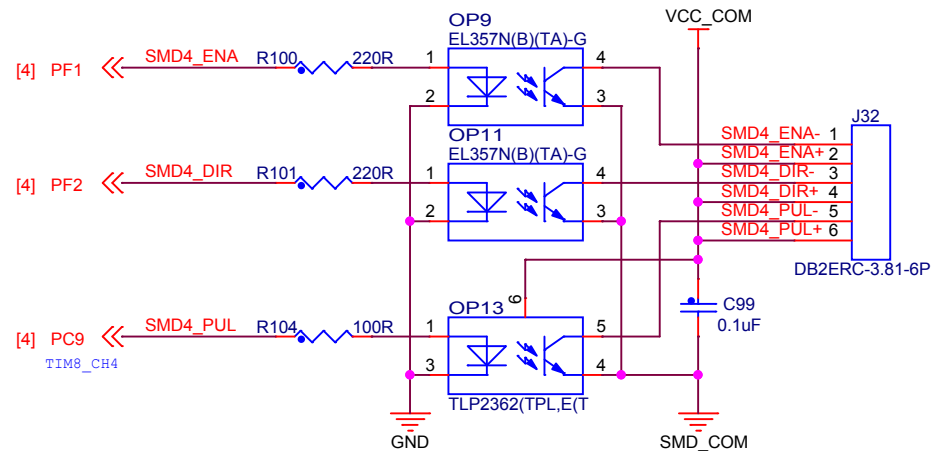
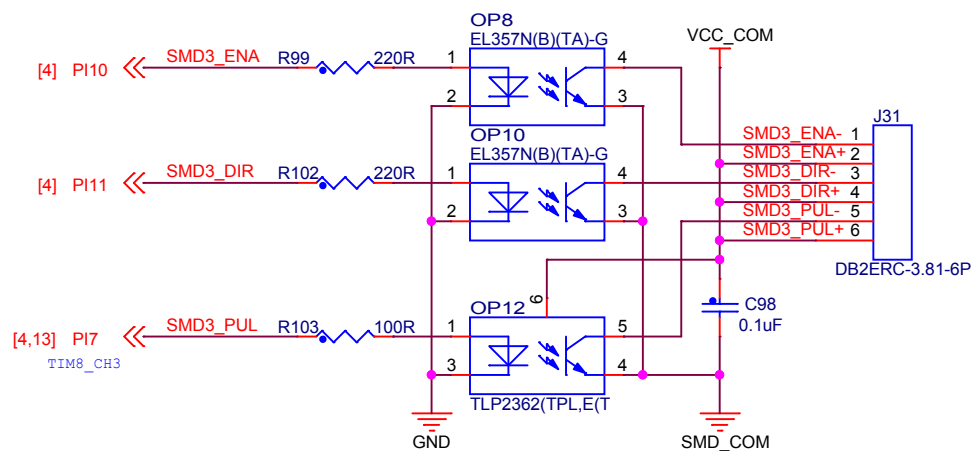
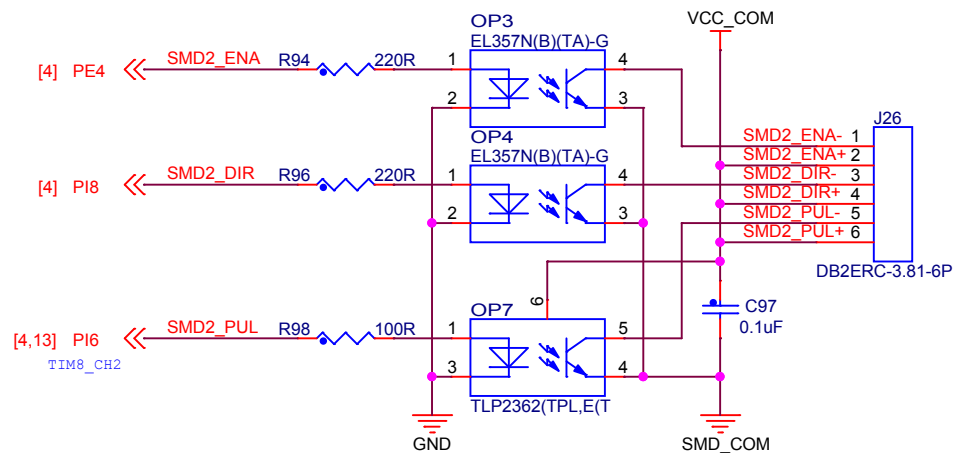
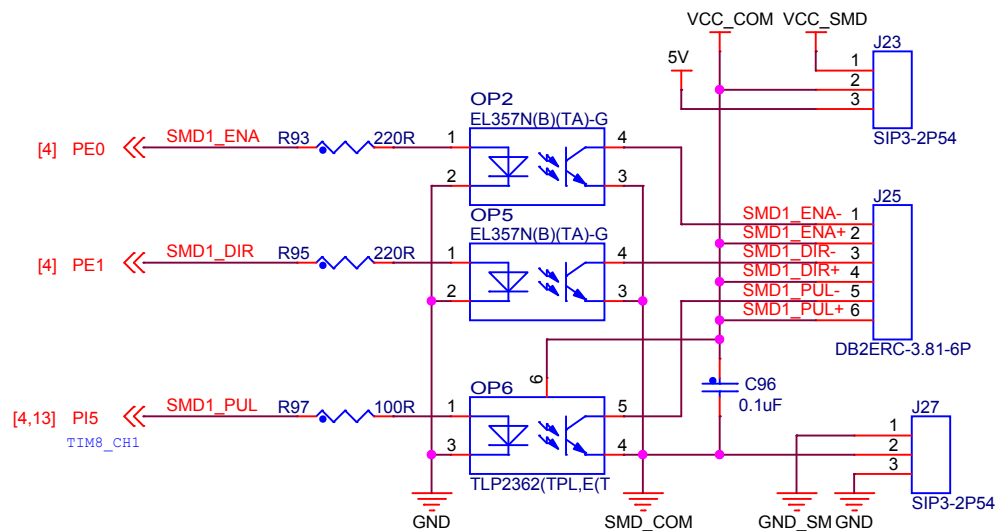
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四路步进电机驱动接口



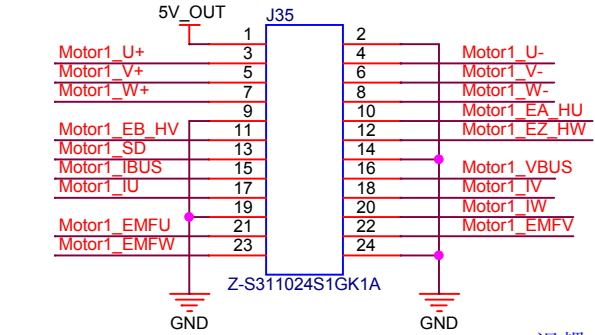
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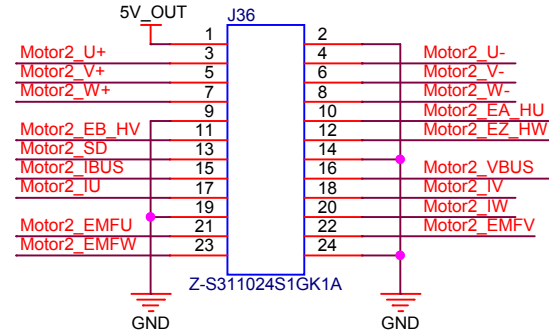
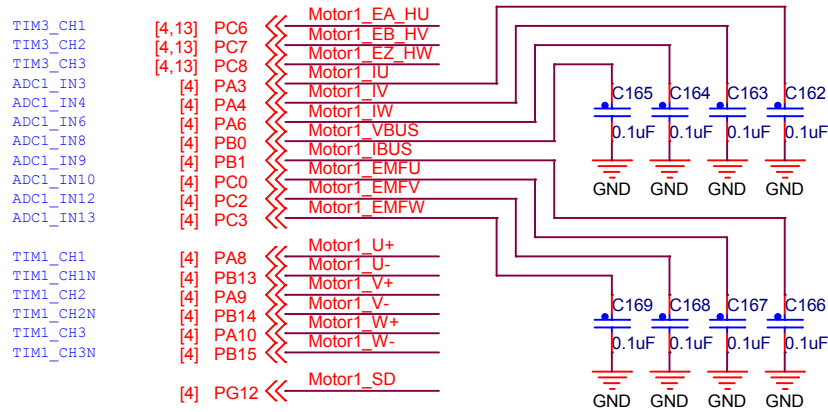
Size A4	Document Number 步进电机驱动接口	Rev V1.0
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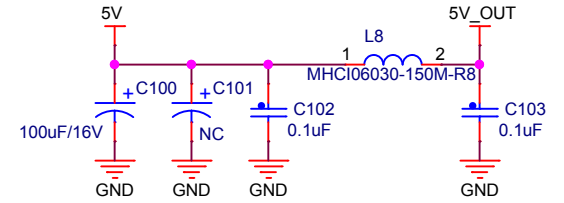
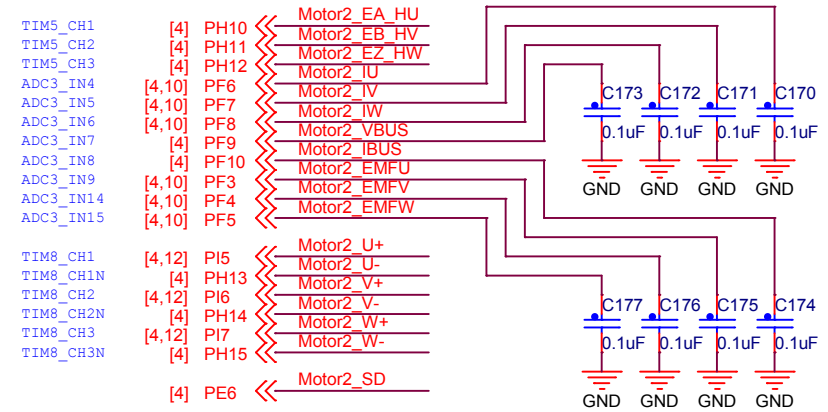
两路直流无刷电机/永磁同步电机驱动接口



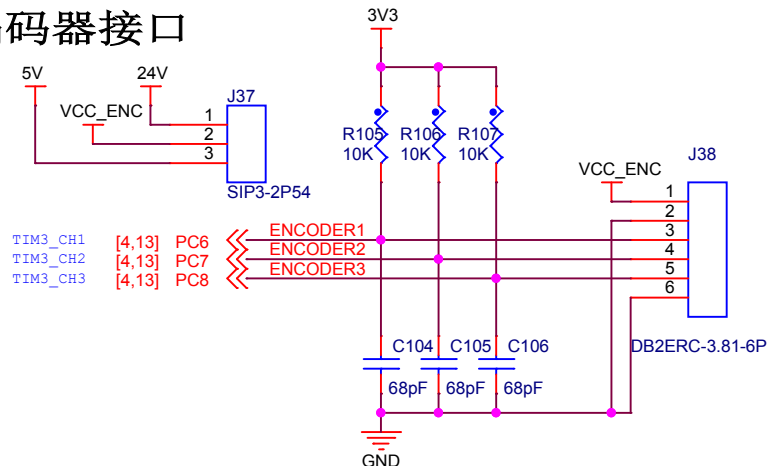
退耦电容靠近MCU放置



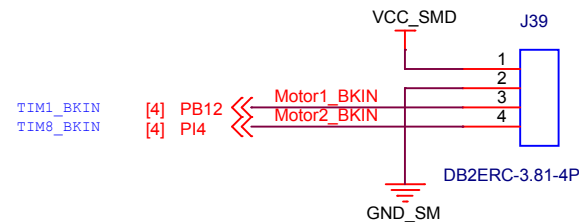
退耦电容靠近MCU放置



编码器接口



定时器刹车输入



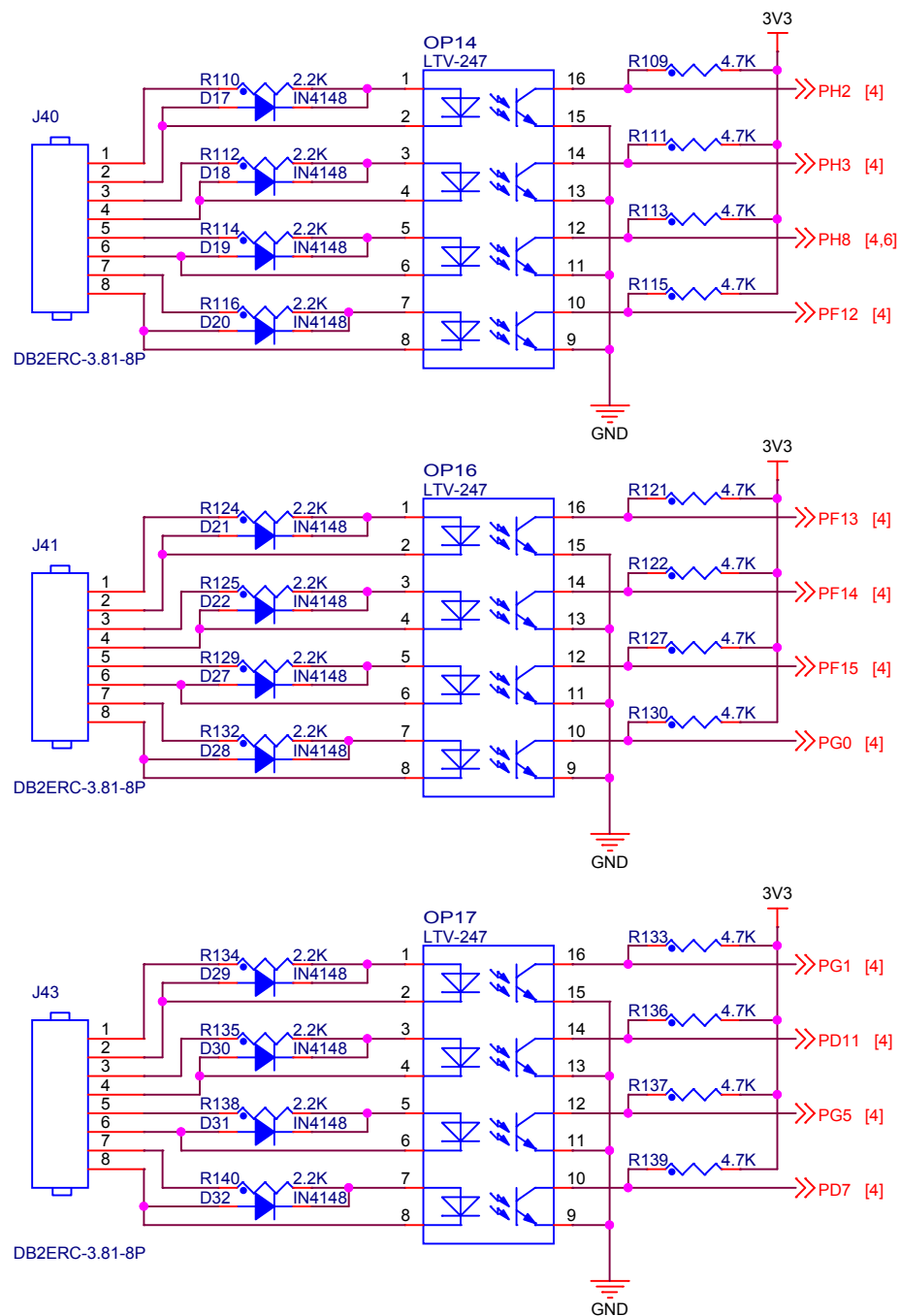
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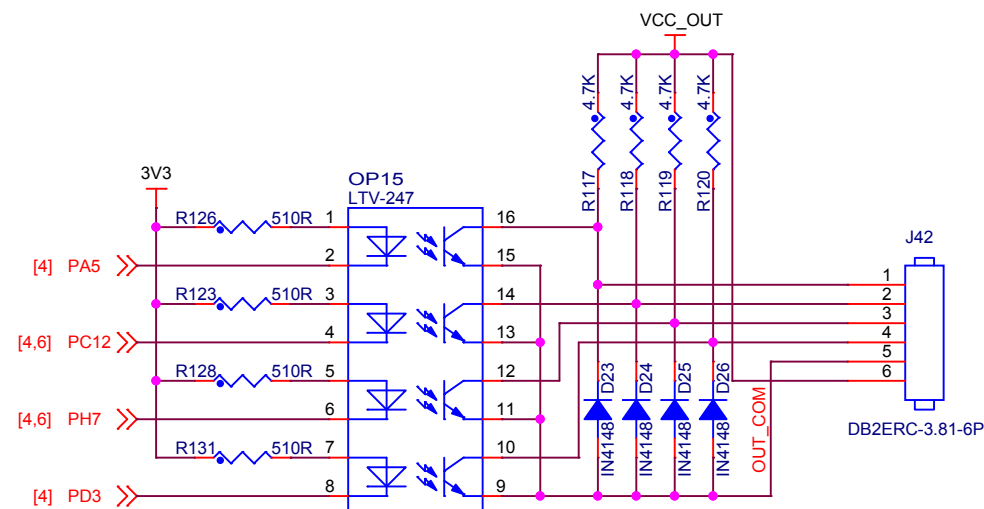
Size A4	Document Number BLDC/PMSM驱动接口	Rev V1.0
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通用输入接口



通用输出接口



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