

# 野火STM32F429/F767/H743底板原理图\_V2.0

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Title  
野火STM32F429/F767/H743底板原理图

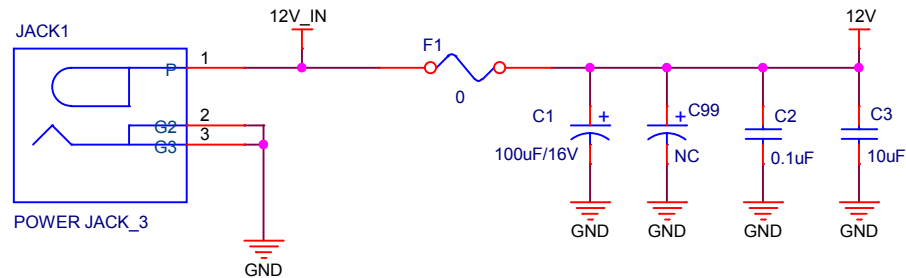
Size A4	Document Number 目录	Rev V2.0
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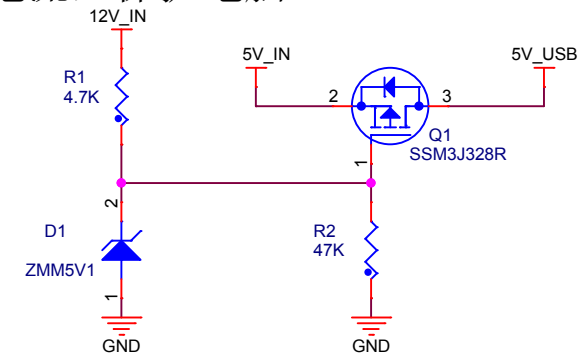
历史版本

版本号	日期	设计	描述
V1.0	2018-11-30	cancore	初始版本
V2.0	2019-03-12	cancore	增加SWD接口，增加一个EBF-Module接口

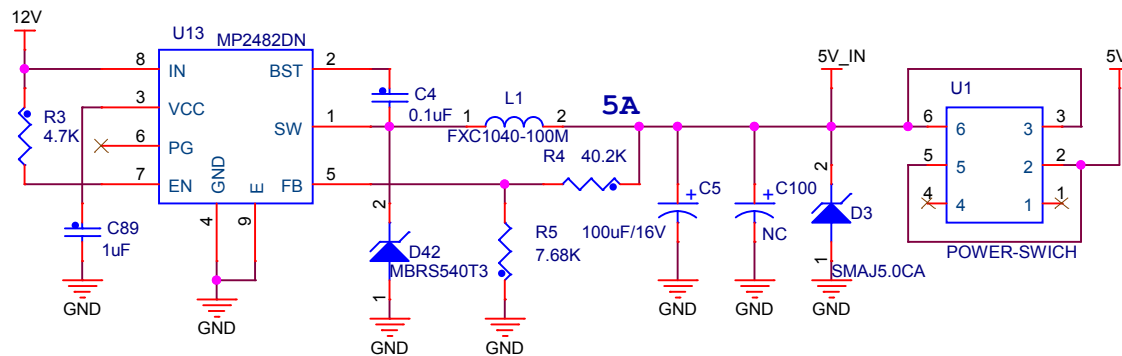
## DC IN : 6V~12V



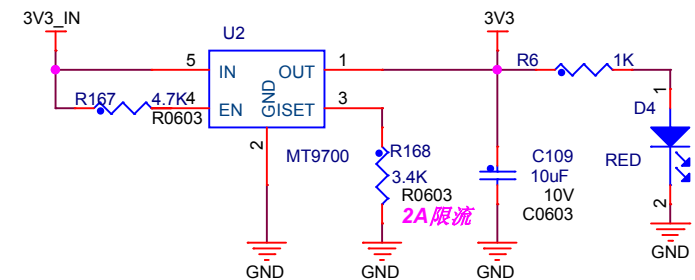
外部电源供电时断开USB供电，  
防止灌电流，保护电脑USB口



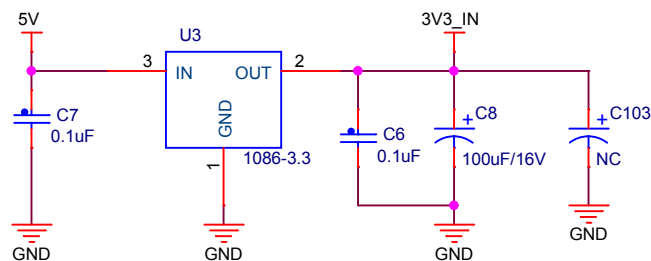
## DC/DC 5V



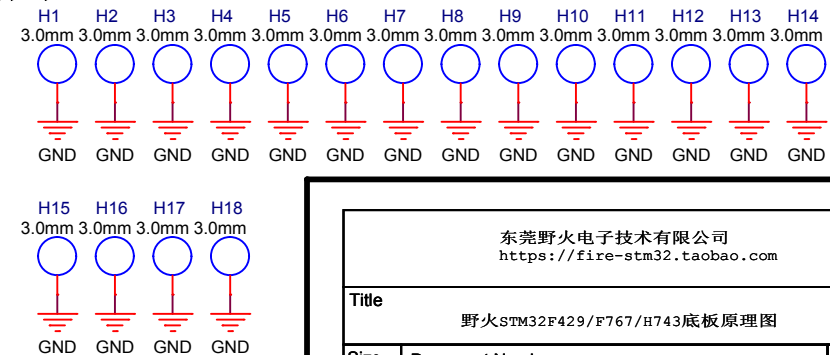
## 3.3v 输出过流保护



## LDO 3.3V



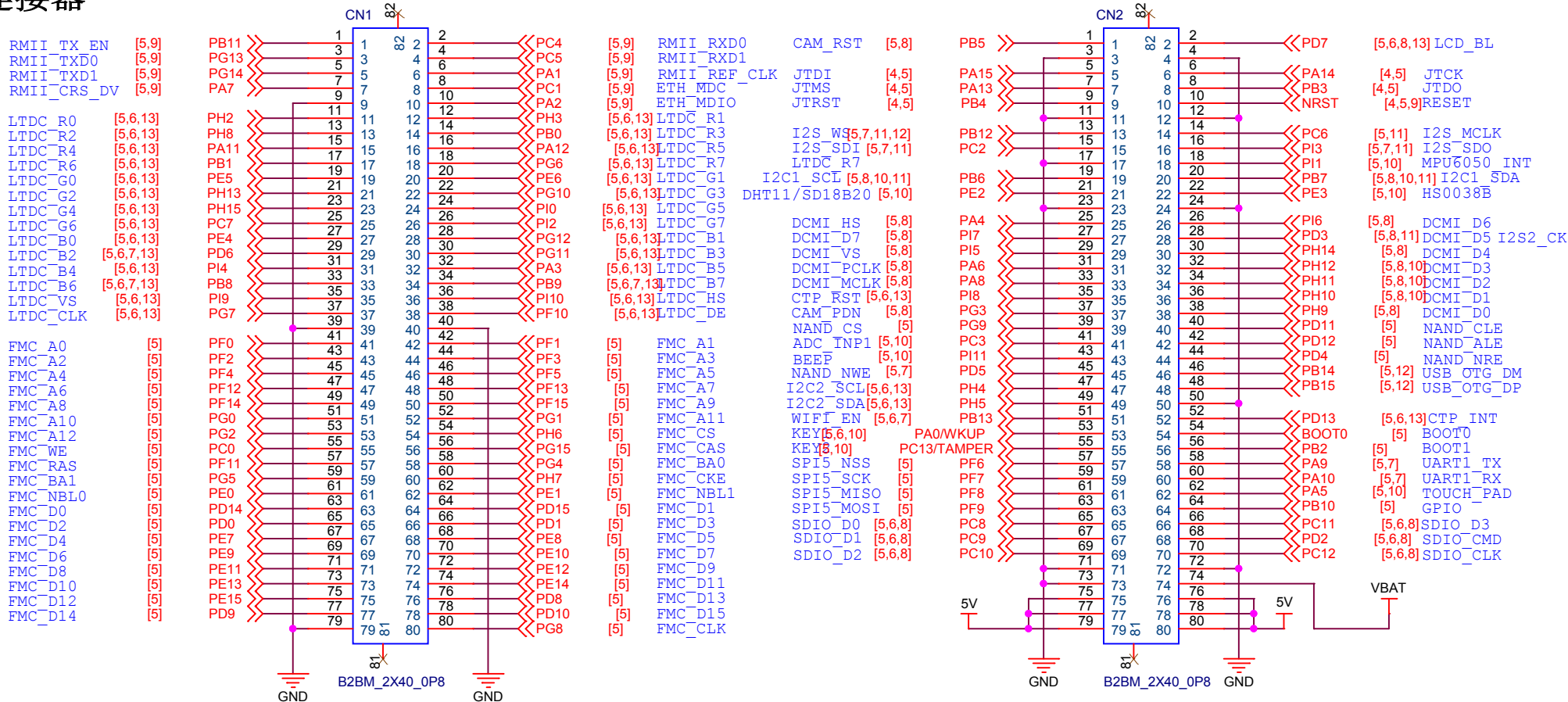
## 定位孔



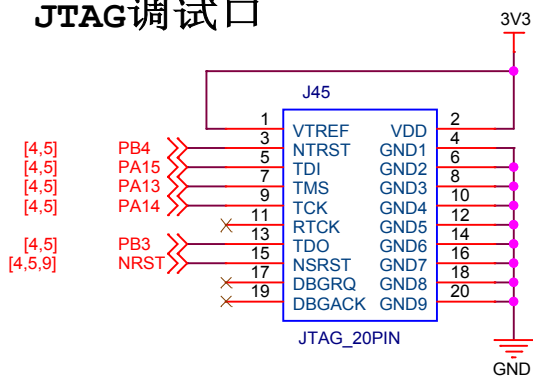
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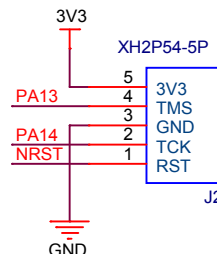
# 连接器



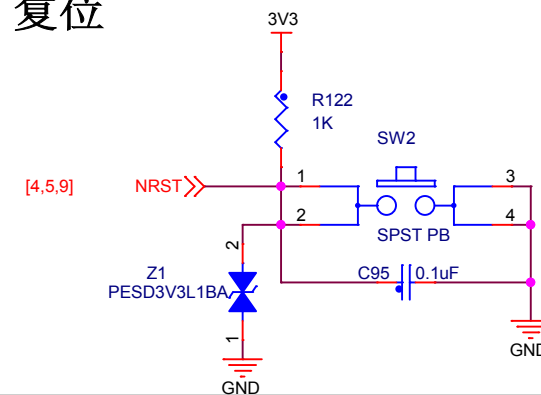
## JTAG调试口



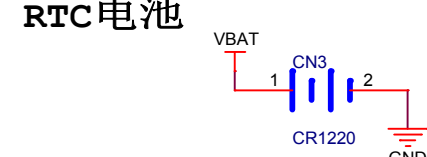
## SWD调试口



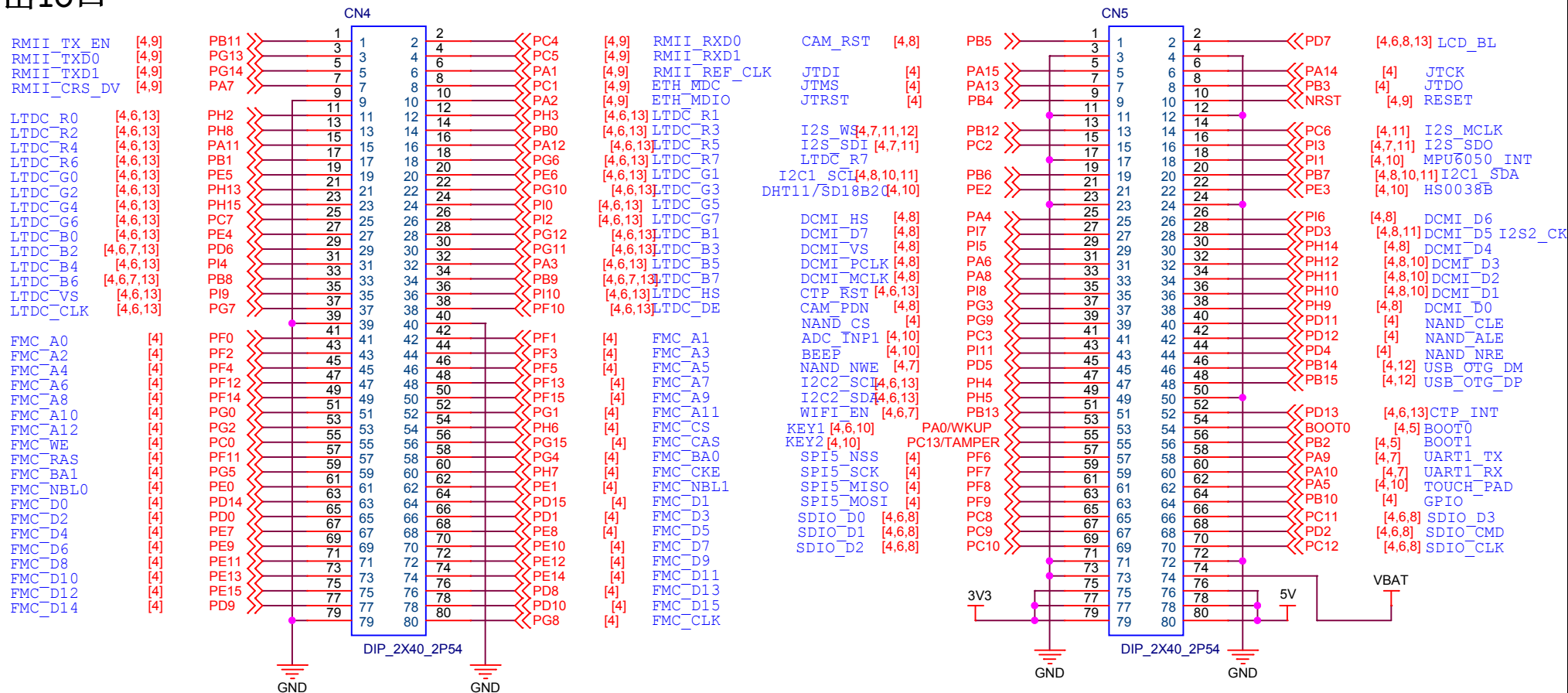
## 复位



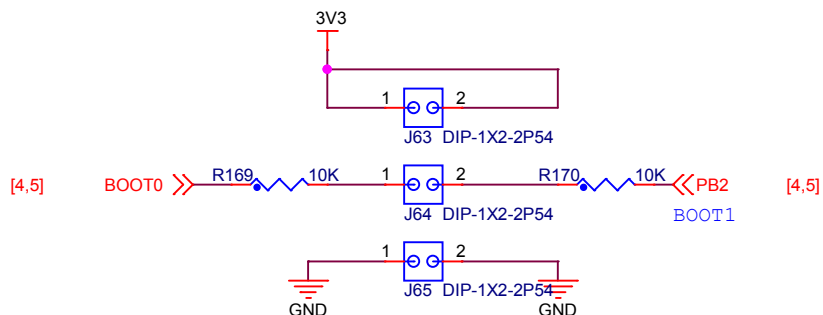
## RTC电池



## 引出IO口



## 设置启动模式



## F429 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）

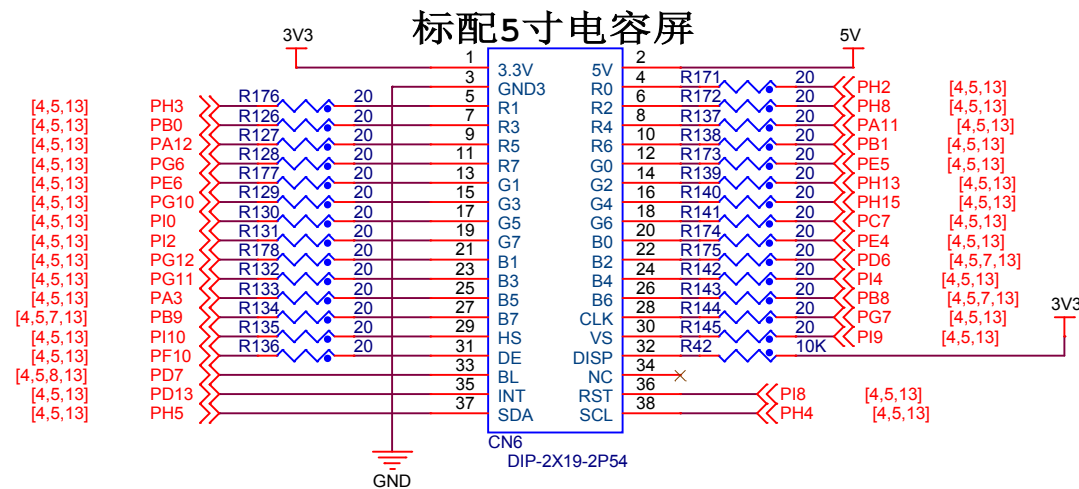
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野火STM32F429/F767/H743底板原理图

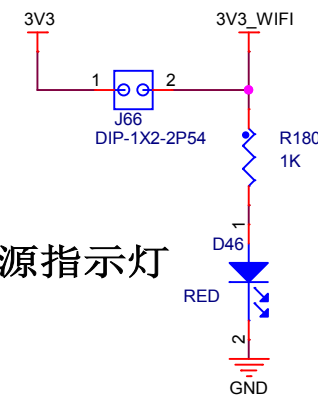
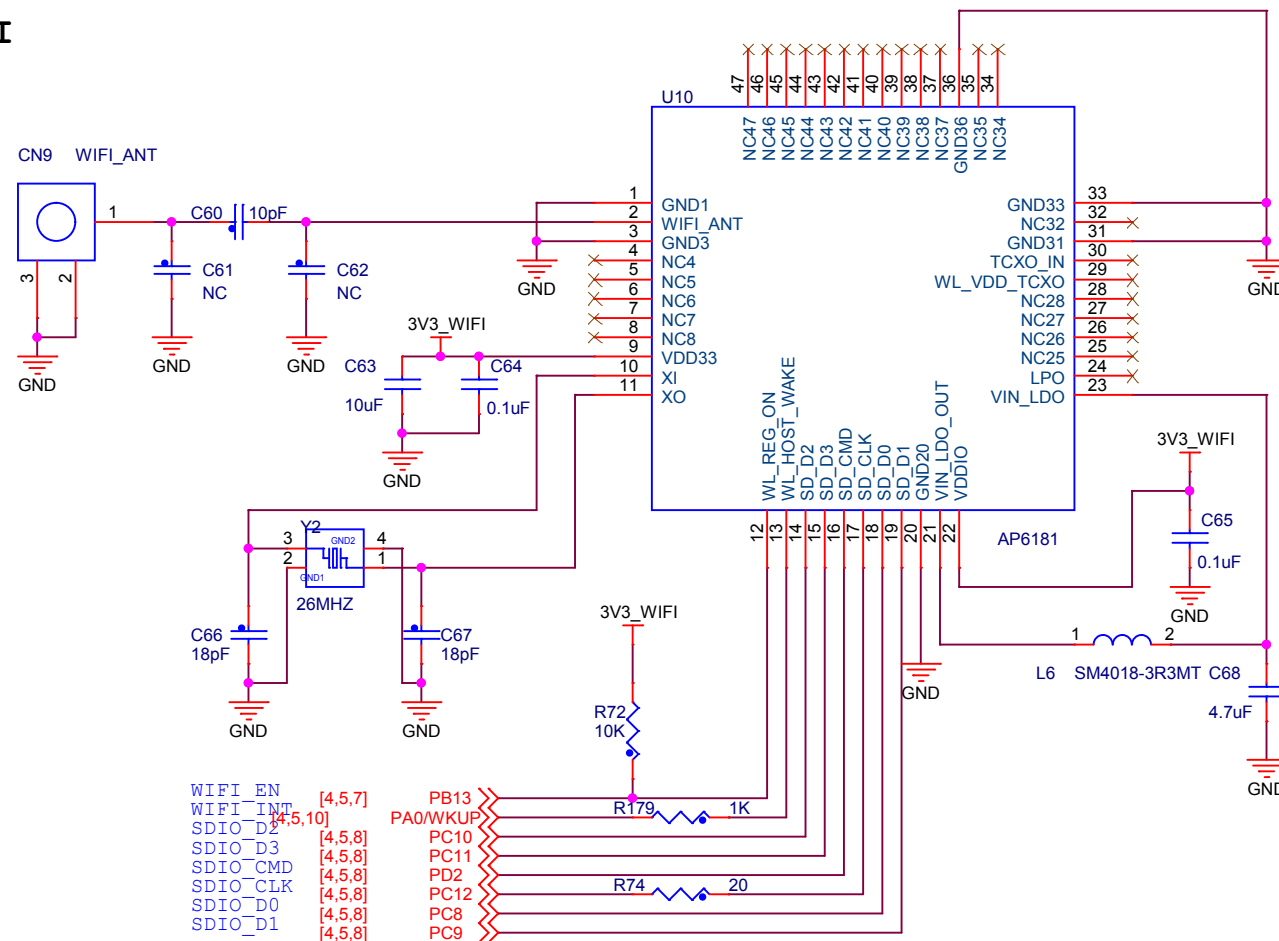
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## 液晶接口-RGB888模式



**WIFI**



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Document Number

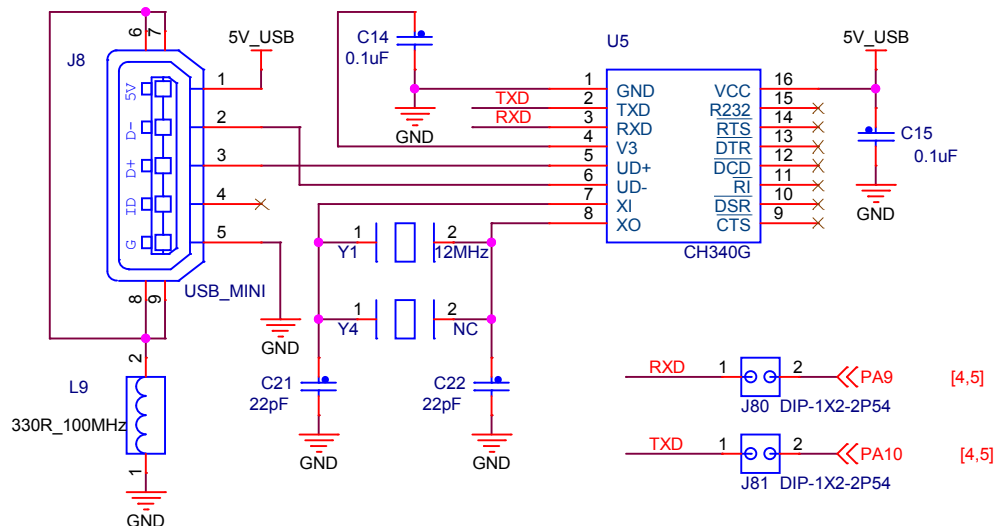
LCD/CSI

Rev	V2.0
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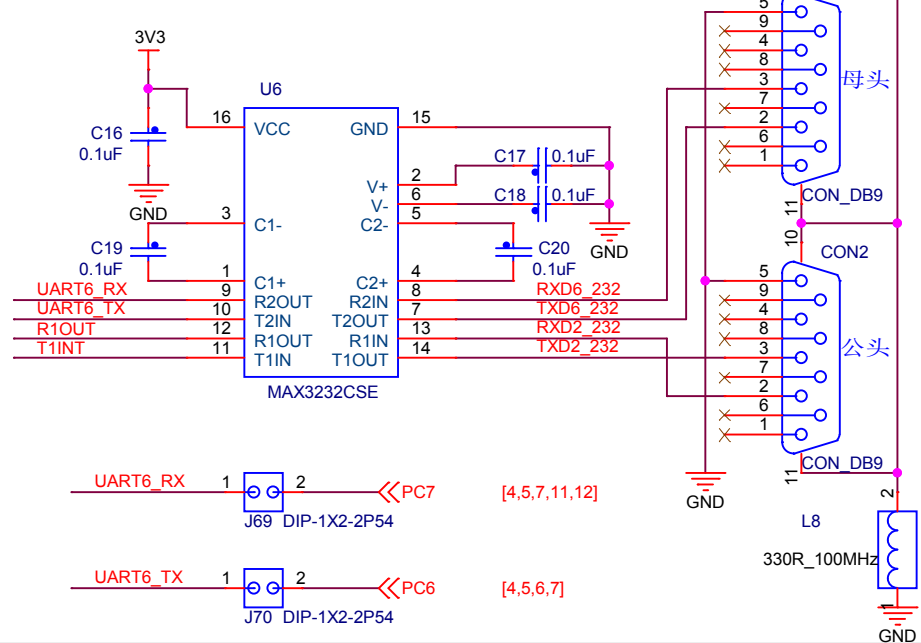
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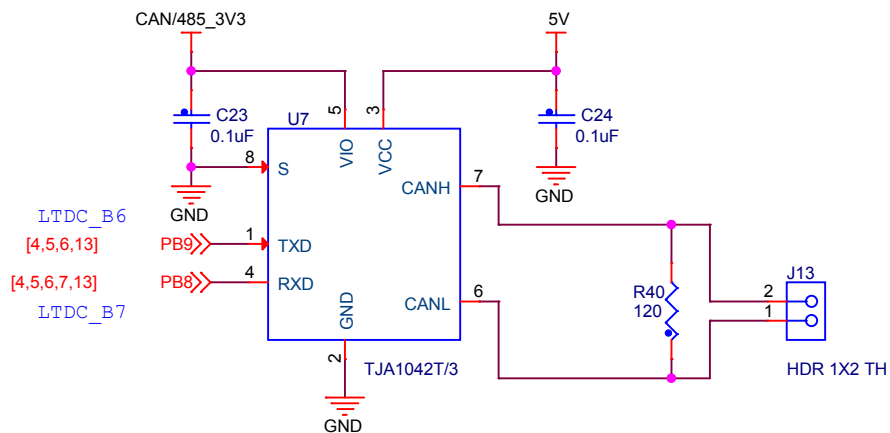
## USB转串口



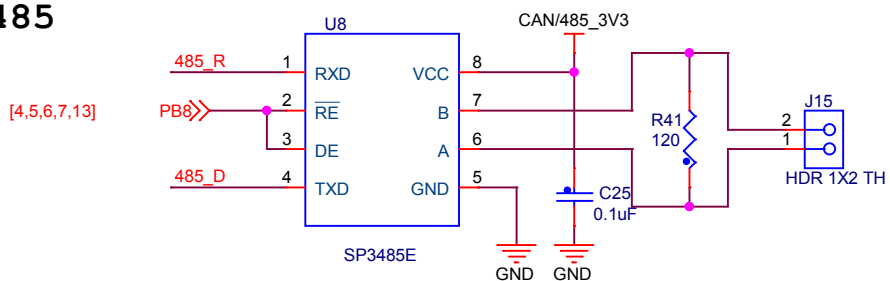
## RS232串口



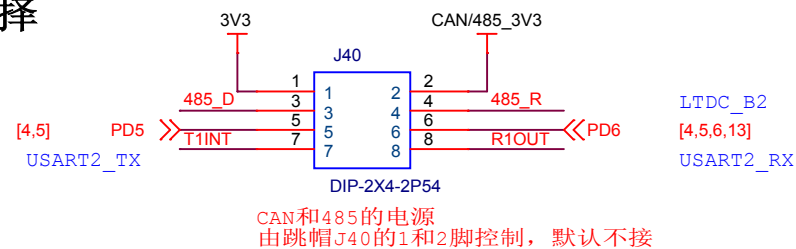
## CAN



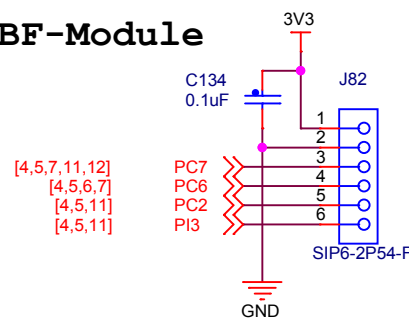
## RS485



## 跳帽选择



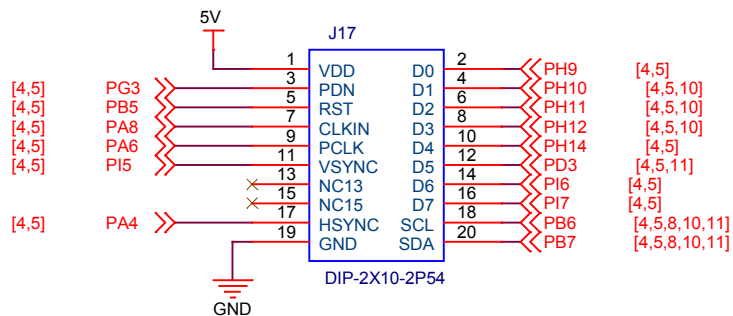
## EBF-Module



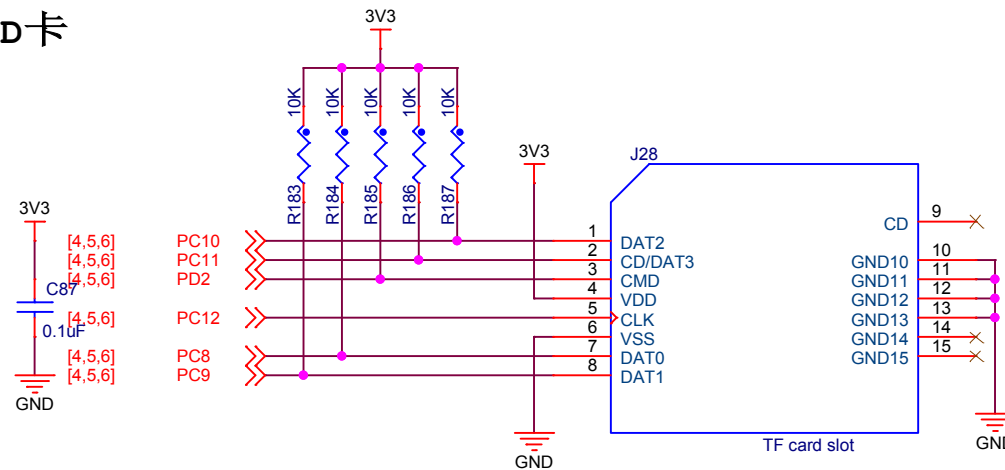
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野火STM32F429/F767/H743底板原理图		
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## 摄像头接口

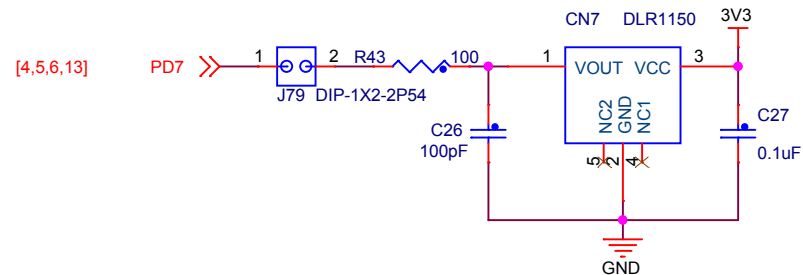


## SD卡



## 光纤接口

该功能只有F767, H743支持



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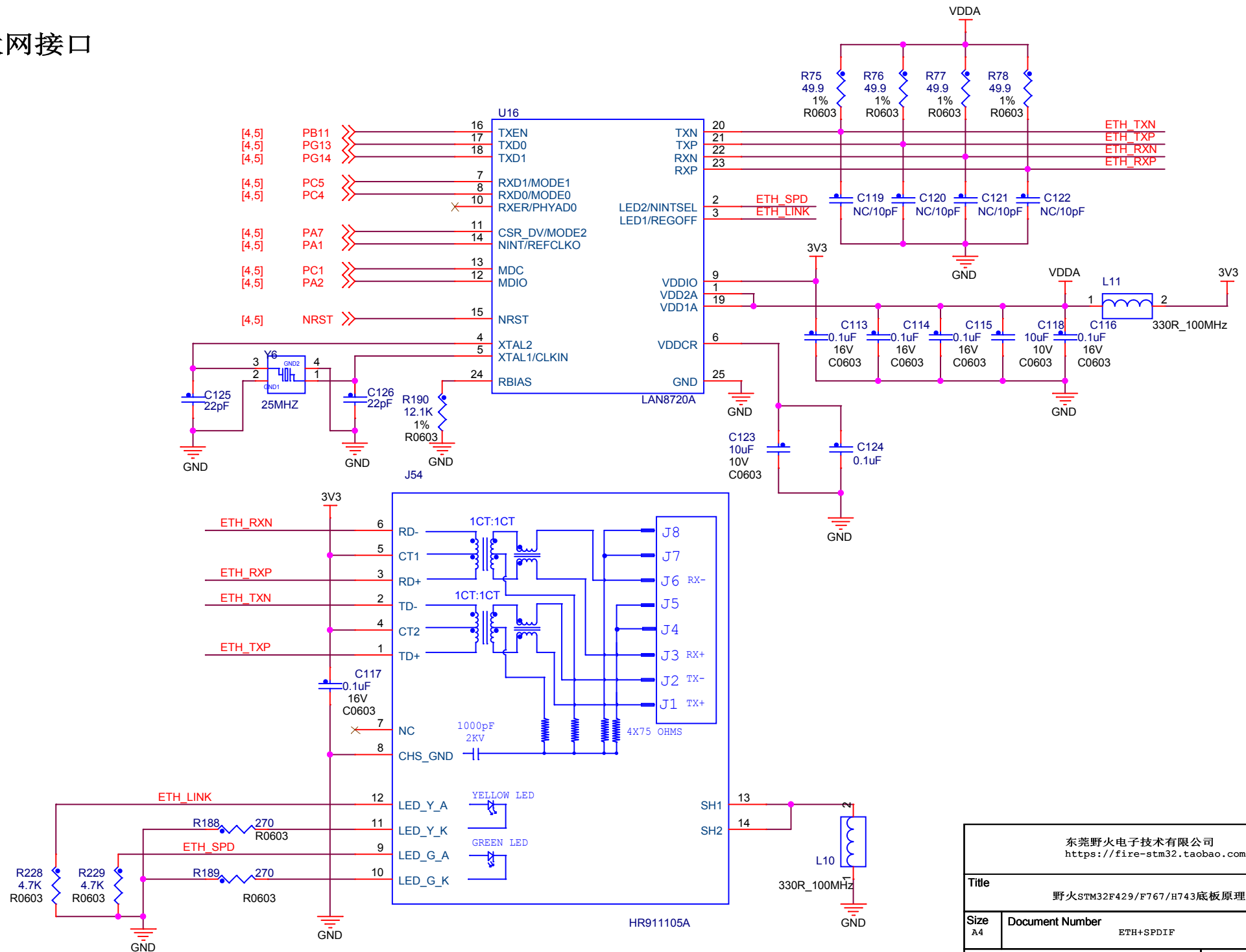
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## 以太网接口



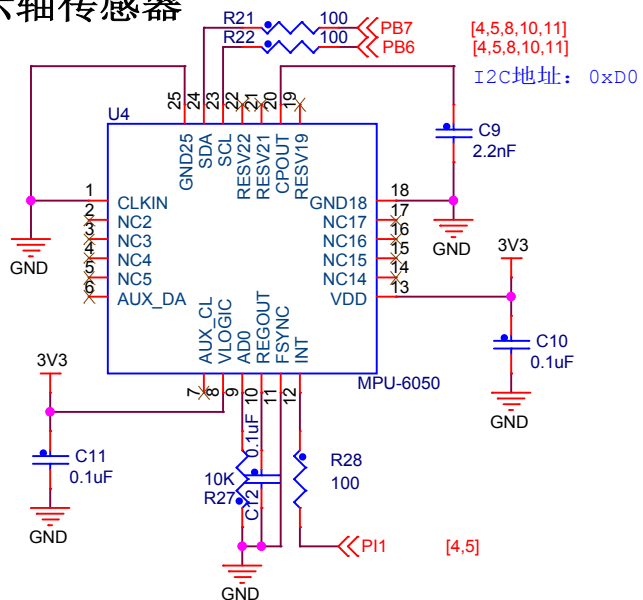
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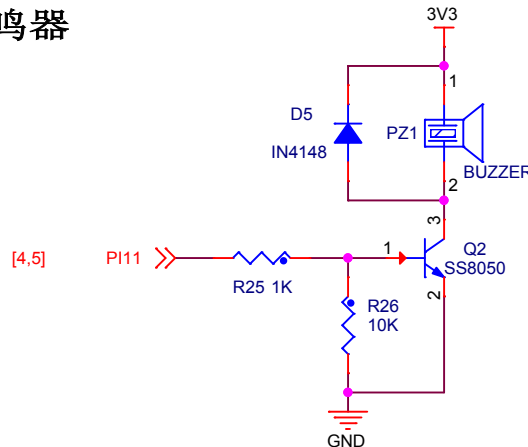
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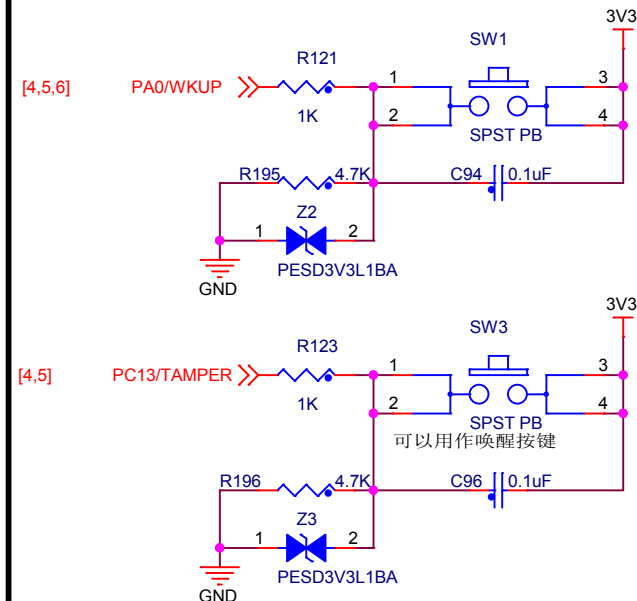
## 六轴传感器



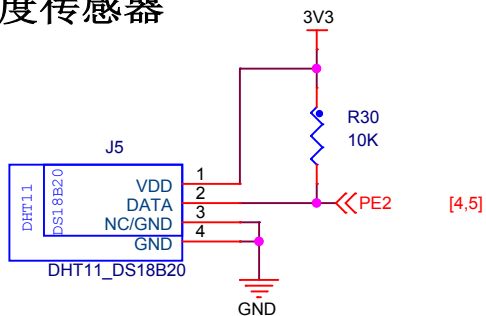
## 蜂鸣器



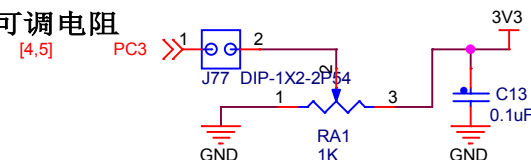
## 按键



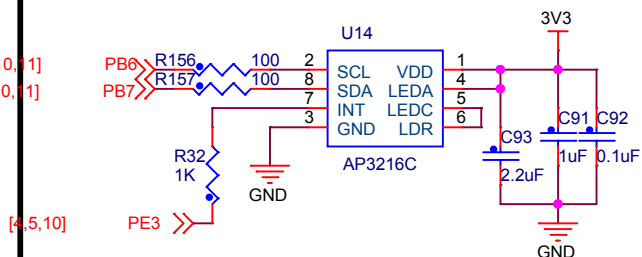
## 温湿度传感器



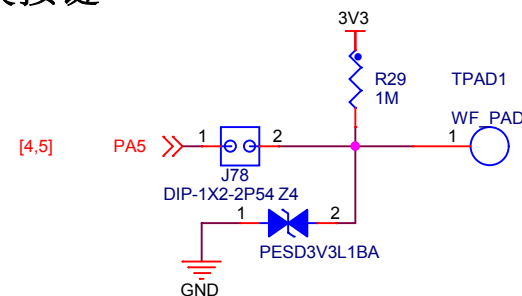
## 可调电阻



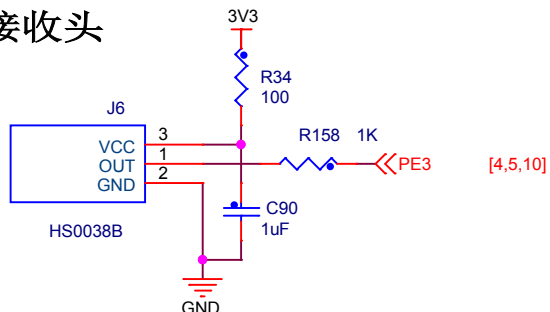
## ALS+PS+IRLED (三合一)



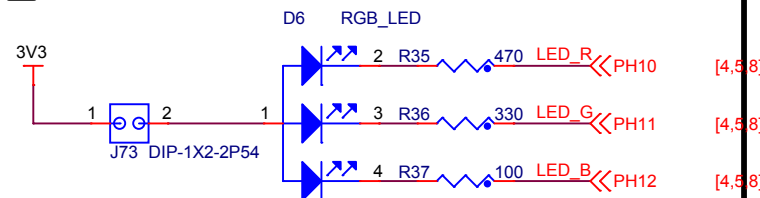
## 触摸按键



## 红外接收头



## 彩色LED



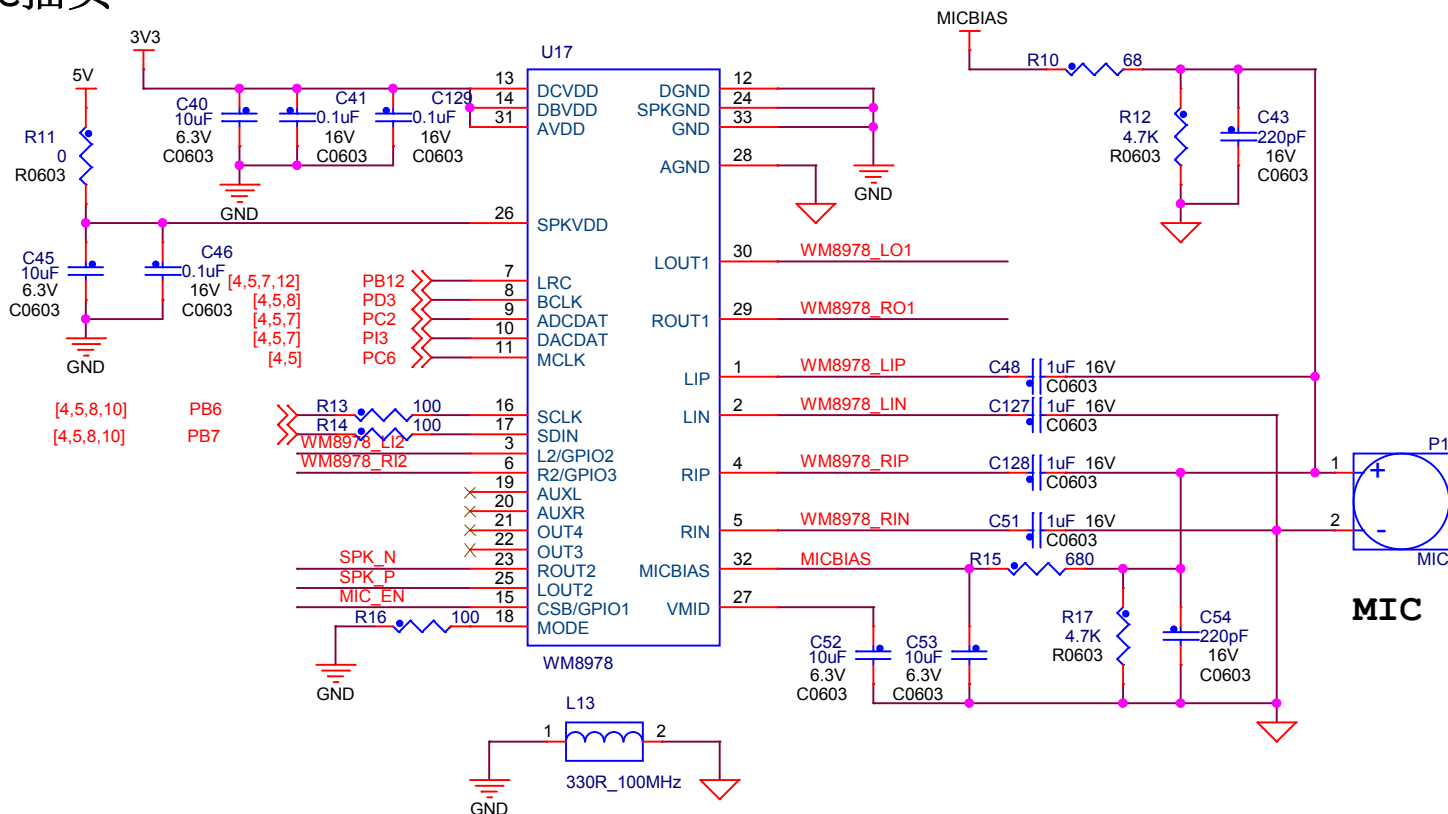
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Title  
野火STM32F429/F767/H743底板原理图

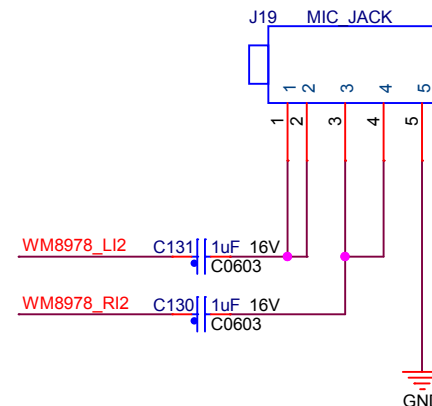
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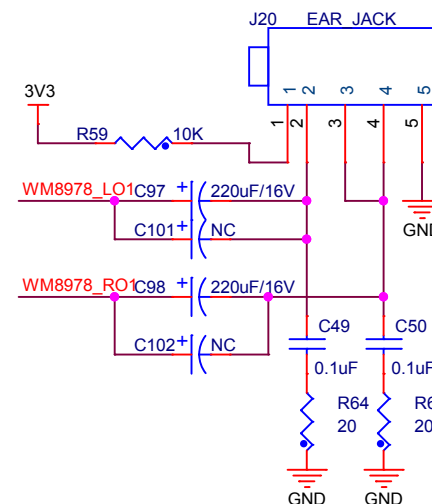
## MIC插头



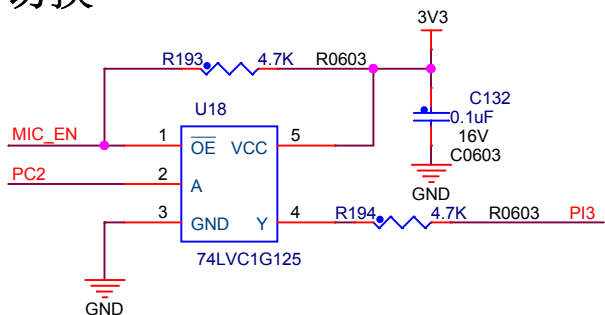
## 音频输入



## 耳机插座

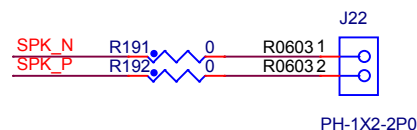


## 录音放音切换



F767的I2S是半双工，模拟开关切换  
MIC\_EN为高定平放音，低定平录音  
F429/H743的I2S是全双工，不需要切换

## 喇叭插座



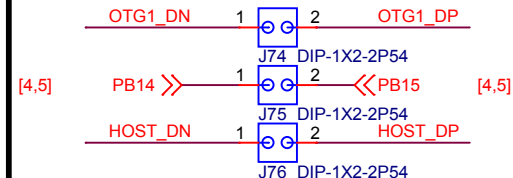
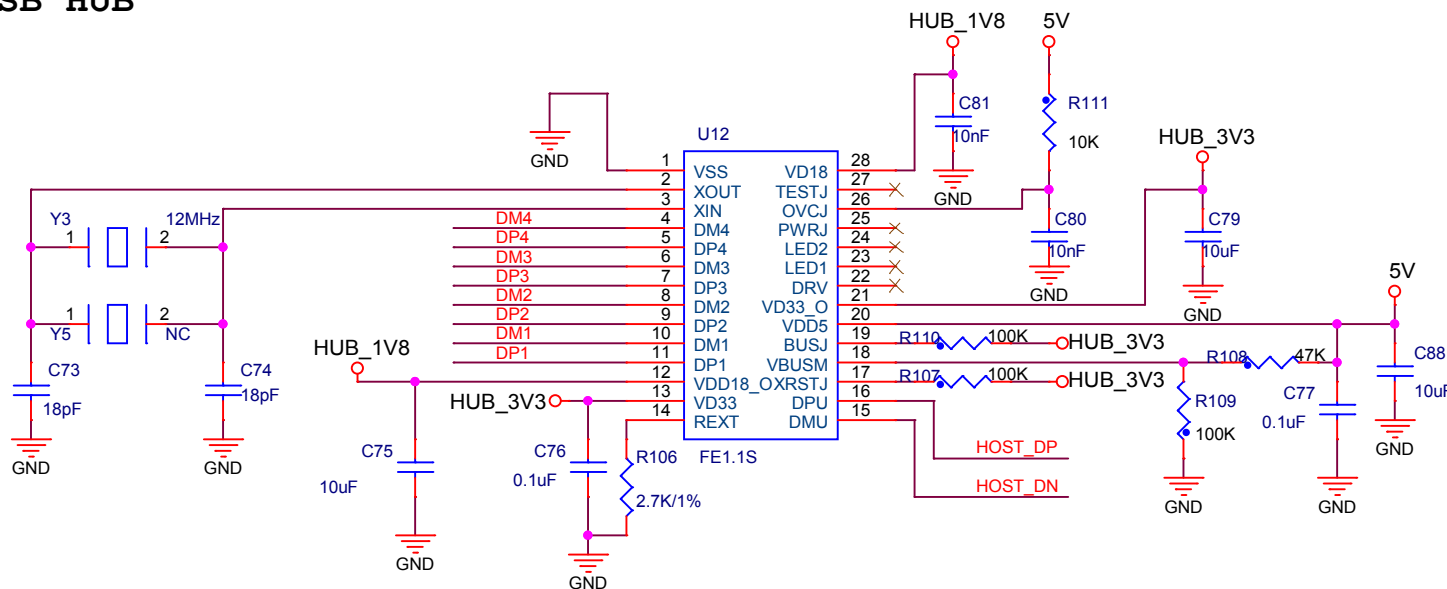
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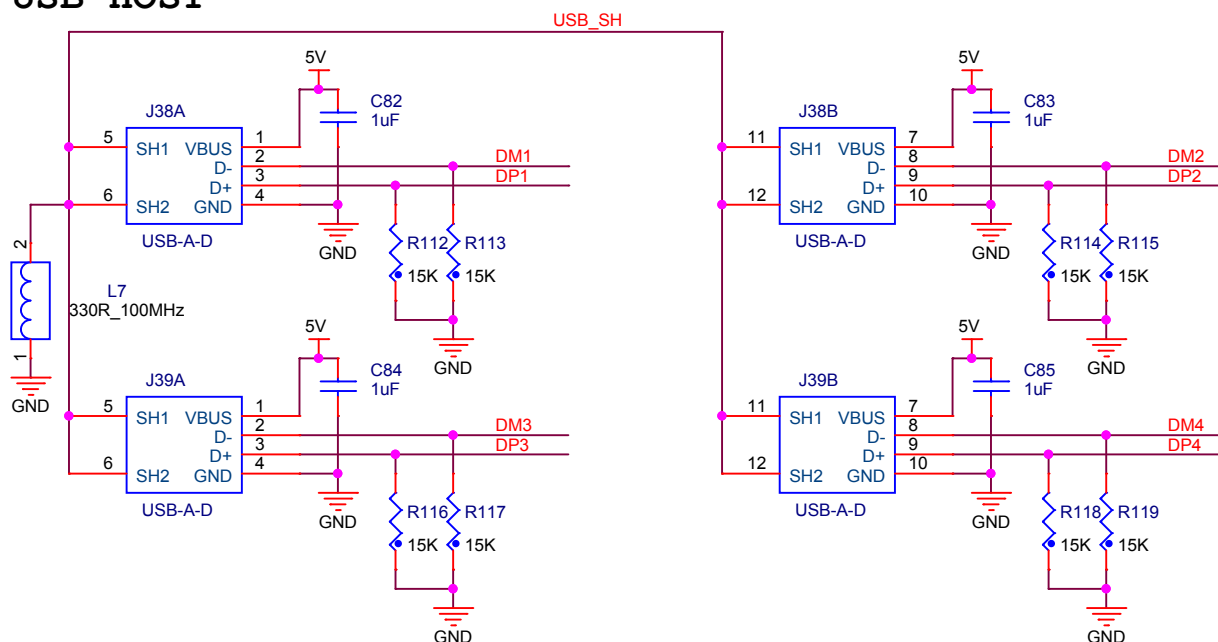
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## USB HUB

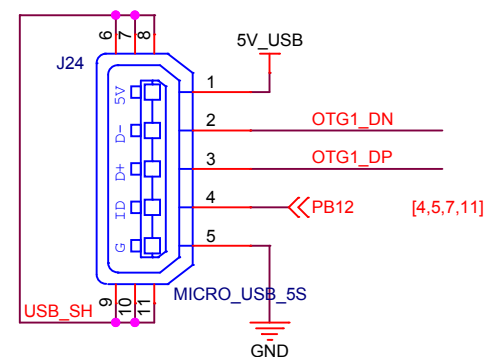


HOS和OTG为同一组USB，通过跳帽来选择，默认是OTG1

## USB HOST



## USB OTG



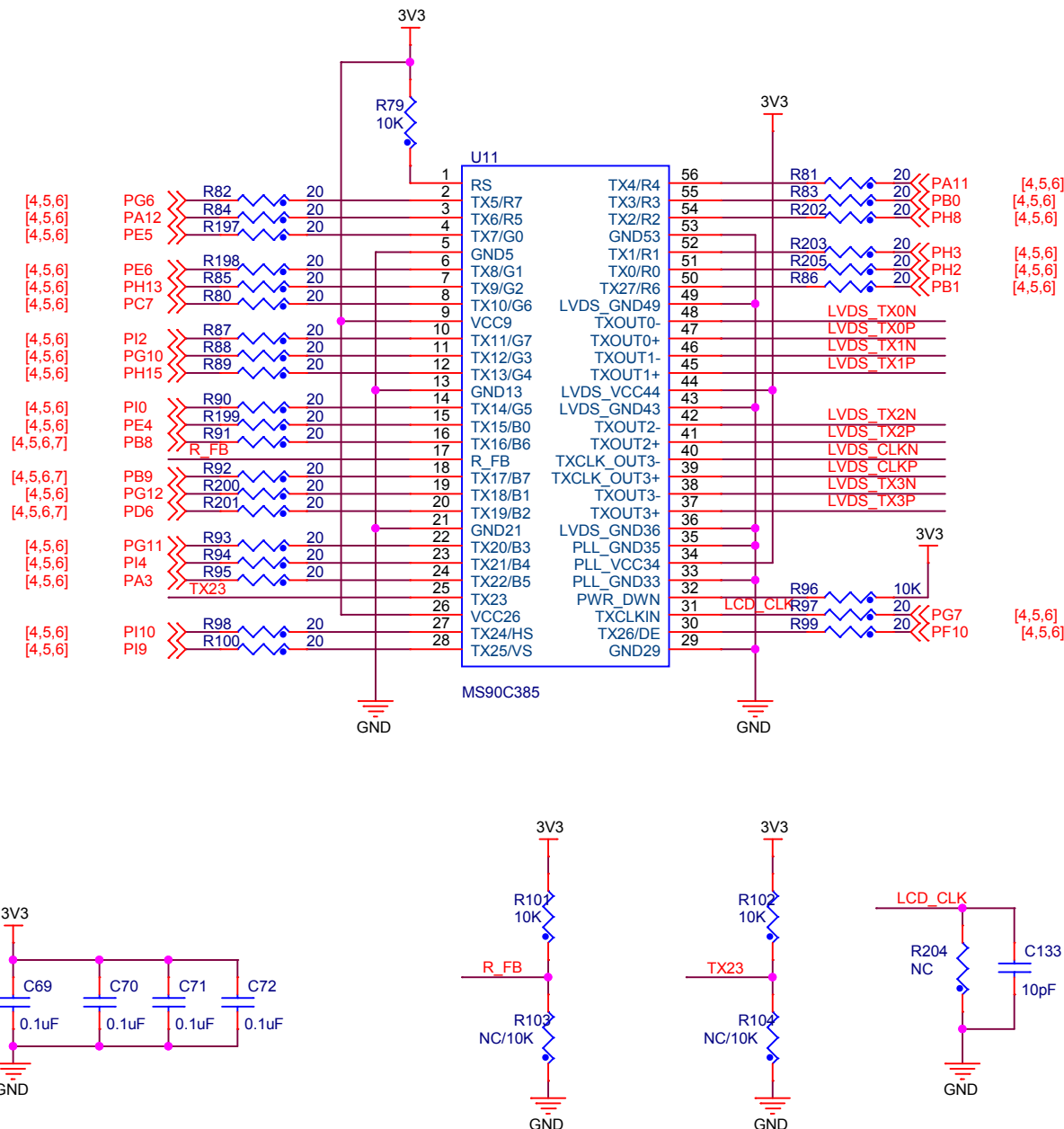
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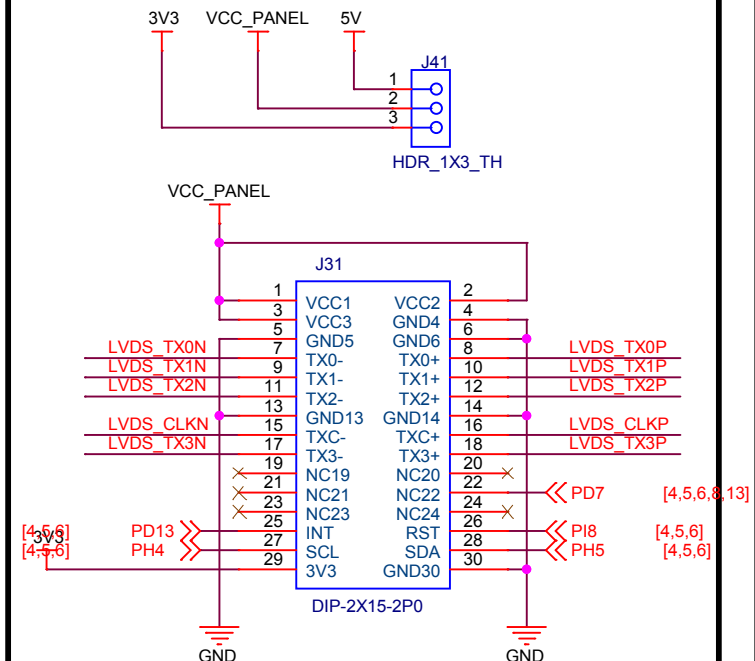
Size A4 Document Number USB Rev V2.0

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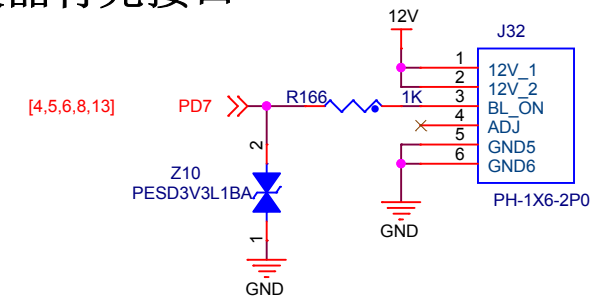
## RGB888转LVDS



## 驱屏接口



## 液晶背光接口



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