

野火_H743电机驱动控制板_原理图_V0.1

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Title
野火_H743电机驱动控制板_原理图

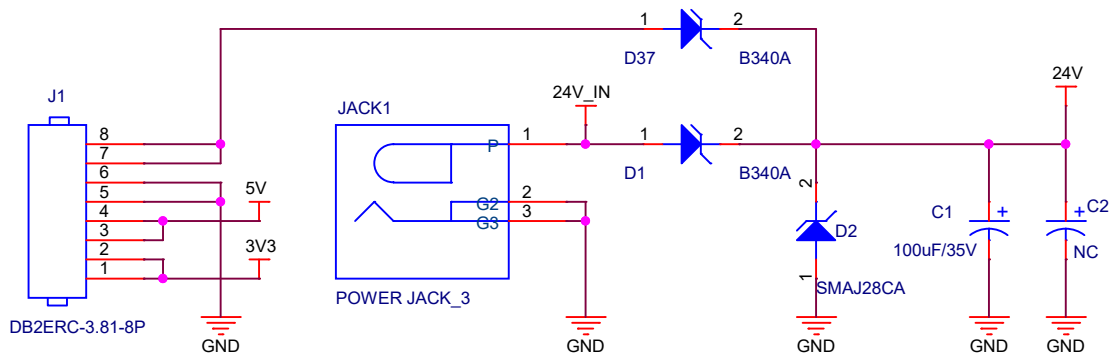
Size A4	Document Number 目录	Rev V0.1
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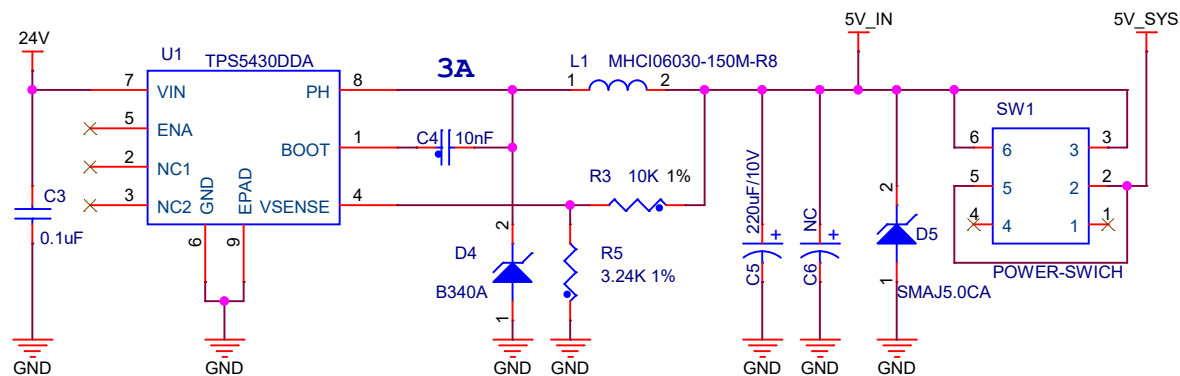
历史版本

版本号	日期	设计	描述
V0.1	2020-06-29	xgh	初始版本

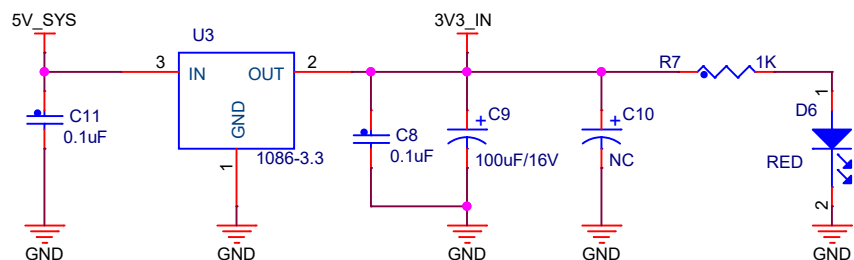
DC IN : 12V~24V



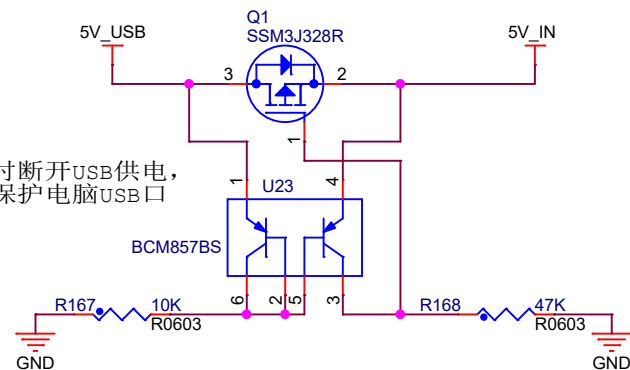
DC/DC 5V



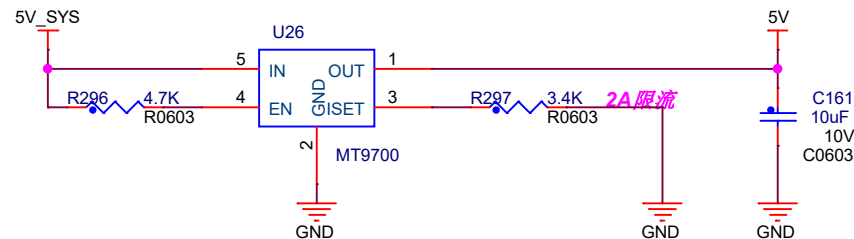
LDO 3.3V



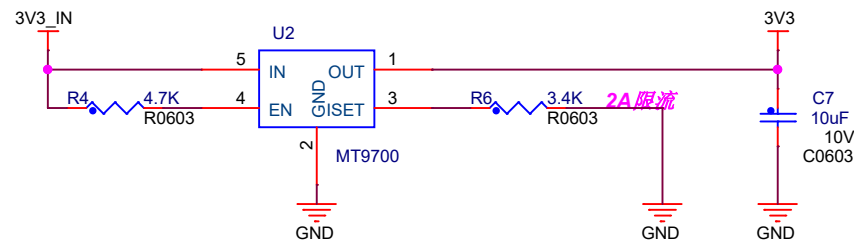
外部电源供电时断开USB供电，
防止灌电流，保护电脑USB口



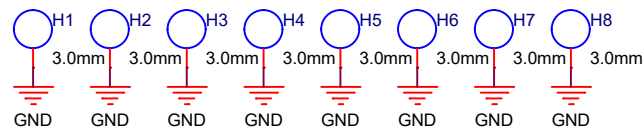
5V 输出过流保护



3.3V 输出过流保护



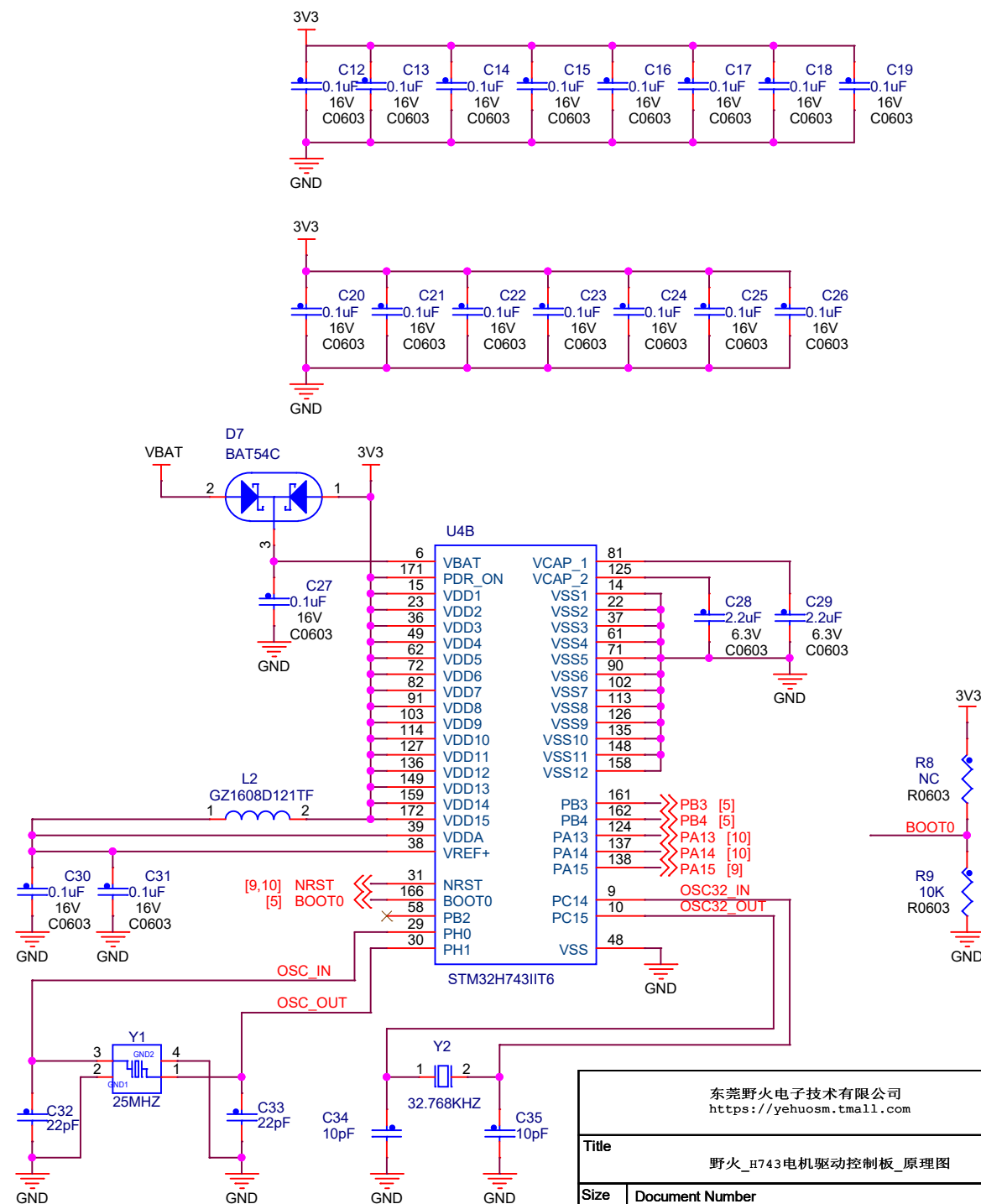
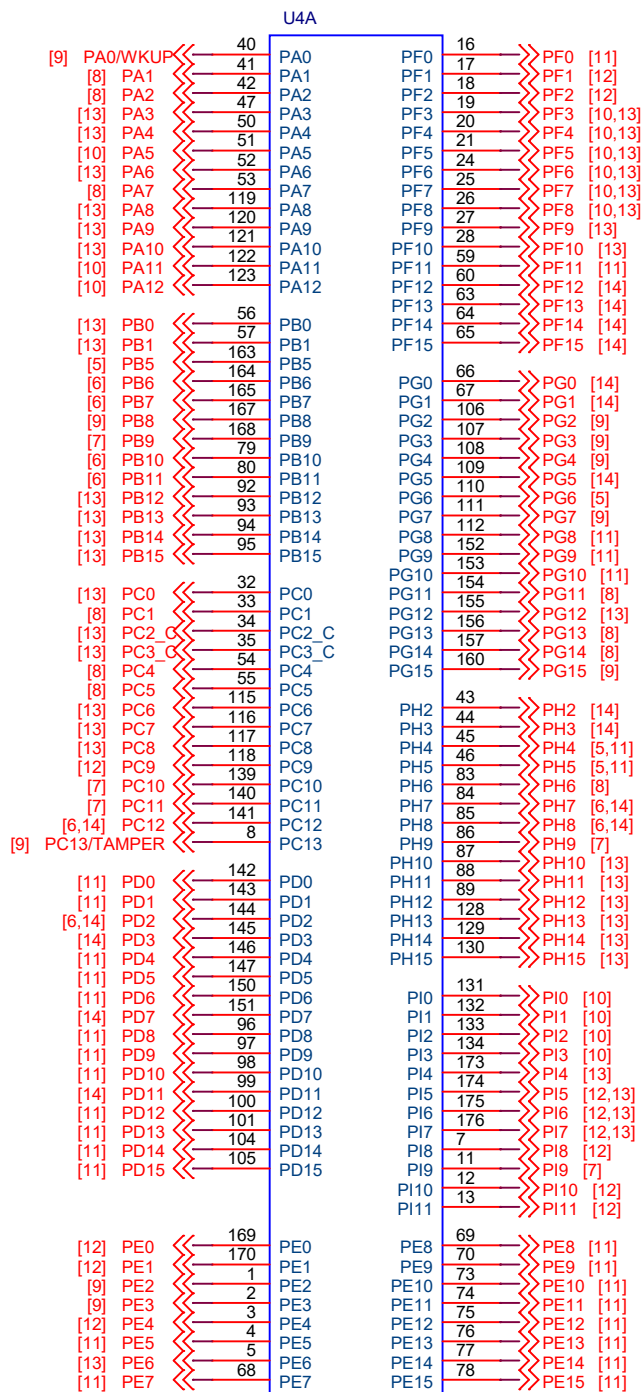
定位孔



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野火_H743电机驱动控制板_原理图		
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MCU

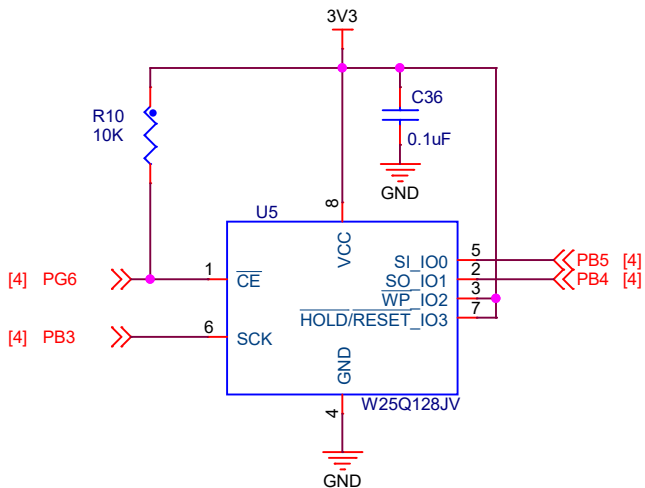


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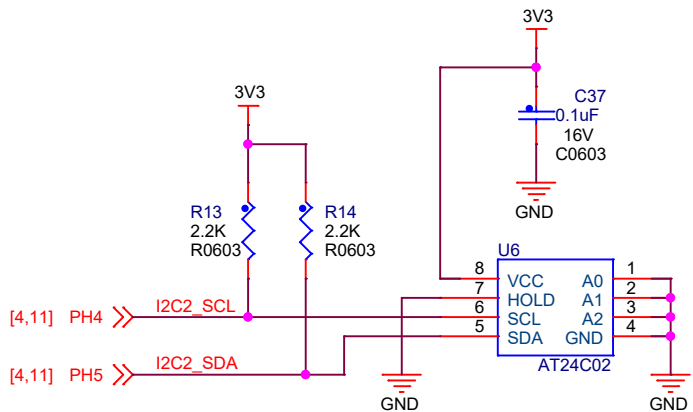
SPI_FLASH

容量: 16M字节



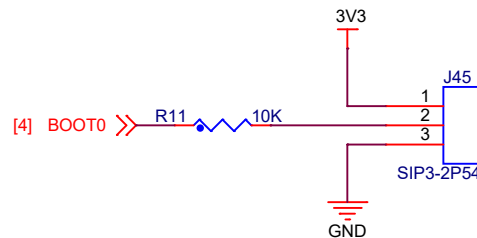
EEPROM

容量: 256字节



设置启动模式

自举模式选择		自举区域
BOOT0	自举地址选项字节	
0	BOOT_ADD0[15:0]	启动地址由用户选择字节 BOOT_ADD0[15:0] ST 编程值定义:Flash 位于0x0800 0000
1	BOOT_ADD1[15:0]	启动地址由用户选择字节 BOOT_ADD1[15:0] ST 编程值定义:系统自举程序位于0x1FF0 0000



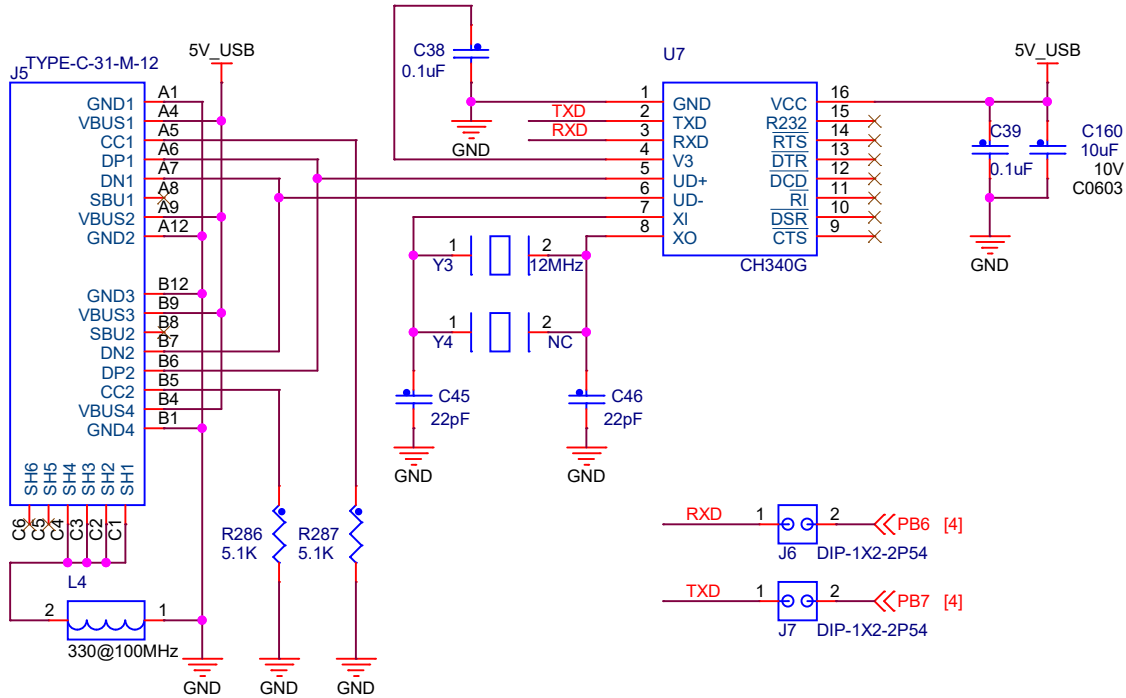
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Title
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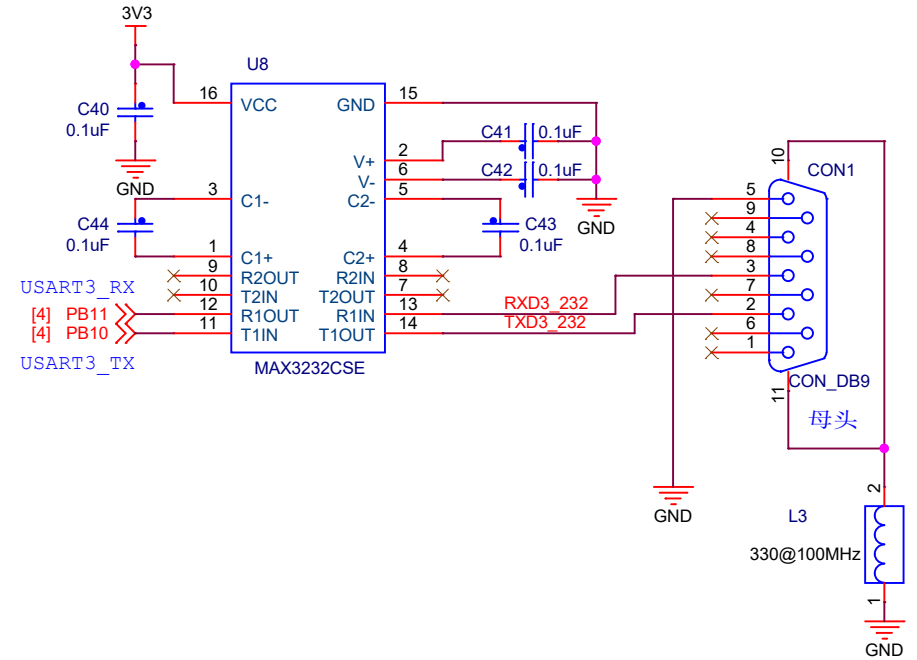
Size A4	Document Number FLASH/EEPROM/BOOT	Rev V0.1
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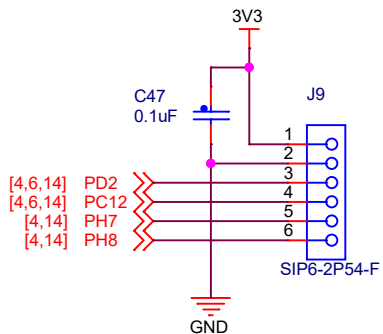
USB转串口



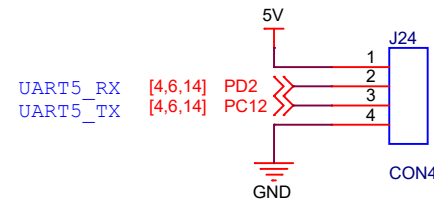
RS232串口



EBF-Module



串口屏接口



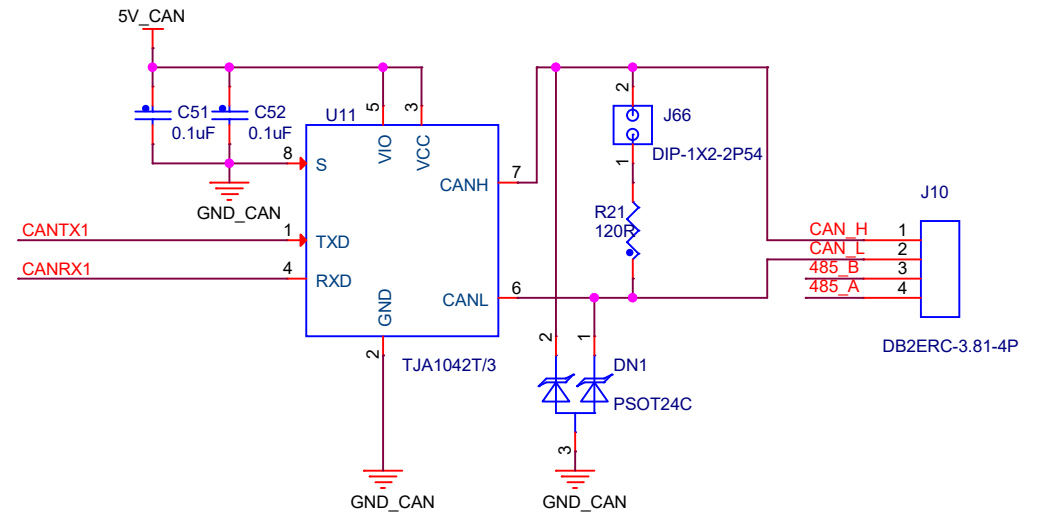
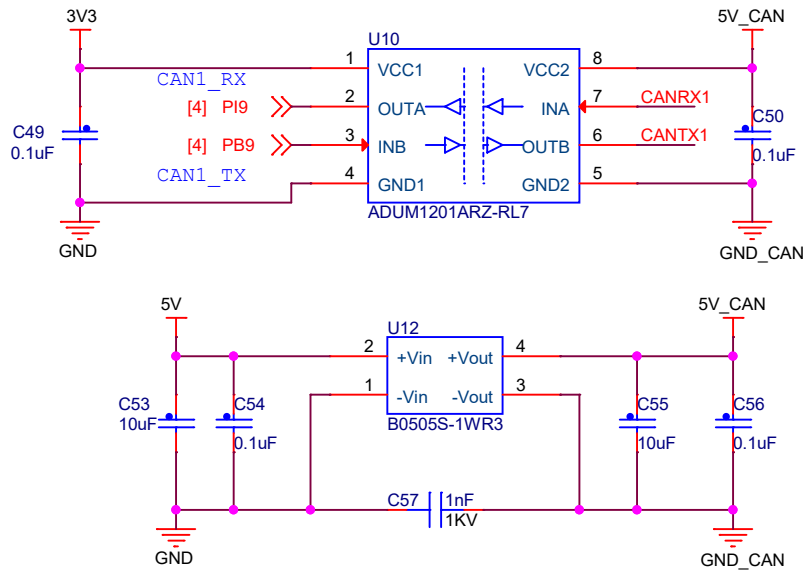
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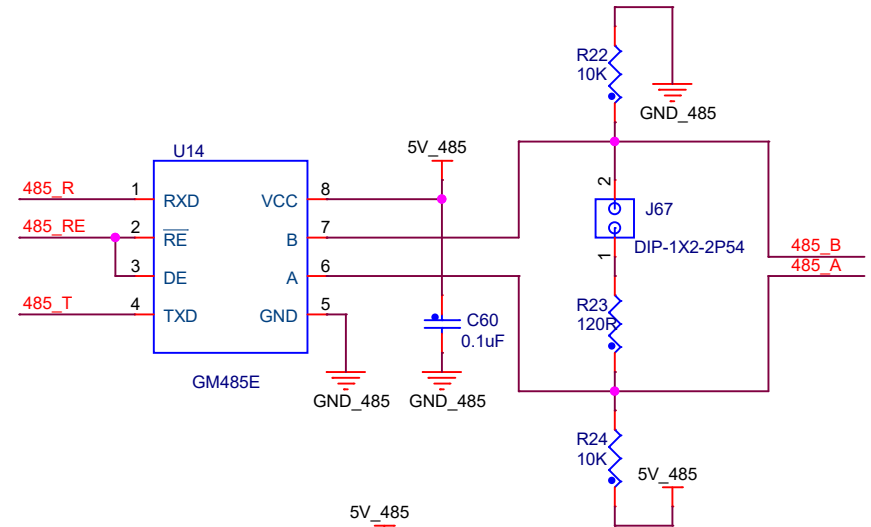
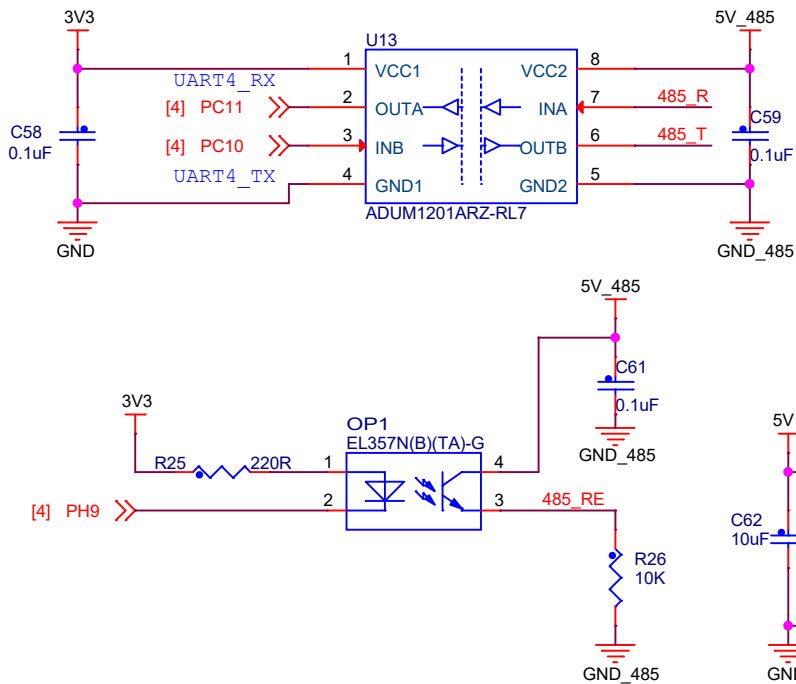
Size A4 Document Number UART/ISP/RS232 Rev V0.1

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CAN



RS485



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Document Number

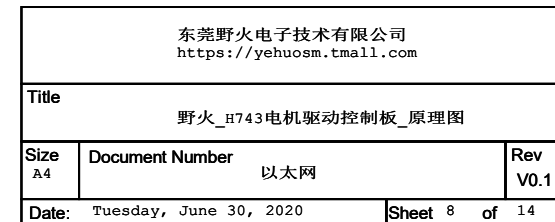
CAN/RS485

Rev
V0.1

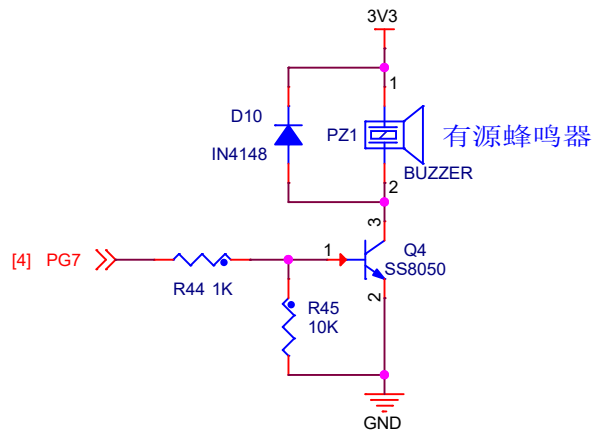
Date: Tuesday, June 30, 2020

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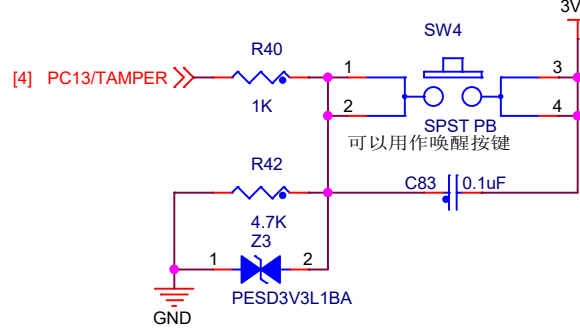
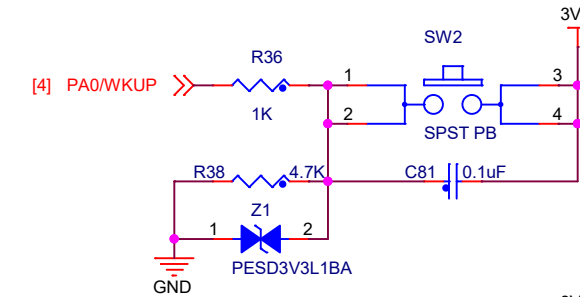
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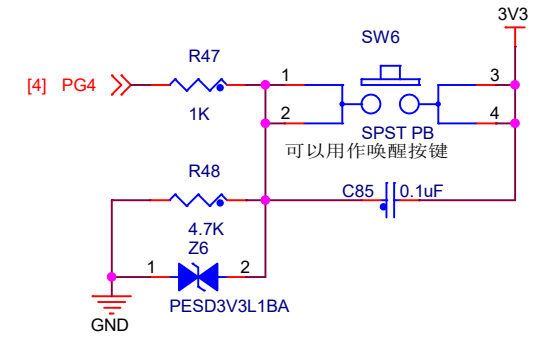
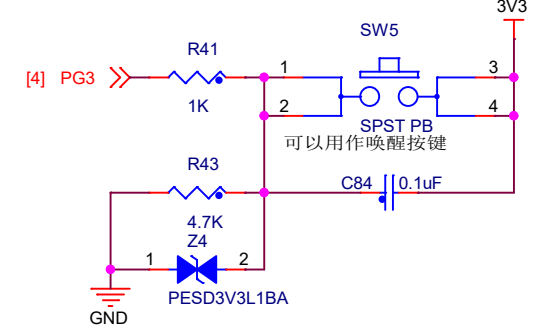
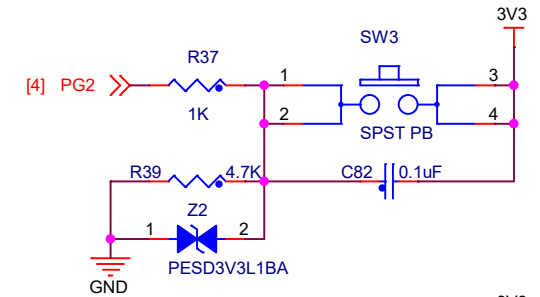
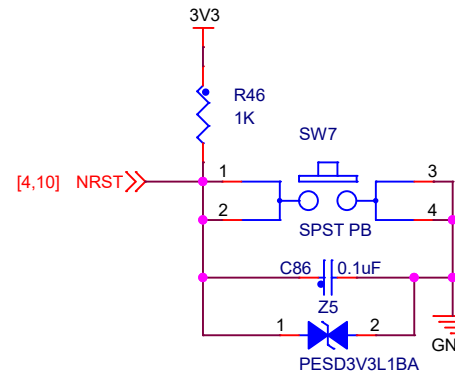
蜂鸣器



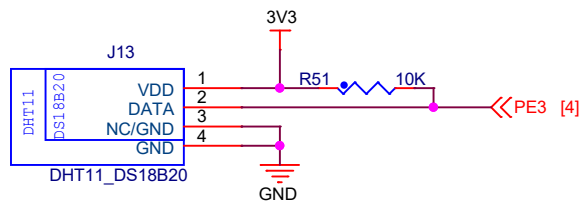
按键



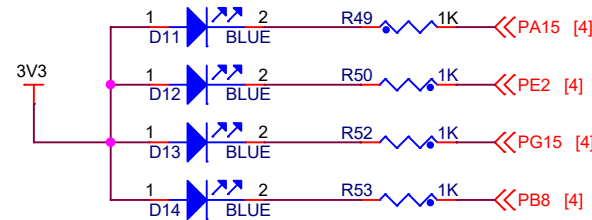
复位



温湿度传感器接口



LED



TIM4_CH3

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Title

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A4

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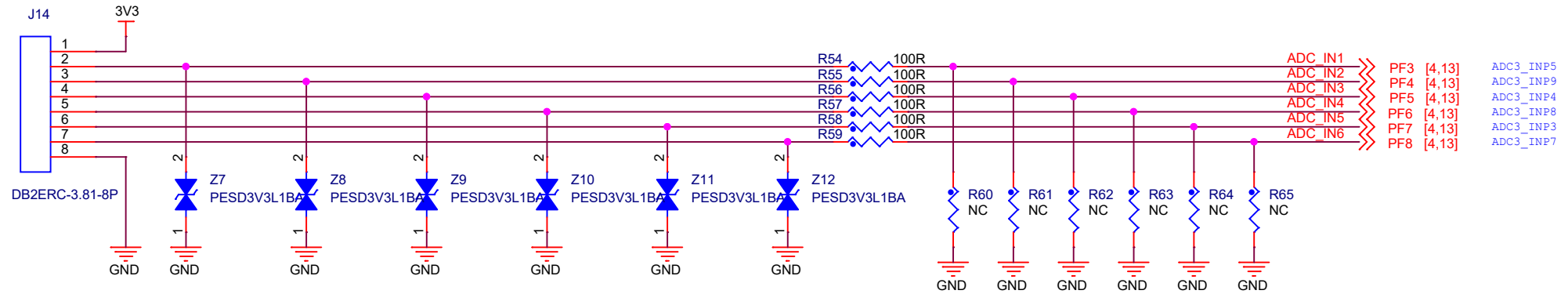
KEY/LED/BEEP/SENSOR

Rev
V0.1

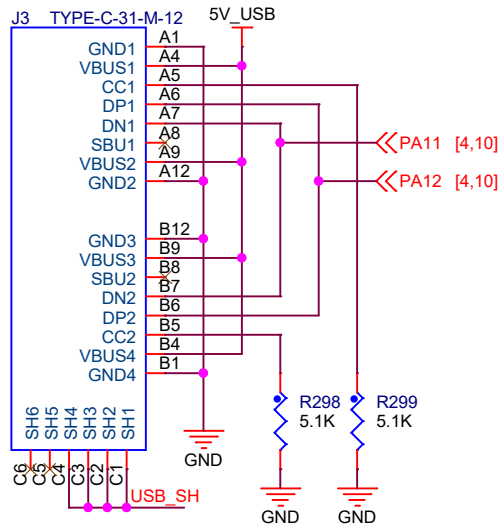
Date: Tuesday, June 30, 2020

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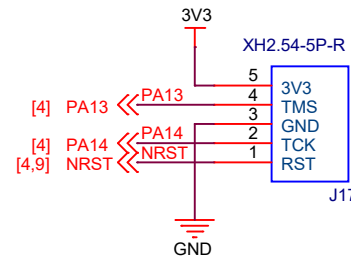
ADC



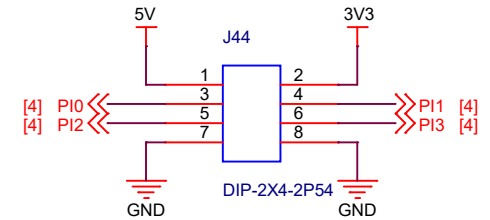
USB DEVICE



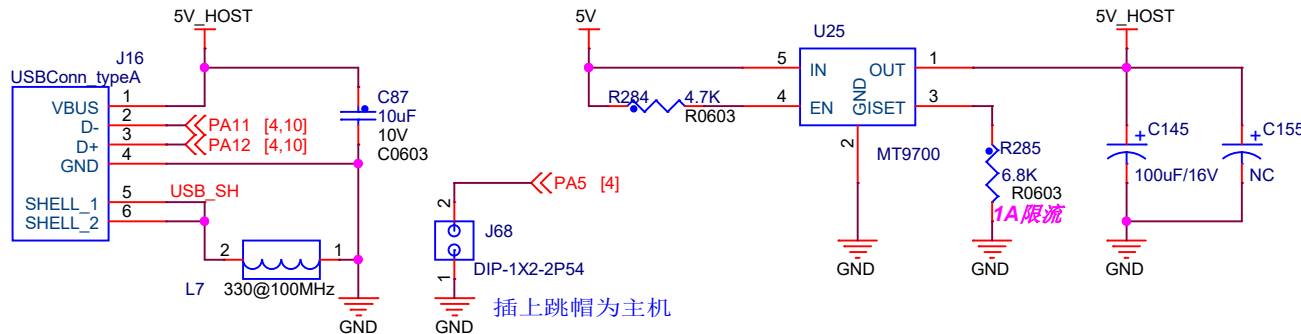
SWD调试口



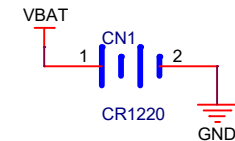
扩展SPI



USB HOST



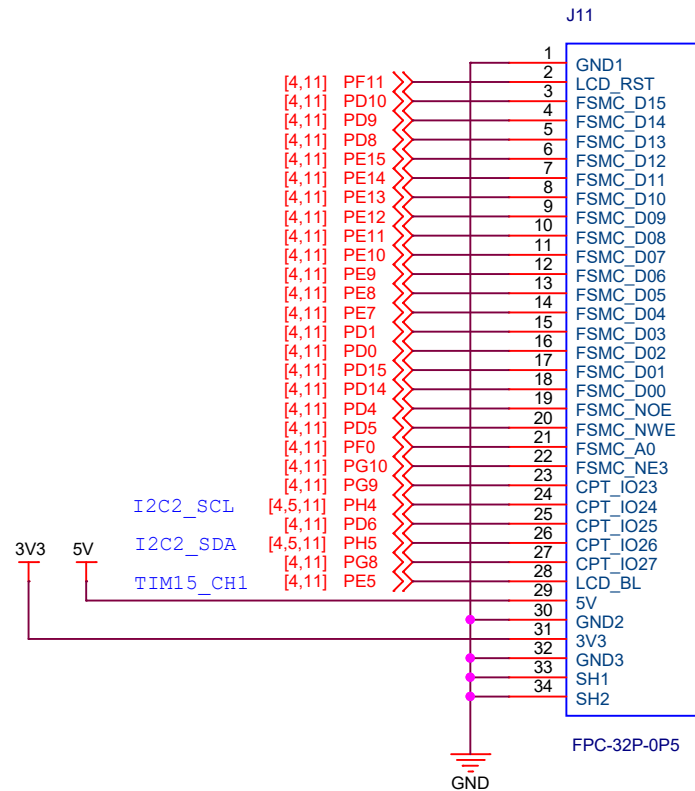
RTC电池



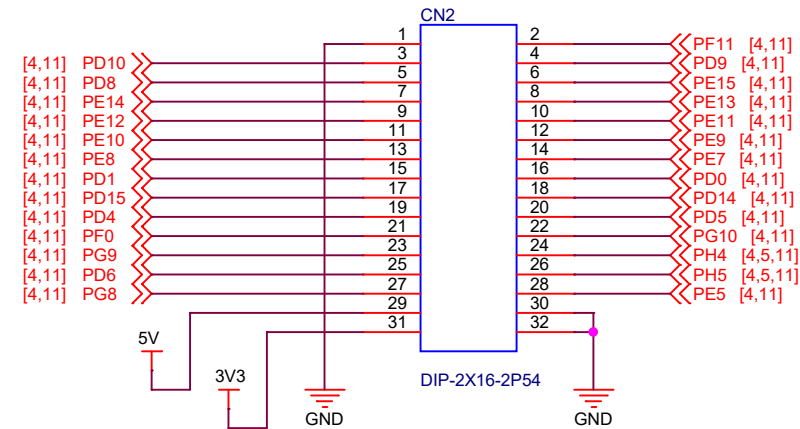
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Size A4	Document Number ADC/USB/SPI/SWD	Rev V0.1
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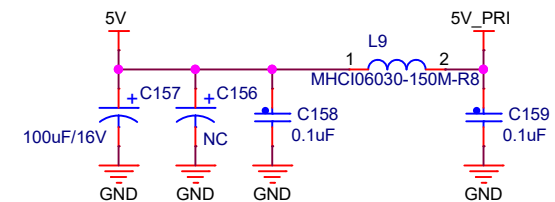
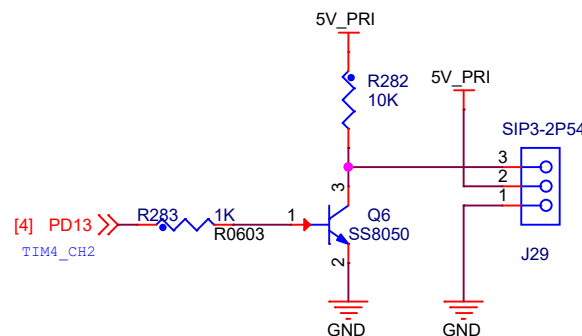
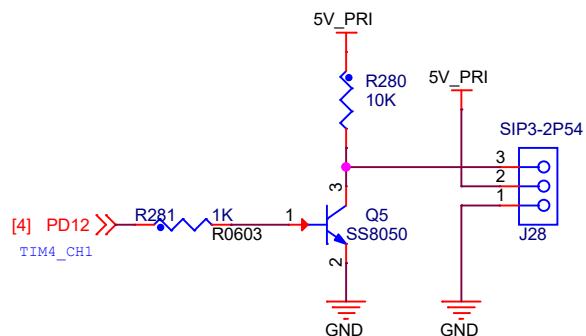
液晶接口-FSMC-8080模式



通用IO口与液晶复用



舵机驱动接口



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Document Number

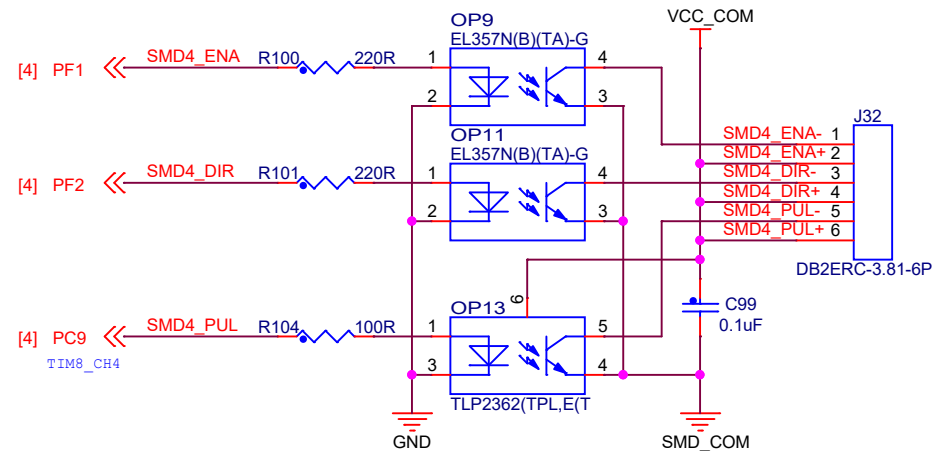
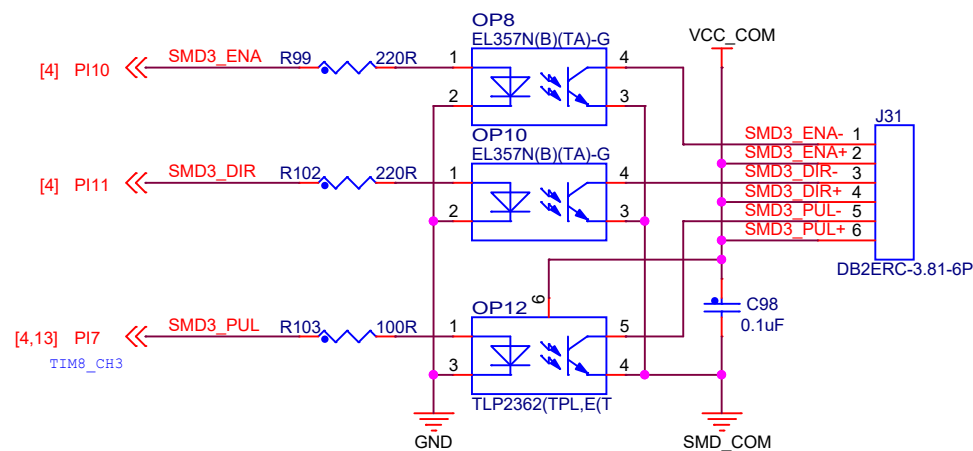
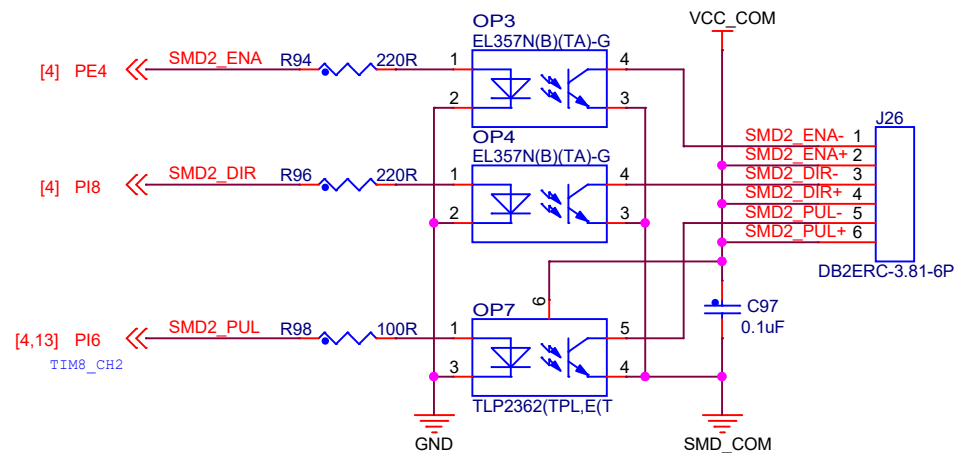
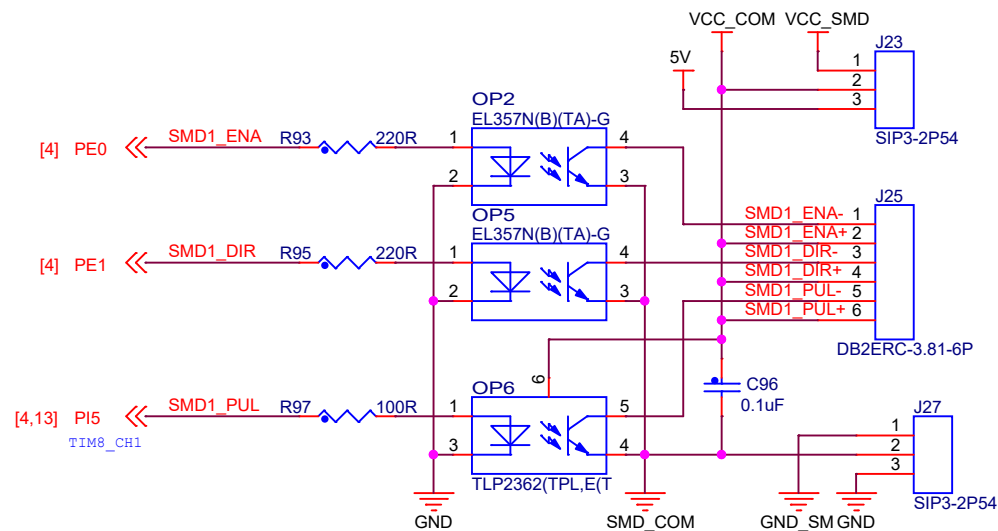
LCD

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四路步进电机驱动接口



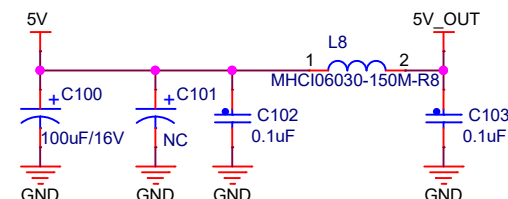
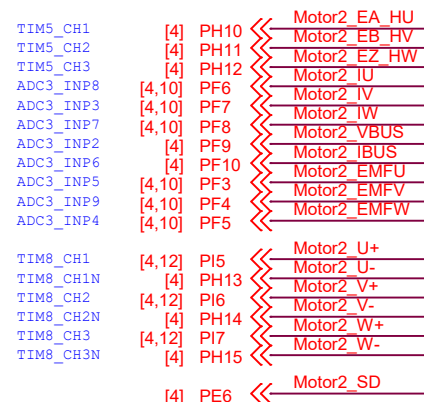
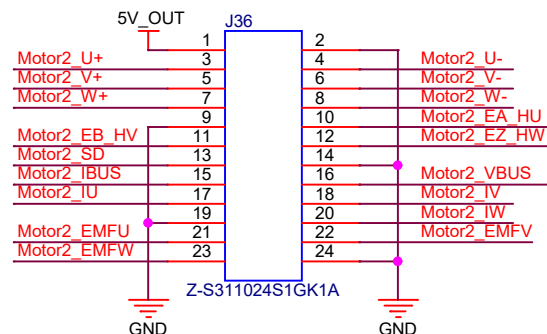
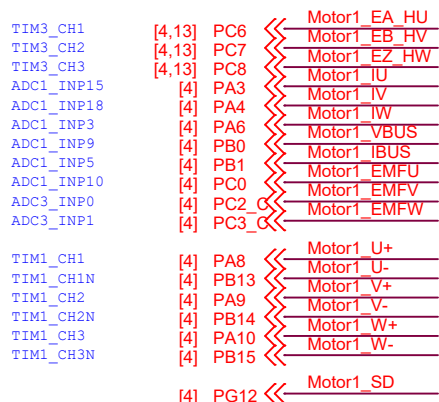
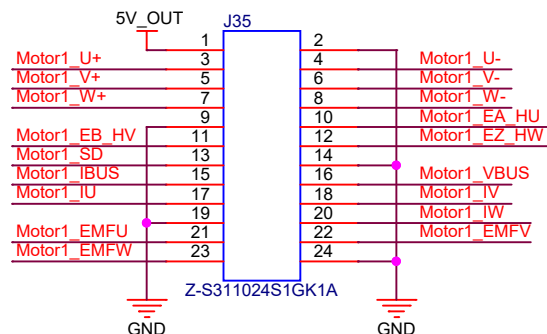
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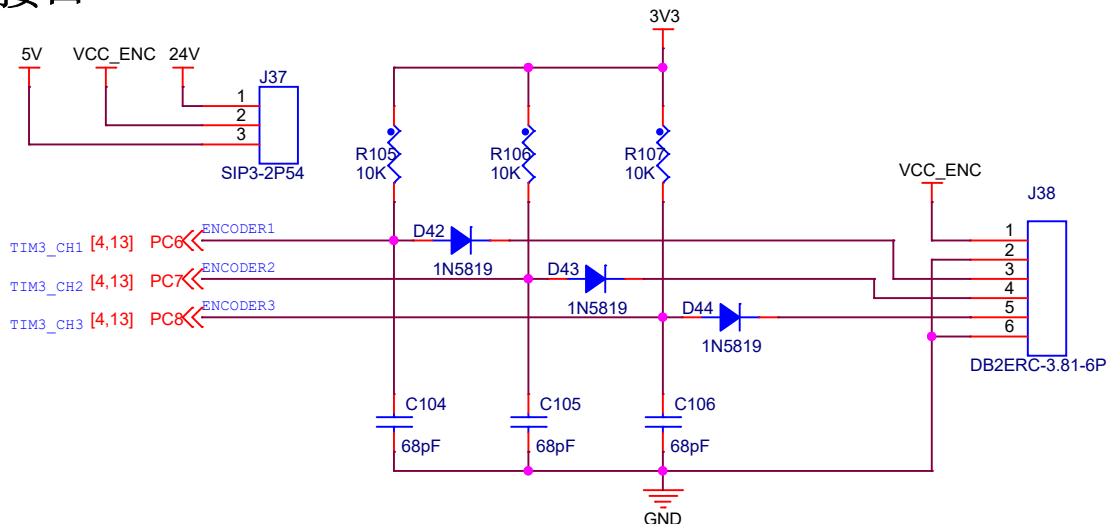
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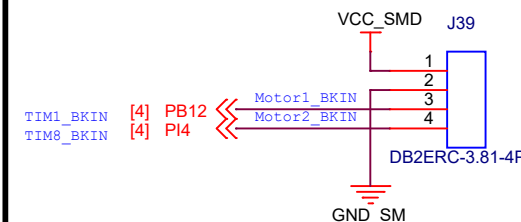
两路直流无刷电机/永磁同步电机驱动接口



编码器接口



定时器刹车输入



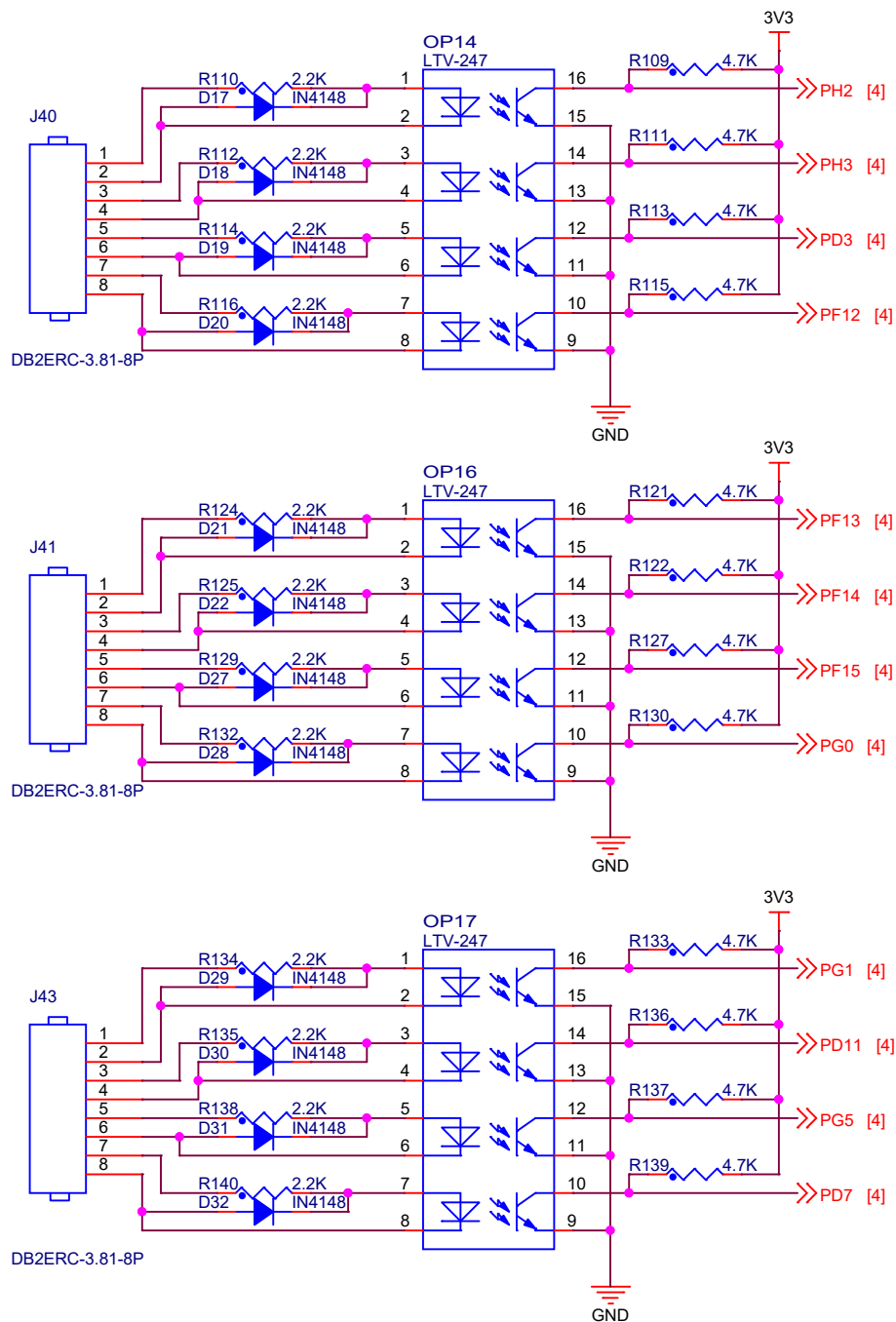
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Title
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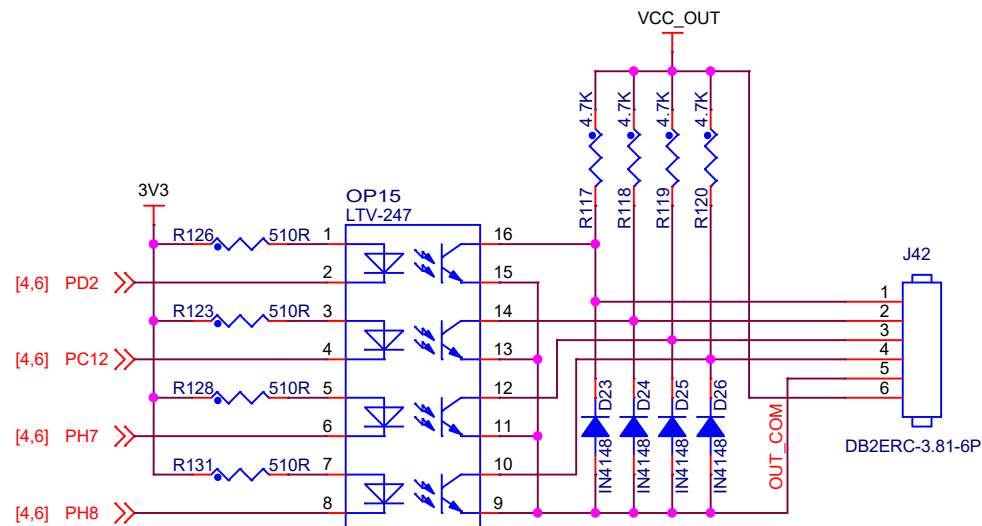
Size A4	Document Number BLDC/PMSM驱动接口	Rev V0.1
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通用输入接口



通用输出接口



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