

# 野火STM32F429/F767/H743底板原理图\_V2.1

## 目录

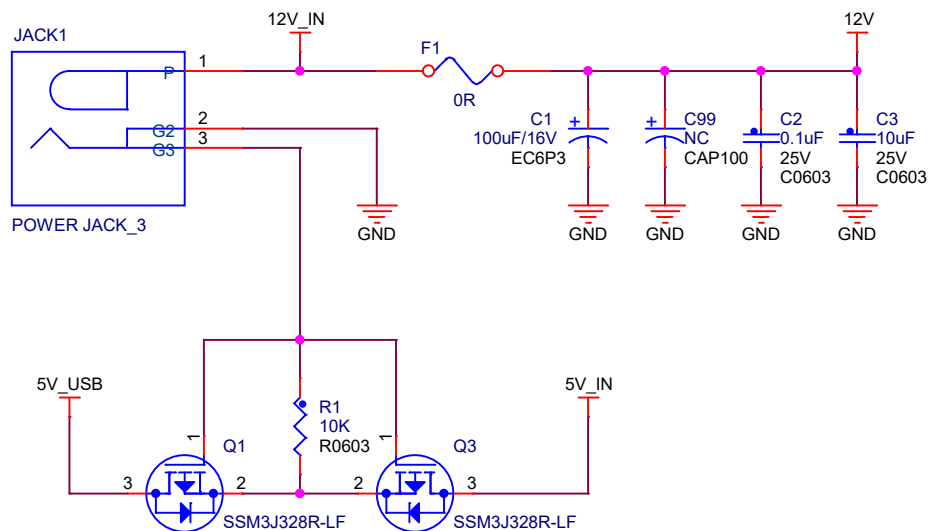
|         |                      |
|---------|----------------------|
| Page 1  | 目录                   |
| Page 2  | 历史版本                 |
| Page 3  | 主电源                  |
| Page 4  | B2B_Conector         |
| Page 5  | 引出IO/BOOT            |
| Page 6  | 液晶屏/WIFI             |
| Page 7  | UART/CAN/RS232/RS485 |
| Page 8  | Camera/SD/USB        |
| Page 9  | ETHERNET             |
| Page 10 | SENSOR/KEY/LED       |
| Page 11 | AUDIO                |
| Page 12 | USB HUB/OTG          |
| Page 13 |                      |

|   |                       |             |
|---|-----------------------|-------------|
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| Title<br>野火STM32F429/F767/H743底板原理图     |                       |             |
| Size<br>A4                              | Document Number<br>目录 | Rev<br>V2.0 |
| Date: Wednesday, December 22, 2021      | Sheet 1               | of 12       |

历史版本

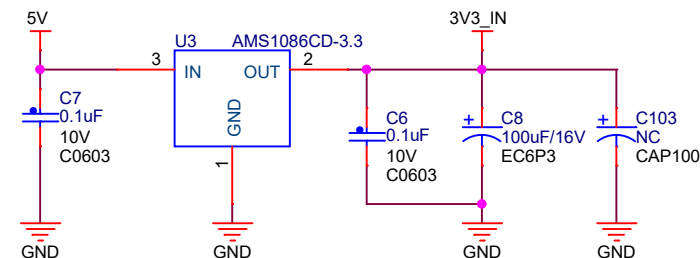
| 版本号  | 日期         | 设计      | 描述  |
|------|------------|---------|---|
| V1.0 | 2018-11-30 | cancore | 初始版本  |
| V2.0 | 2019-03-12 | cancore | 增加SWD接口，增加一个EBF-Module接口                    |
| V2.1 | 2021-09-27 | cancore | 修改电源芯片，USB转串口换成CH340C，修改USB接口HOST，Device各一个 |
|      |            |         |   |
|      |            |         |   |

## DC IN : 6V~12V

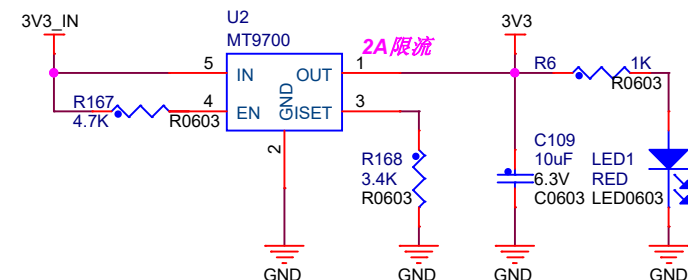


DC电源插入时, Q1/Q3截止, 防止电流流向USB  
DC电源断开时, Q1/Q3打开, USB供电

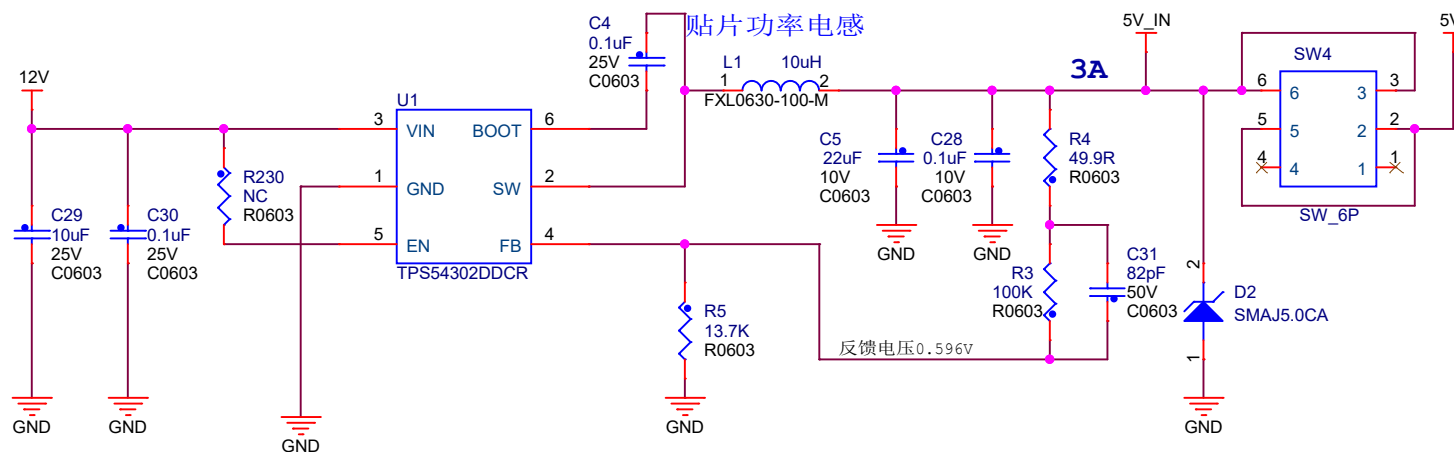
## LDO 3.3V



## 3.3V 输出过流保护

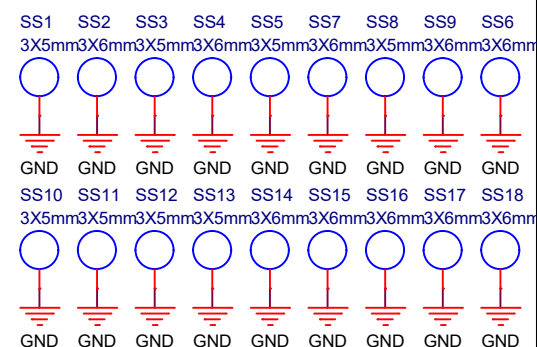


## DC/DC 5V



R230为100K/NC  
根据使用芯片决定是否需要焊对应的电阻

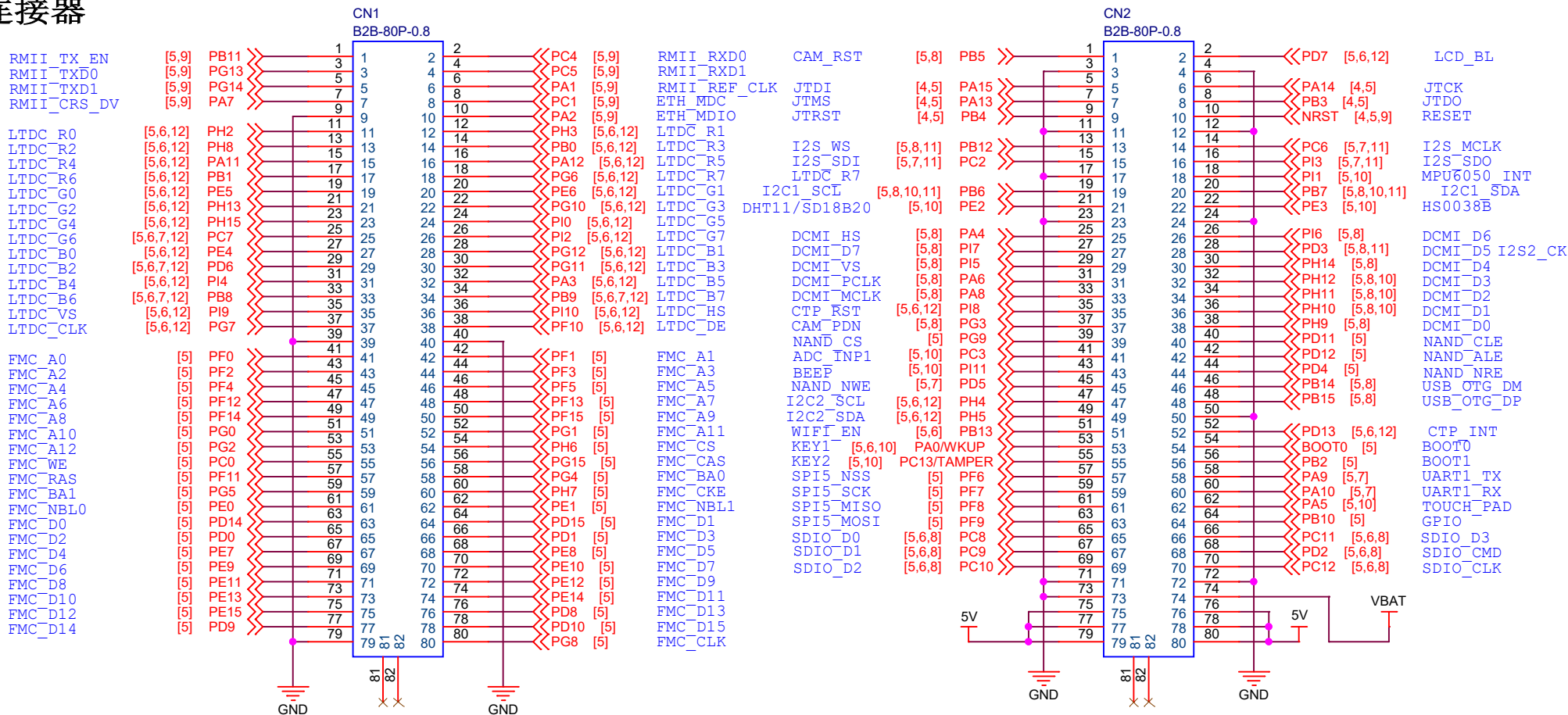
## 定位孔



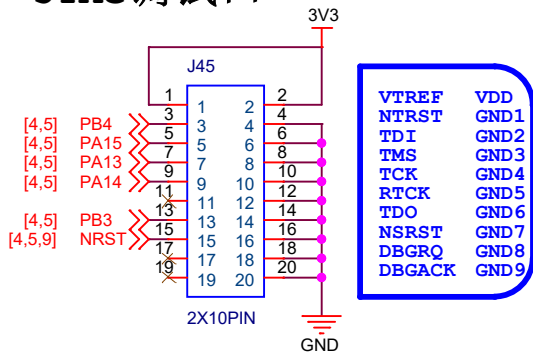
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|                                       |                         |             |
|---------------------------------------|-------------------------|-------------|
| Title<br>野火STM32F429/F767/H743底板原理图   |                         |             |
| Size<br>A4                            | Document Number<br>电源供电 | Rev<br>V2.0 |
| Date:<br>Wednesday, December 22, 2021 | Sheet<br>3              | of<br>12    |

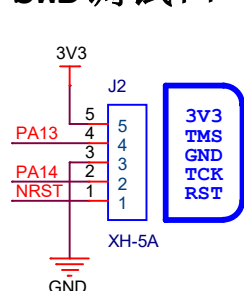
# 连接器



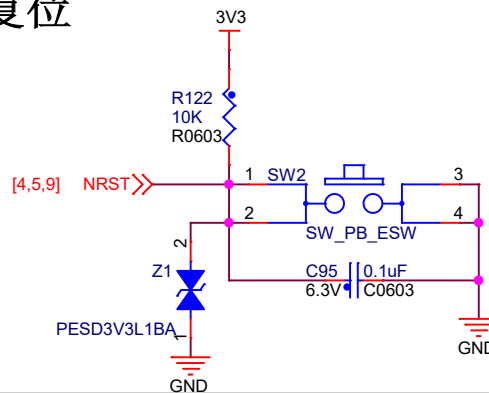
## JTAG调试口



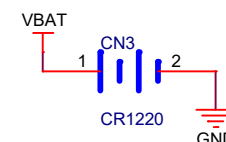
## SWD调试口



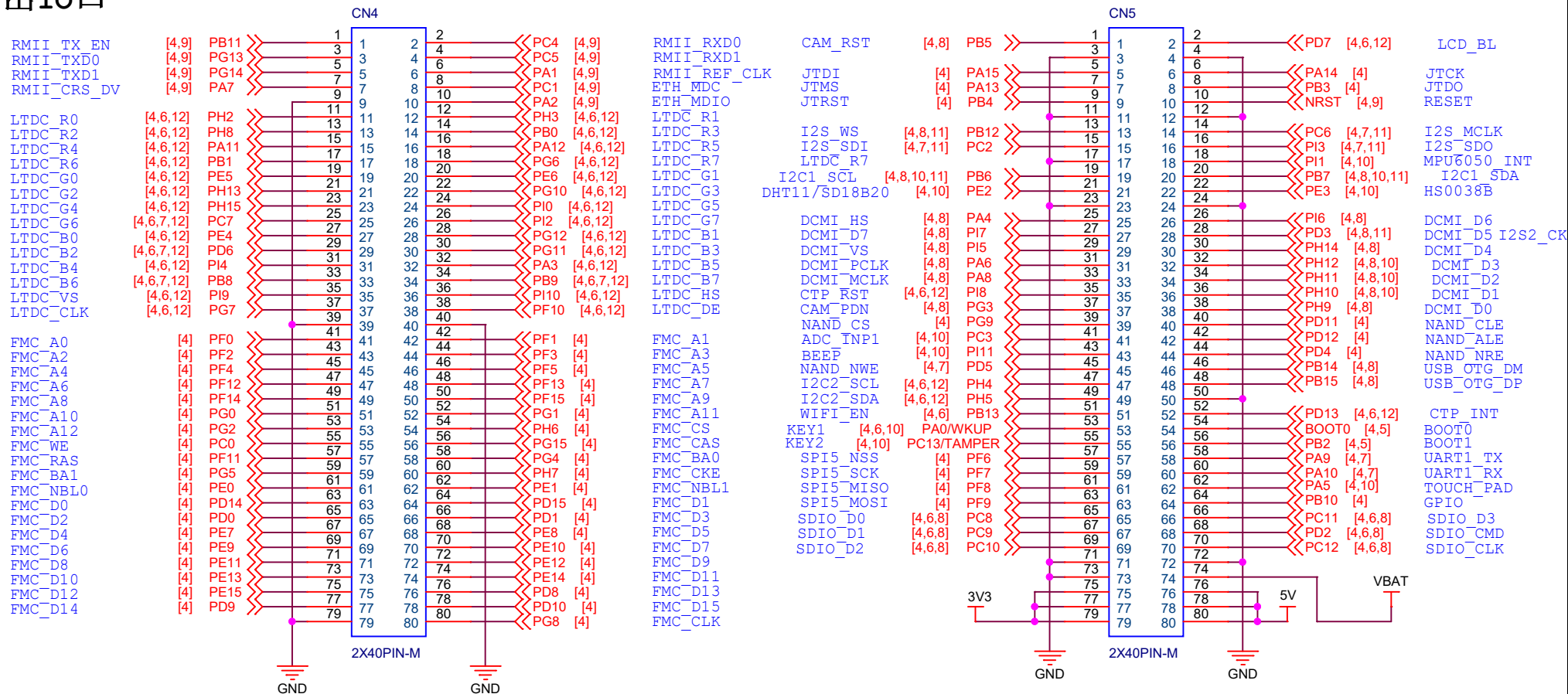
## 复位



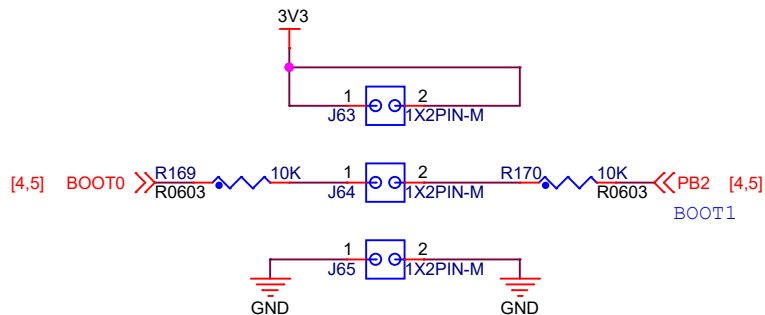
## RTC电池



## 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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Title

野火STM32F429/F767/H743底板原理图

Size  
A4

Document Number

引出IO/BOOT

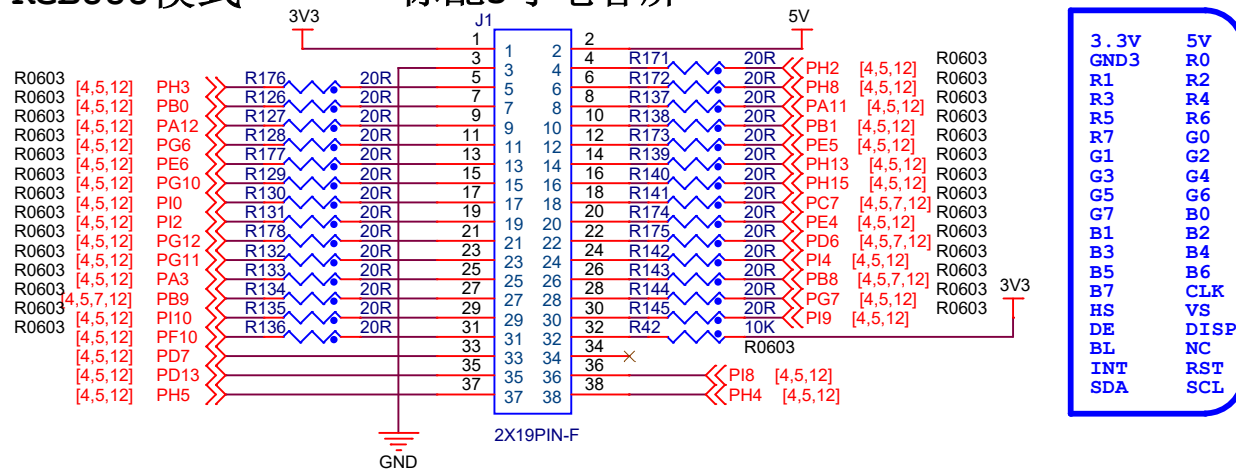
Rev  
V2.0

Date: Wednesday, December 22, 2021

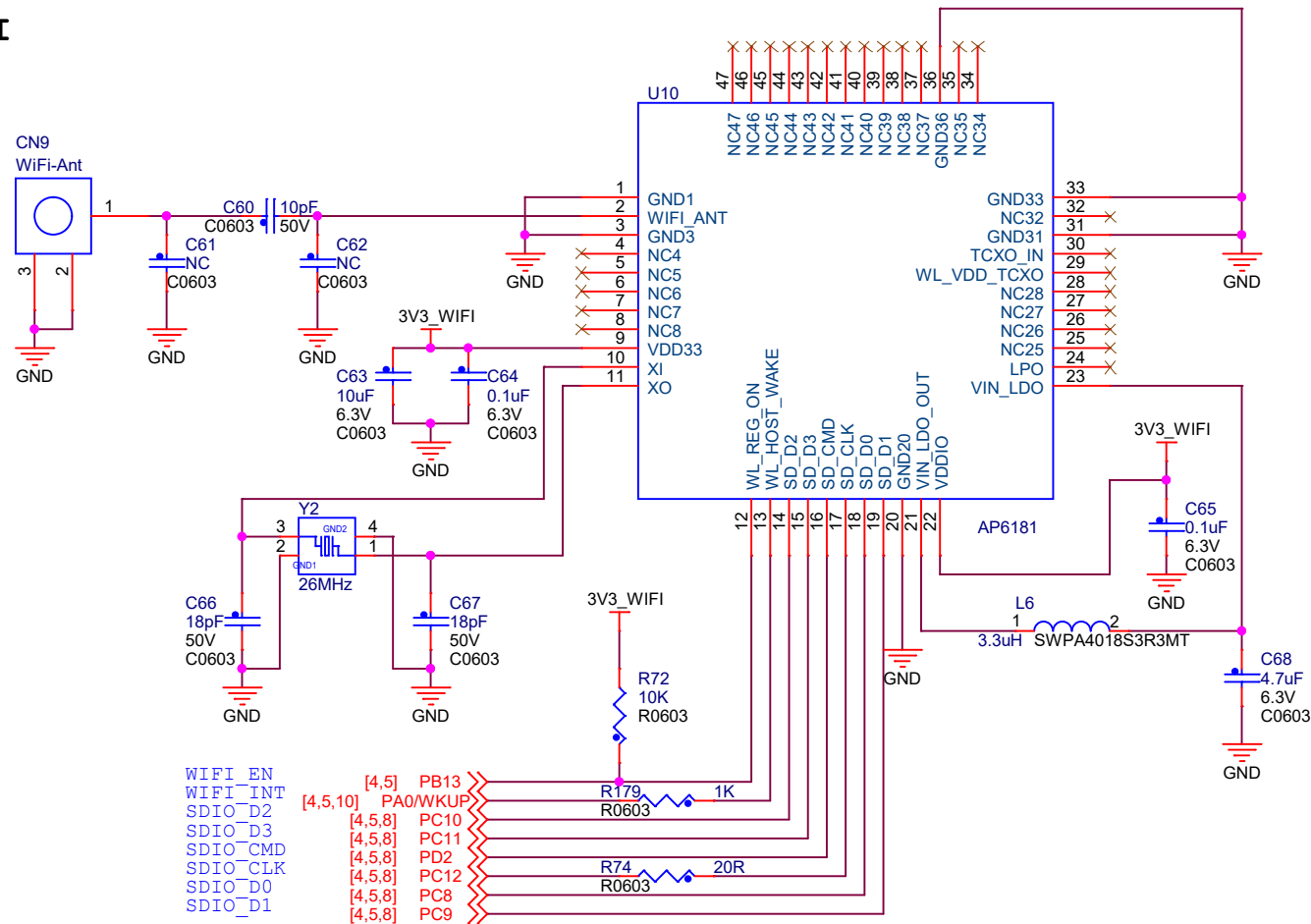
Sheet 5 of 12

## 液晶接口-RGB888模式

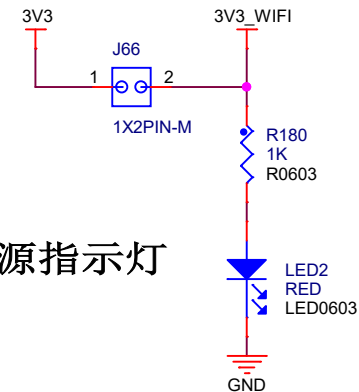
标配5寸电容屏



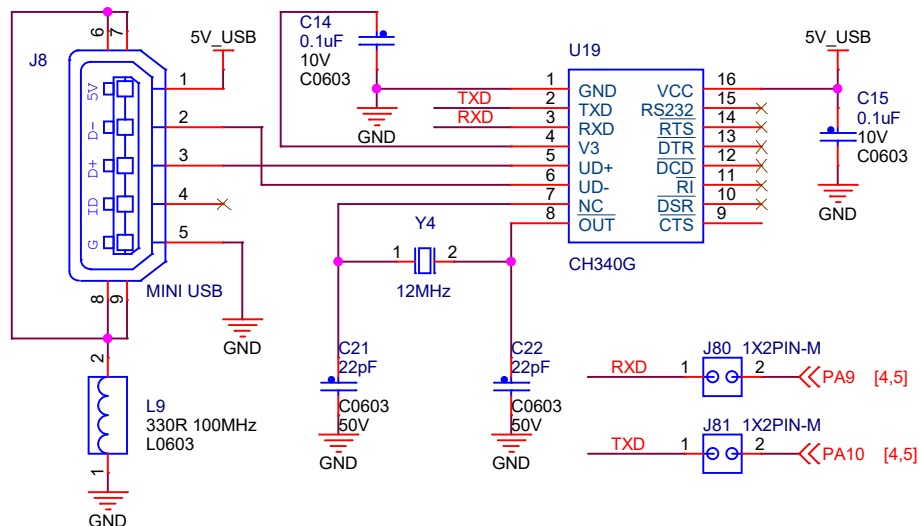
## WIFI



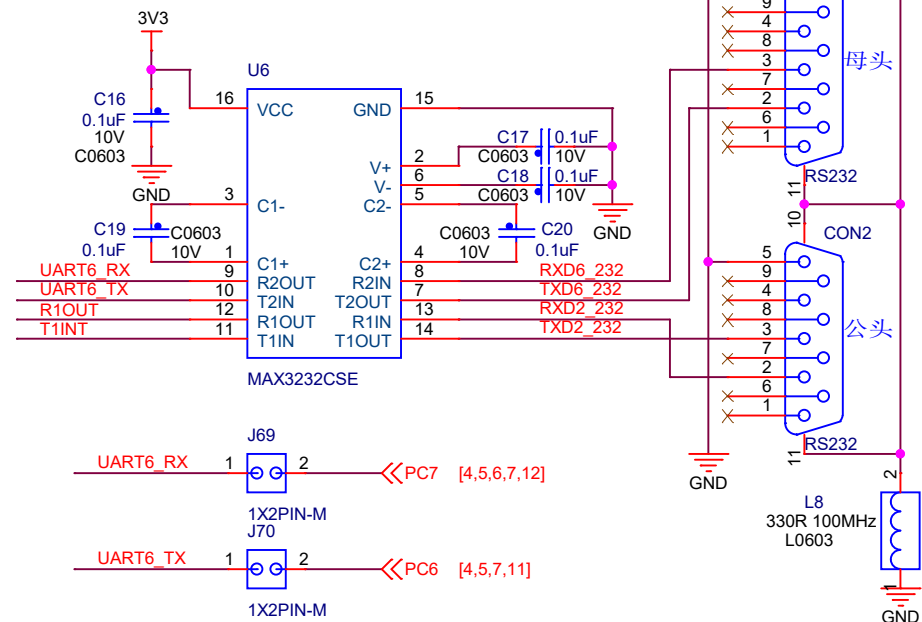
## WIFI电源指示灯



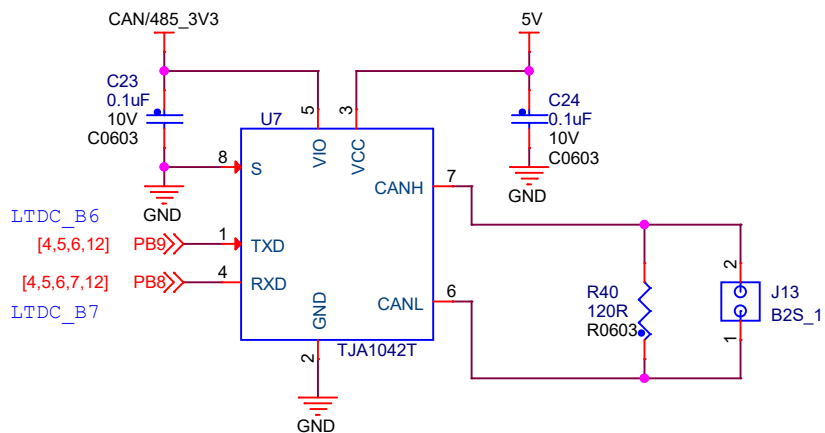
## USB转串口



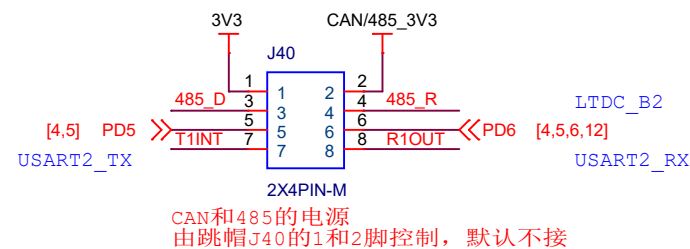
## RS232串口



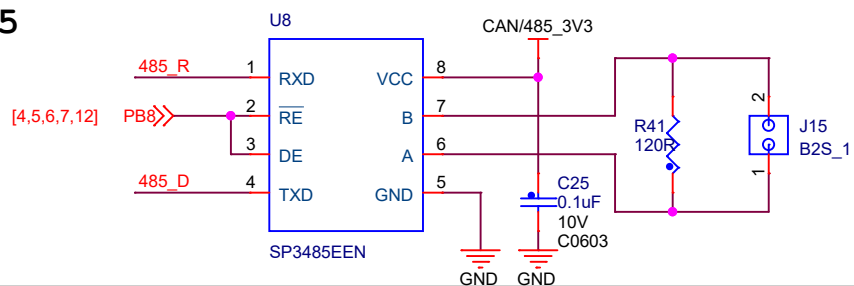
## CAN



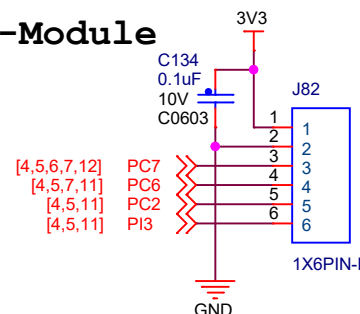
## 跳帽选择



## RS485

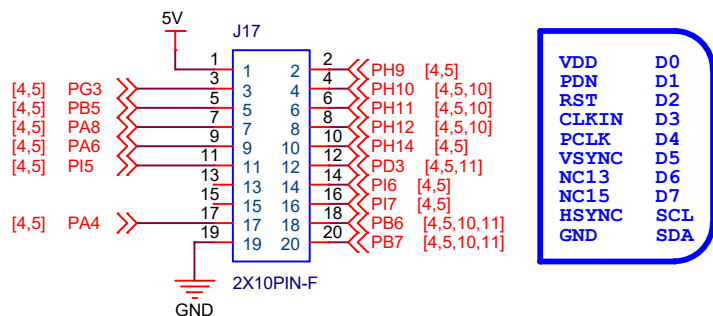


## EBF-Module

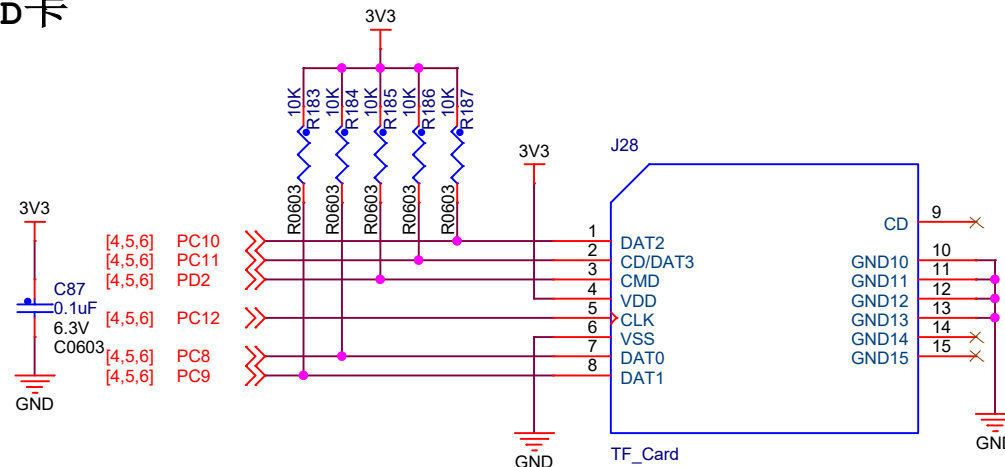


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| Title 野火STM32F429/F767/H743底板原理图  |                                      |          |
| Size A4   | Document Number UART/CAN/RS232/RS485 | Rev V2.0 |
| Date: Wednesday, December 22, 2021  | Sheet 7                              | of 12    |

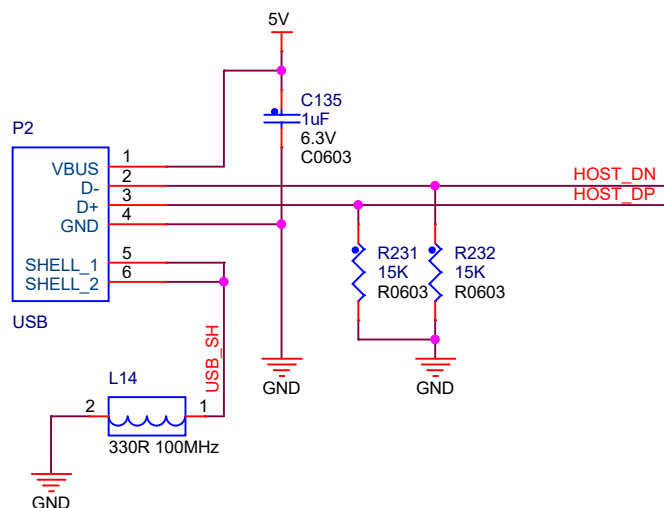
## 摄像头接口



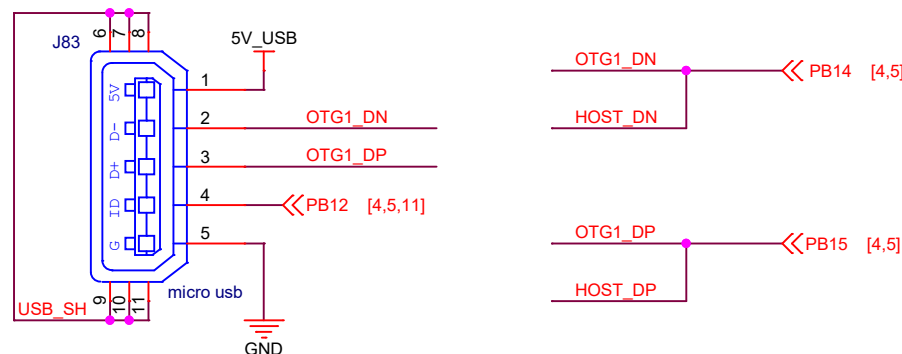
## SD卡



## USB HOST



## USB Device



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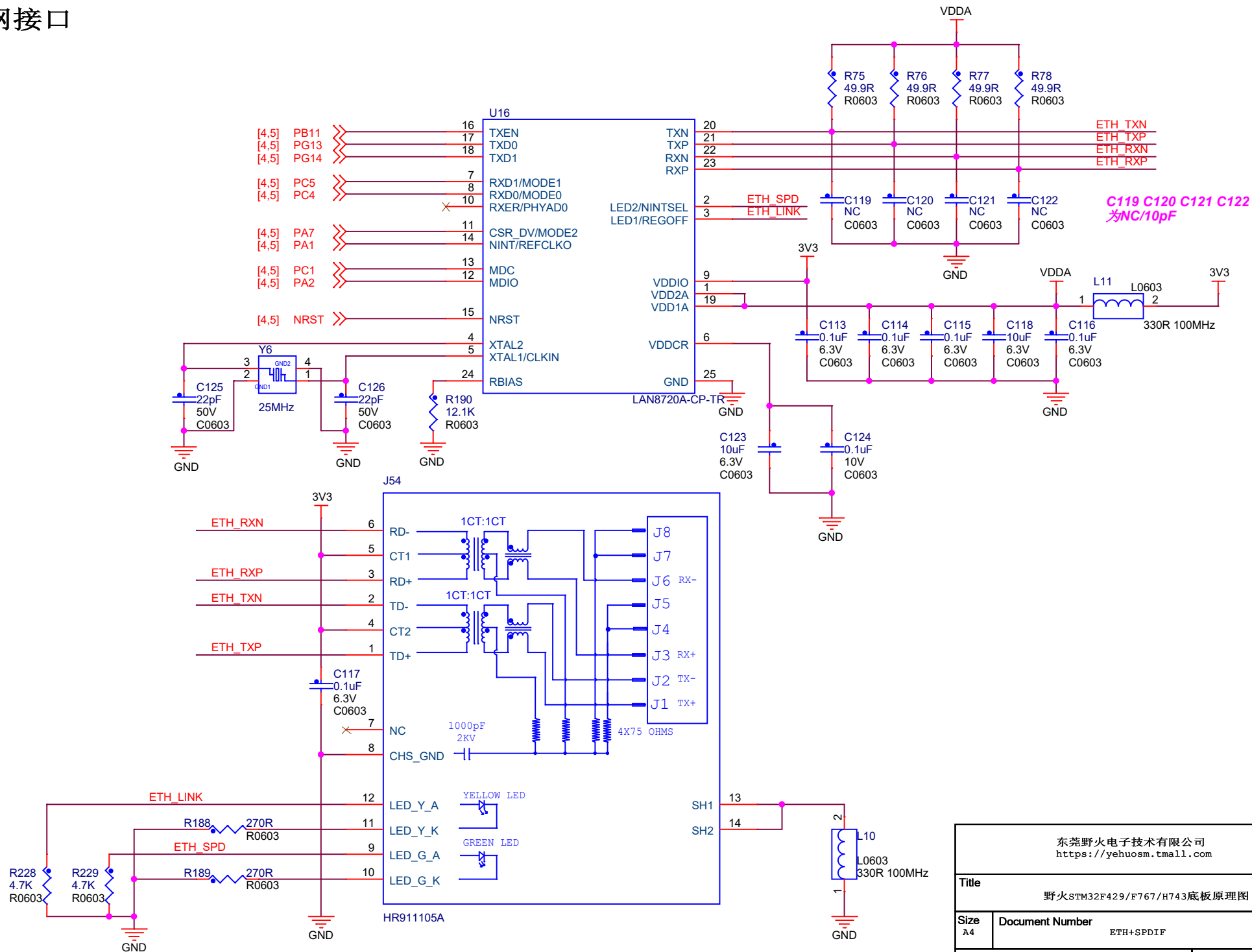
Title  
野火STM32F429/F767/H743底板原理图

Size A4 Document Number Camera/SD Rev V2.0

Date: Wednesday, December 22, 2021 Sheet 8 of 12

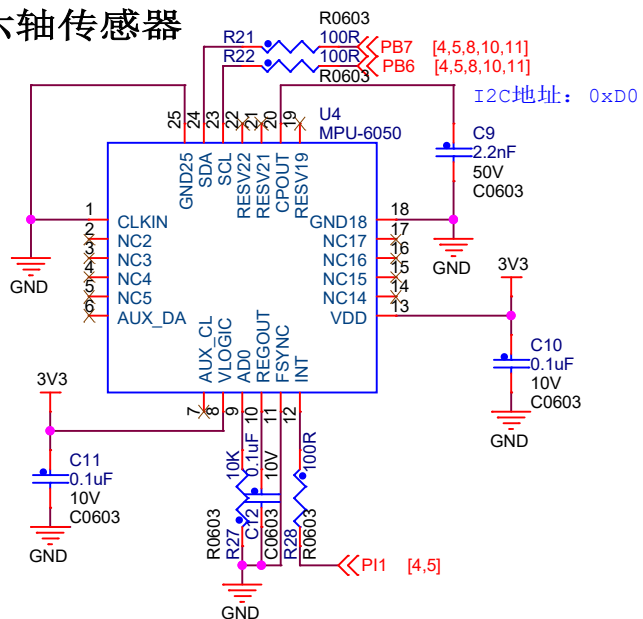


# 以太网接口

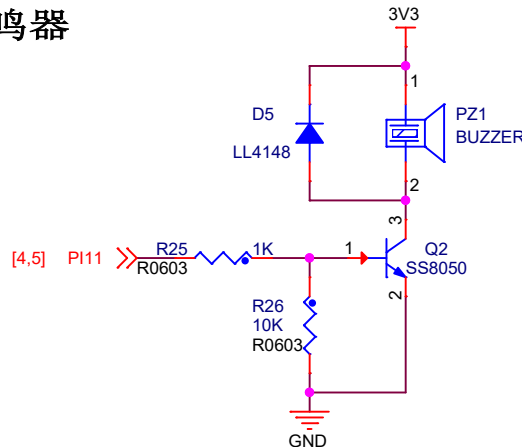


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|---|------------------------------|-------------|
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| Title<br>野火STM32F429/F767/H743底板原理图     |                              |             |
| Size<br>A4                              | Document Number<br>ETH+SPDIF | Rev<br>V2.0 |
| Date: Wednesday, December 22, 2021      | Sheet 9                      | of 12       |

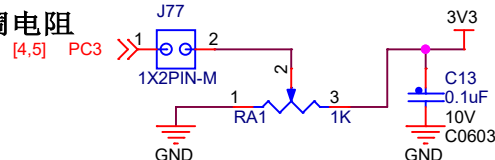
## 六轴传感器



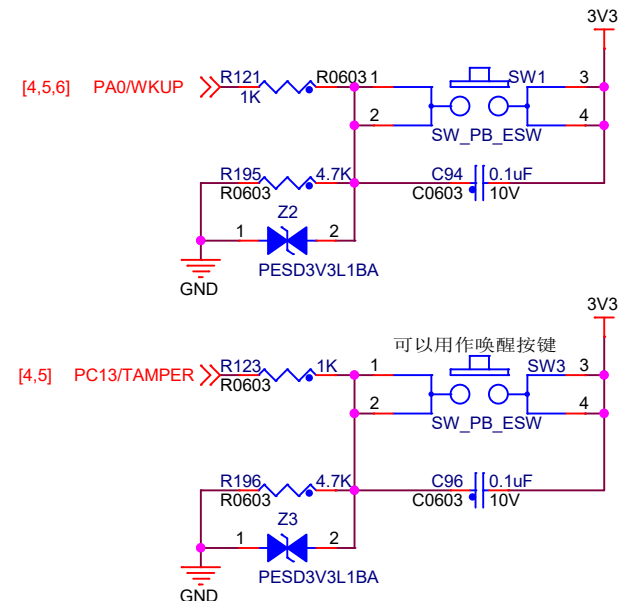
## 蜂鸣器



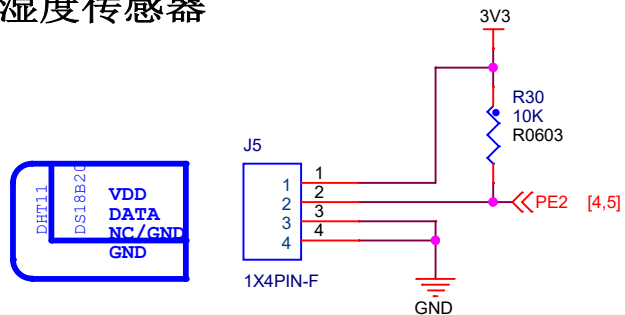
## 可调电阻



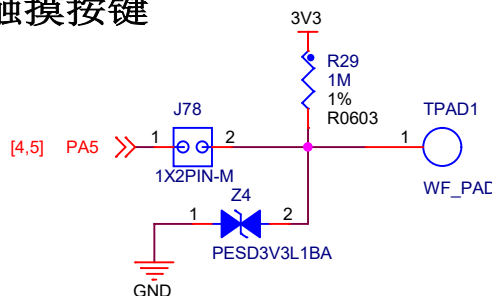
## 按键



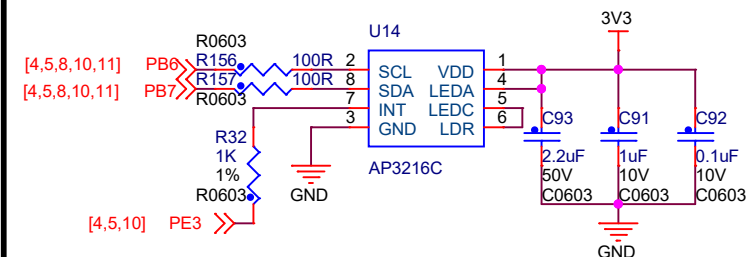
## 温湿度传感器



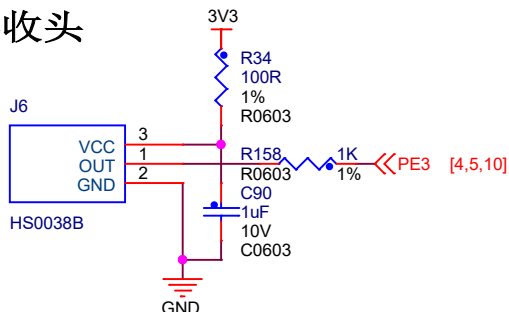
## 触摸按键



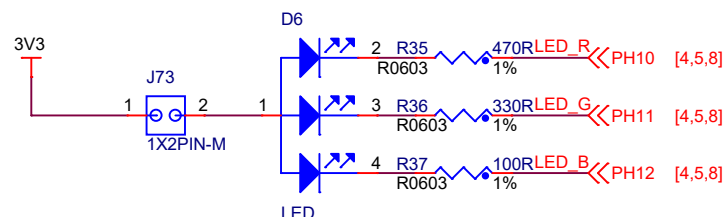
## ALS+PS+IRLED (三合一)



## 红外接收头

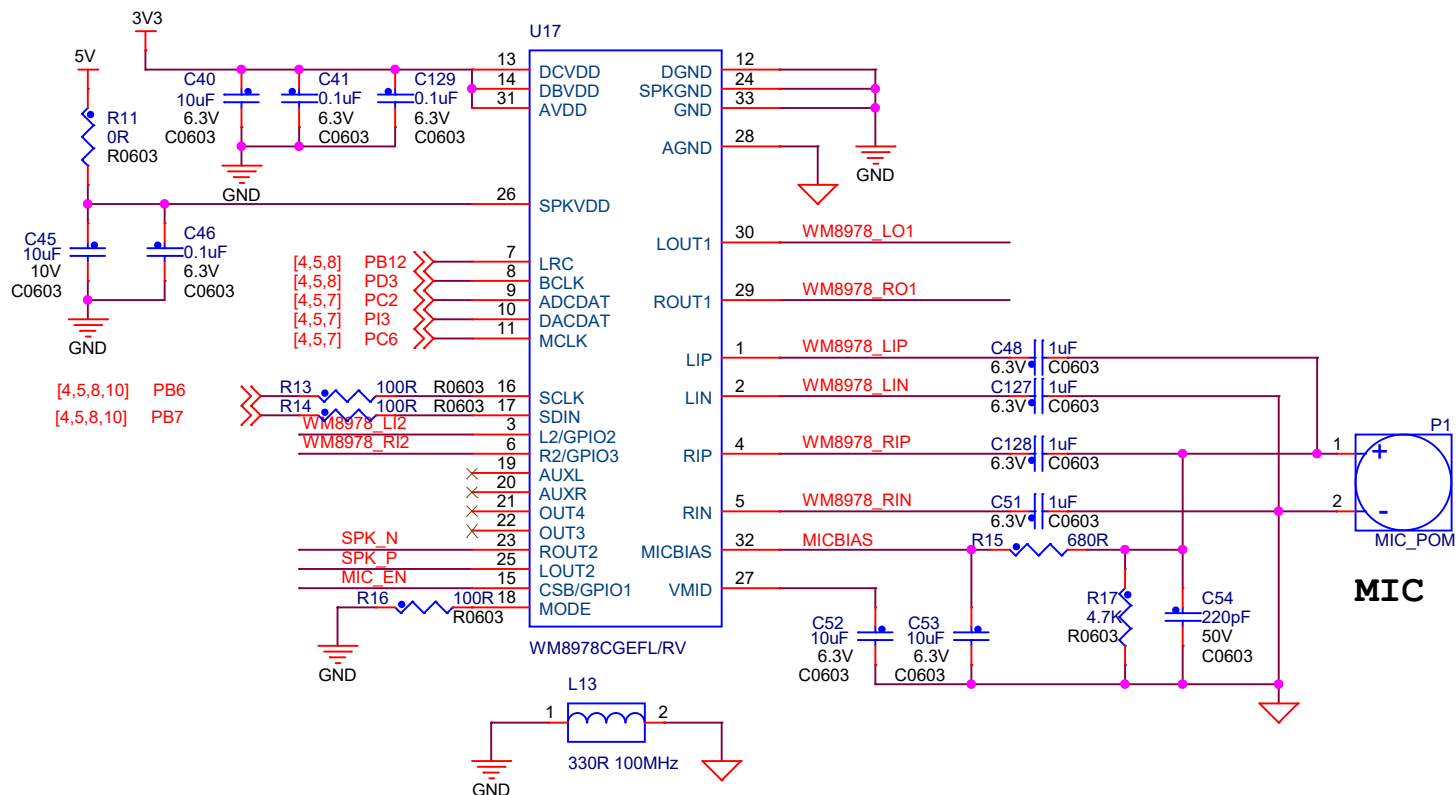


## 彩色LED

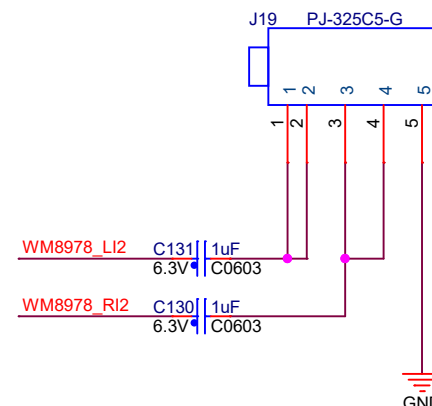


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| Title   |                                   |             |
| 野火STM32F429/F767/H743底板原理图  |                                   |             |
| Size<br>A4  | Document Number<br>SENSOR/KEY/LED | Rev<br>V2.0 |
| Date: Wednesday, December 22, 2021  | Sheet 10 of 12                    |             |

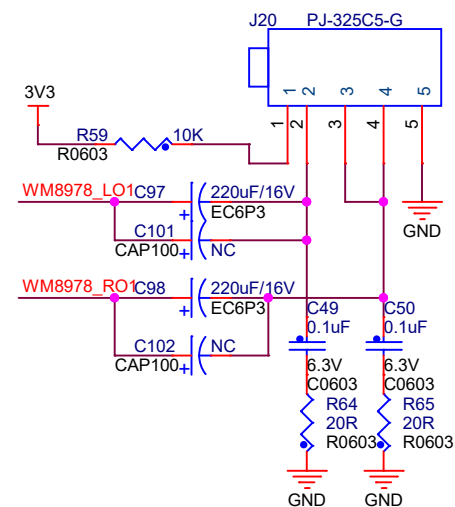
## MIC插头



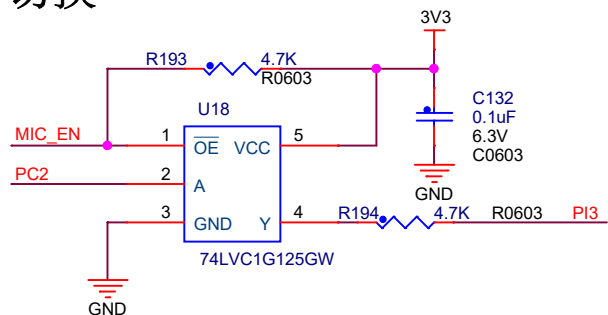
## 音频输入



## 耳机插座

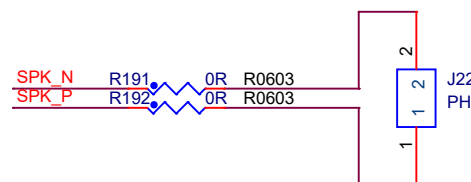


## 录音放音切换



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

## 喇叭插座



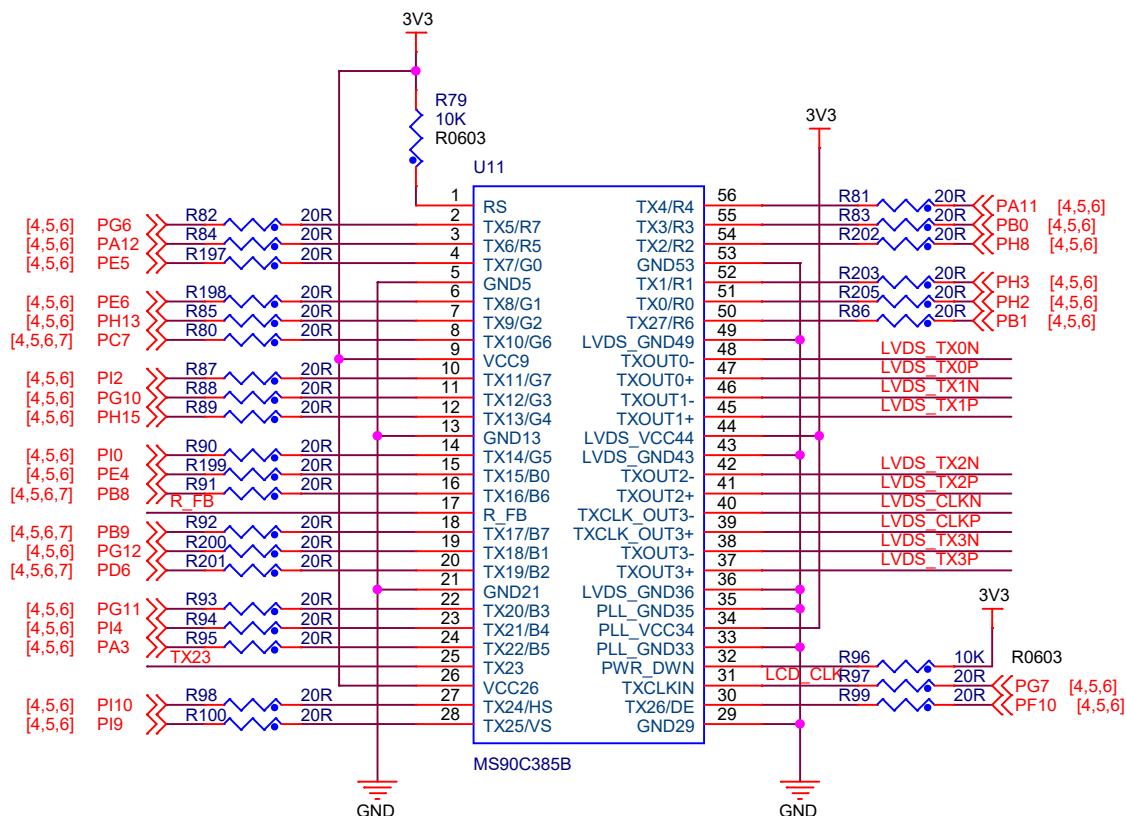
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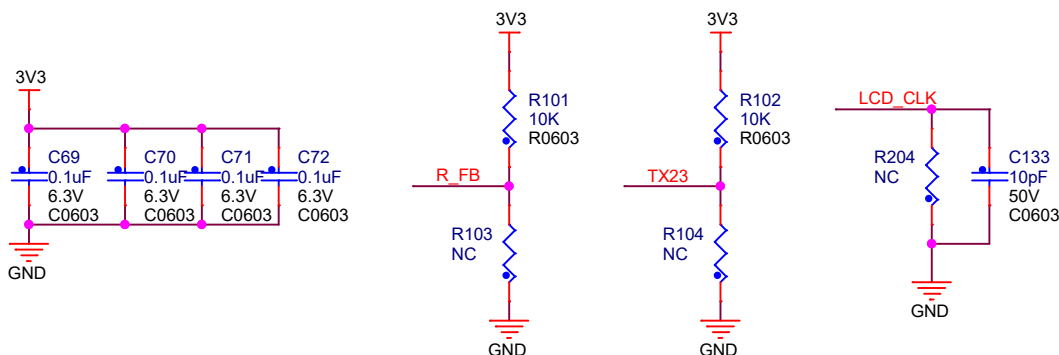
Size A4 Document Number AUDIO Rev V2.0

Date: Wednesday, December 22, 2021 Sheet 11 of 12

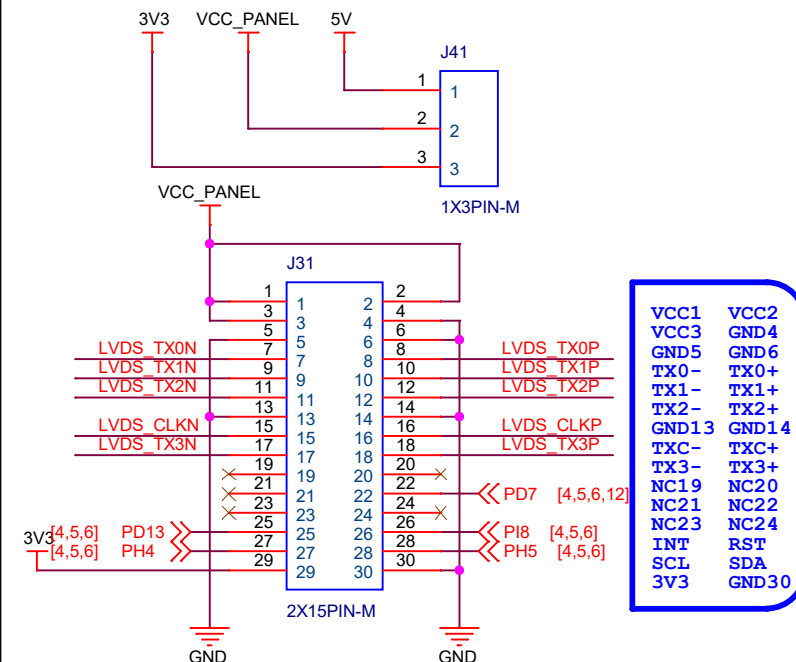
## RGB888转LVDS



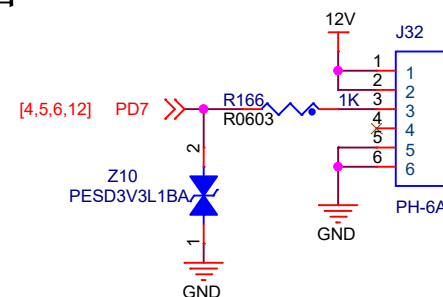
R101 R102  
为NC/10K



## 驱屏接口



## 液晶背光接口



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Title  
野火STM32F429/F767/H743底板原理图

Size A4 Document Number LVDS Rev V2.0

Date: Wednesday, December 22, 2021 Sheet 12 of 12