

野火_F103霸道_原理图_V2.0

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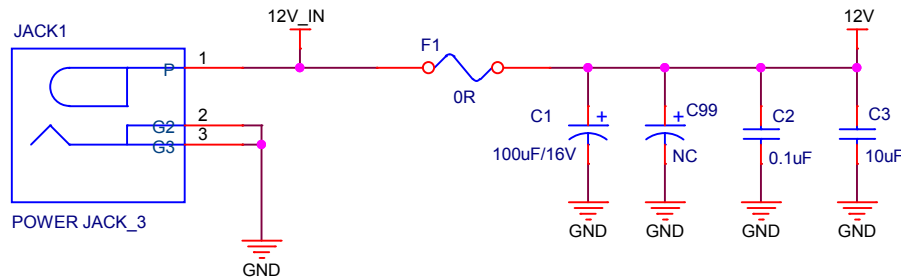
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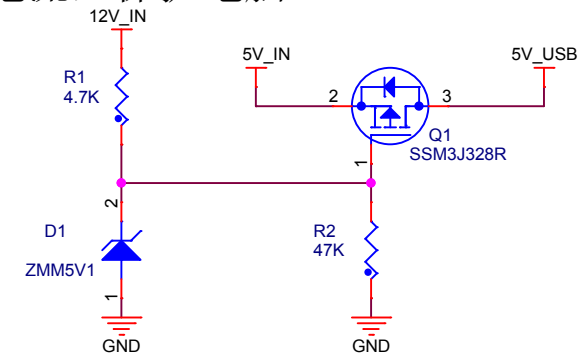
历史版本

| 版本号 | 日期 | 设计 | 描述 |
|------|------------|---------|-----------------------------------|
| V1.0 | 2017-12-1 | cancore | 初始版本 |
| V2.0 | 2018-12-22 | cancore | 更新结构，增加一个RS232串口，增加一个EBF Module接口 |
| | | | |
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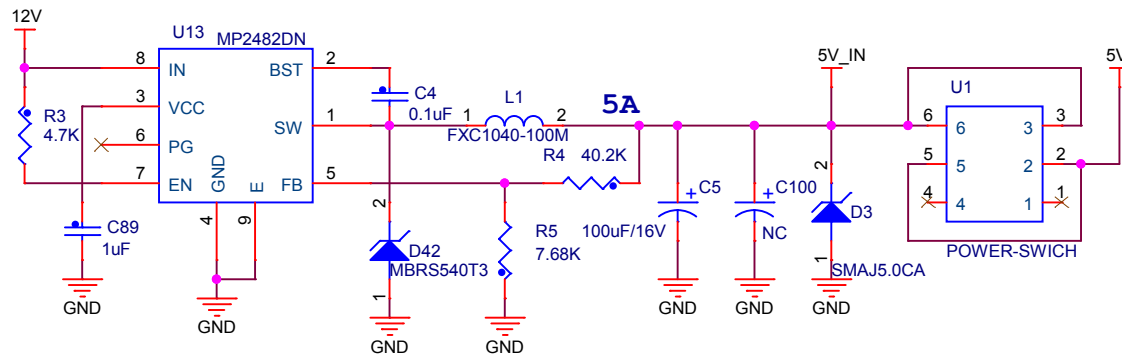
DC IN : 6V~12V



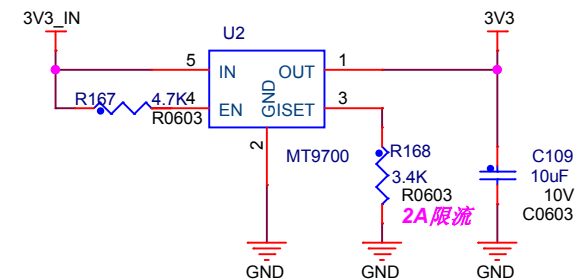
外部电源供电时断开USB供电，
防止灌电流，保护电脑USB口



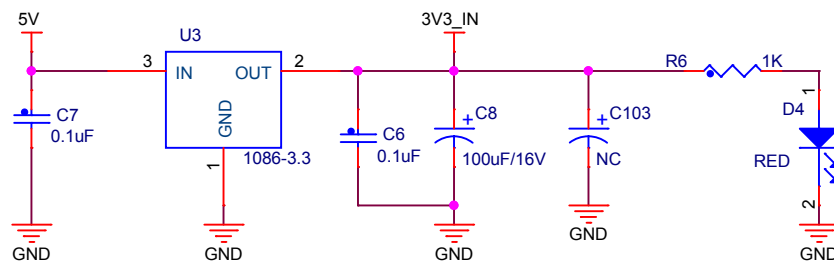
DC/DC 5V



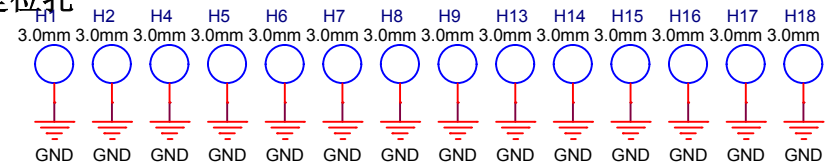
3.3v 输出过流保护



LDO 3.3V

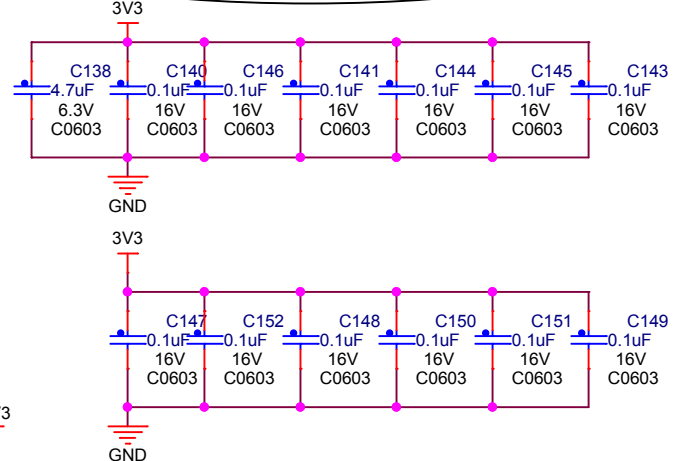
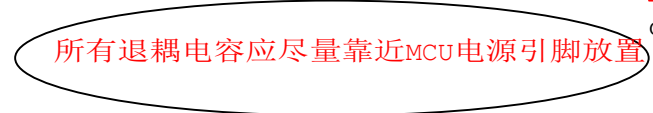


定位孔



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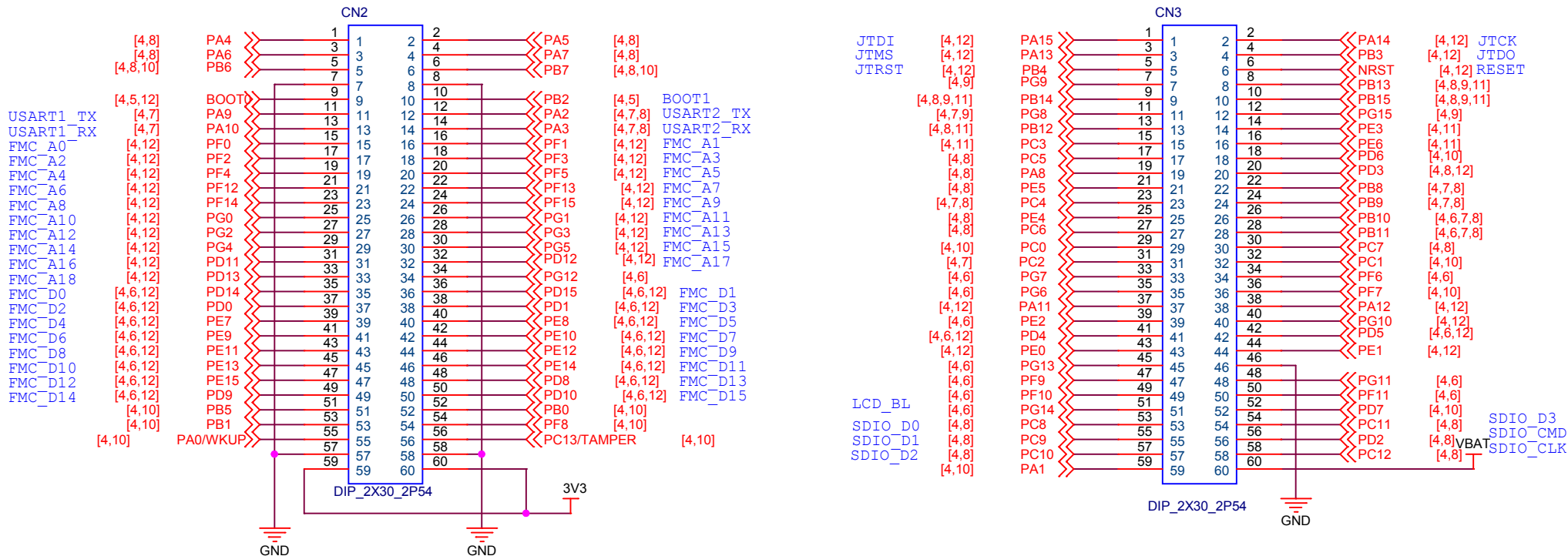
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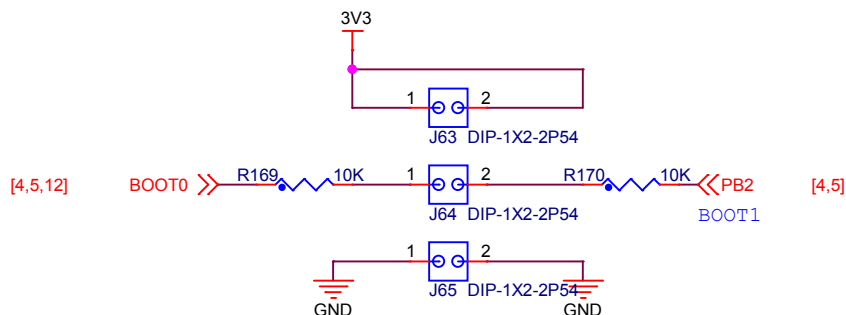
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引出IO口

GPIO引出110个，除了晶振占用4个IO其他全部引出。



设置启动模式

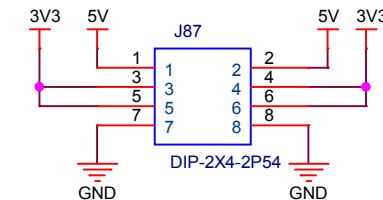


F103 BOOT设置

| 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）

引出电源



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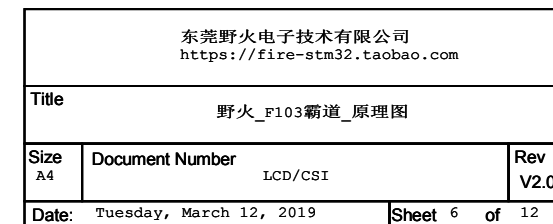
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D



B

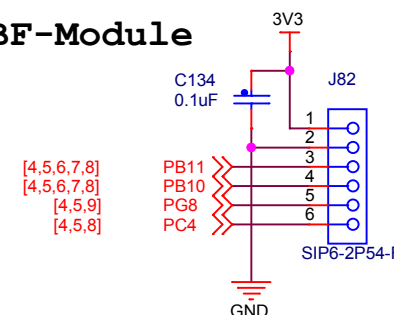
A



C



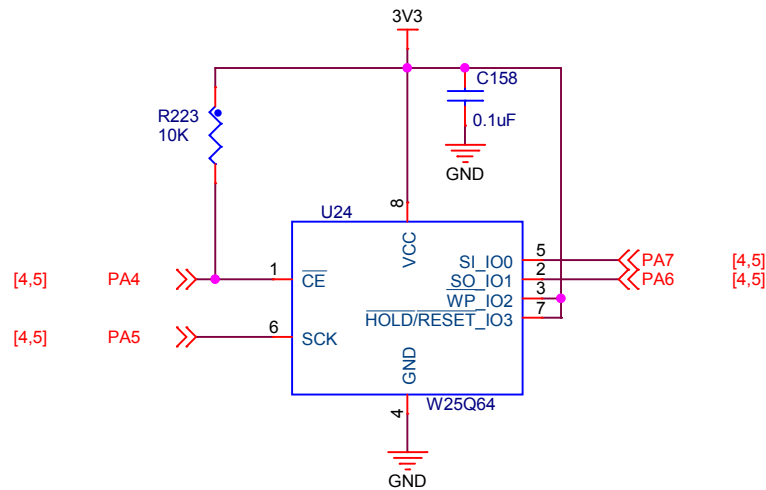
A



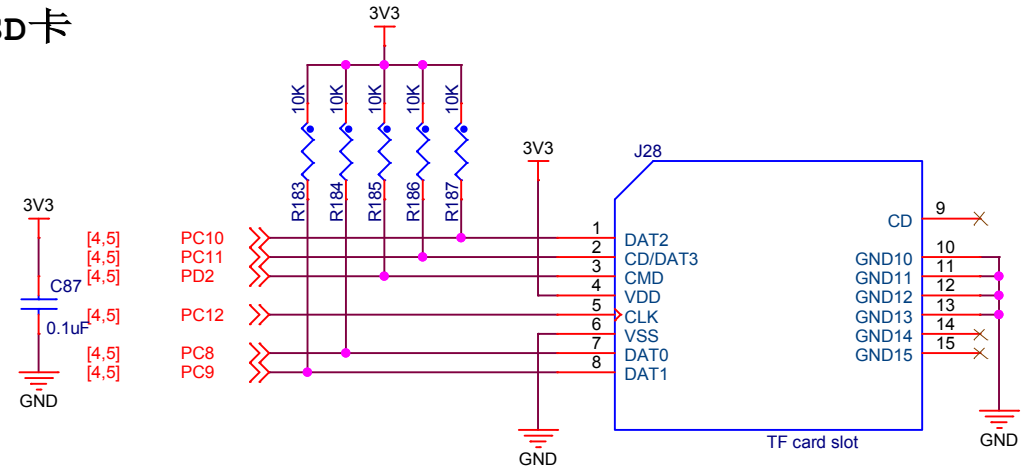
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SPI_FLASH

容量：8M字节

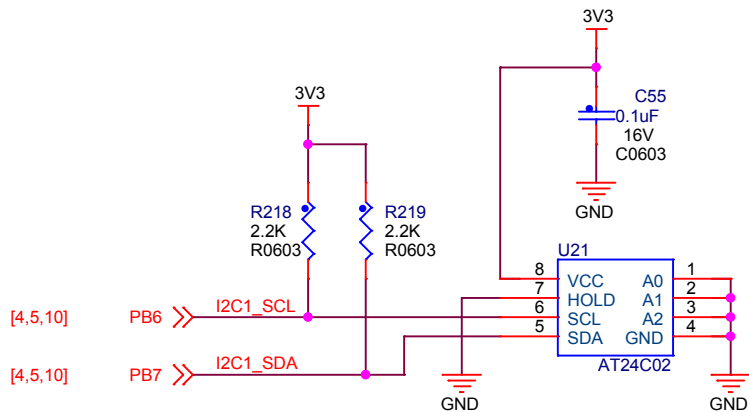


SD卡

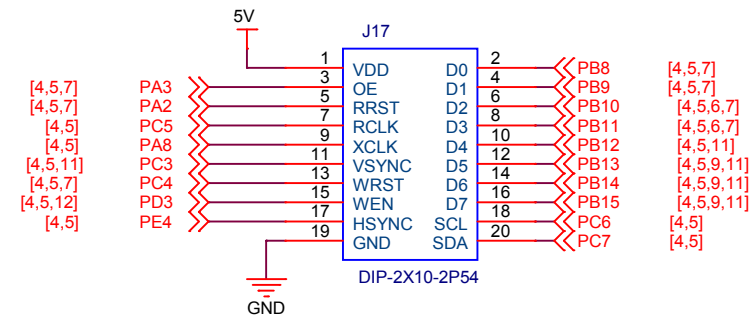


EEPROM

容量：256字节



摄像头接口



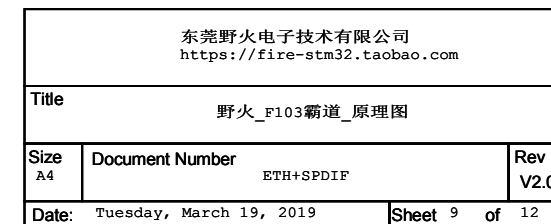
PE4不需要用到
PA8没用到,用有源晶振

使用摄像头时应该断开跳帽J40的1和2脚, 否则会有干扰画面

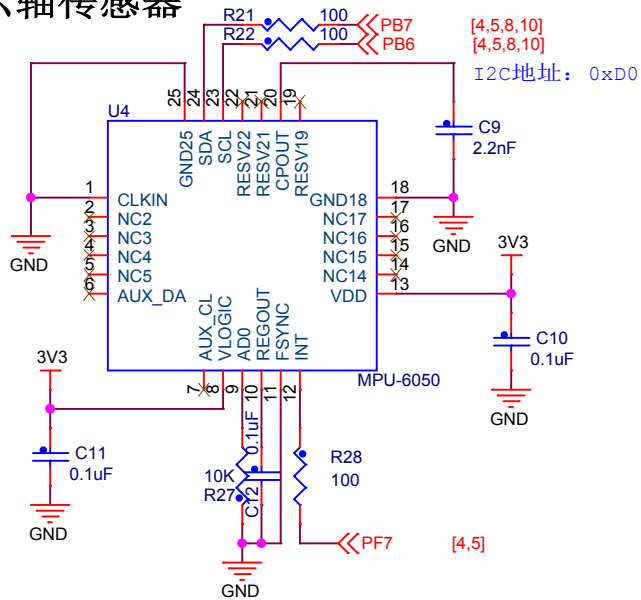
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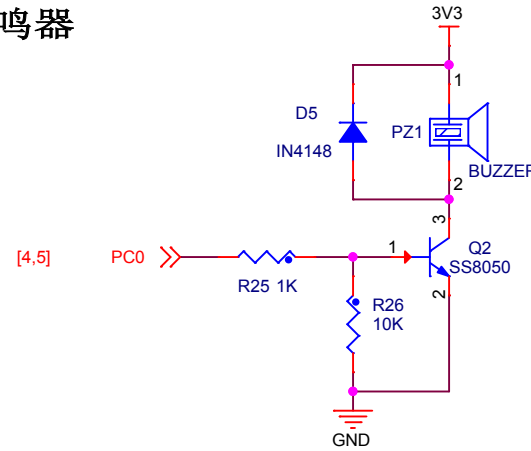
A



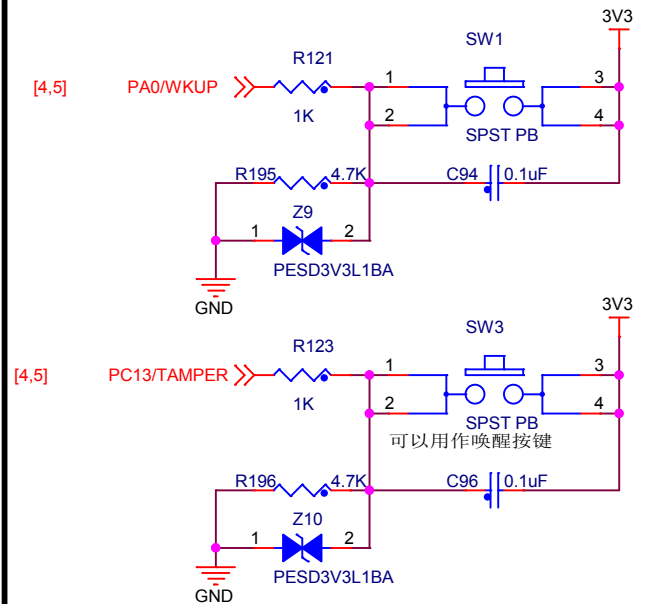
六轴传感器



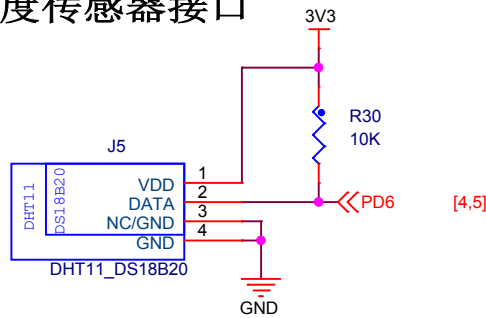
蜂鸣器



按键

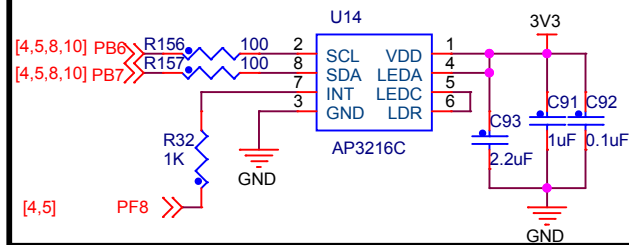


温湿度传感器接口

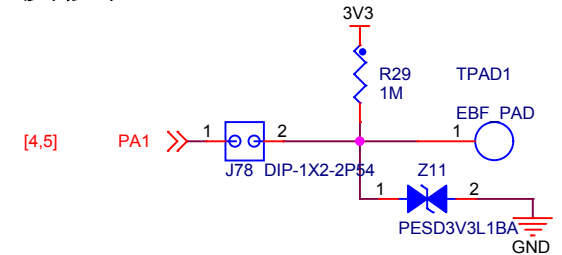


ALS+PS+IRLED (三合一)

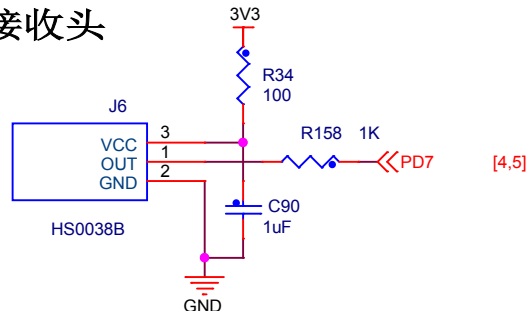
环境光传感器、接近传感器、红外LED三合一



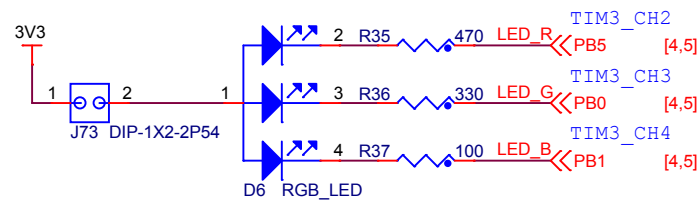
触摸按键



红外接收头



LED

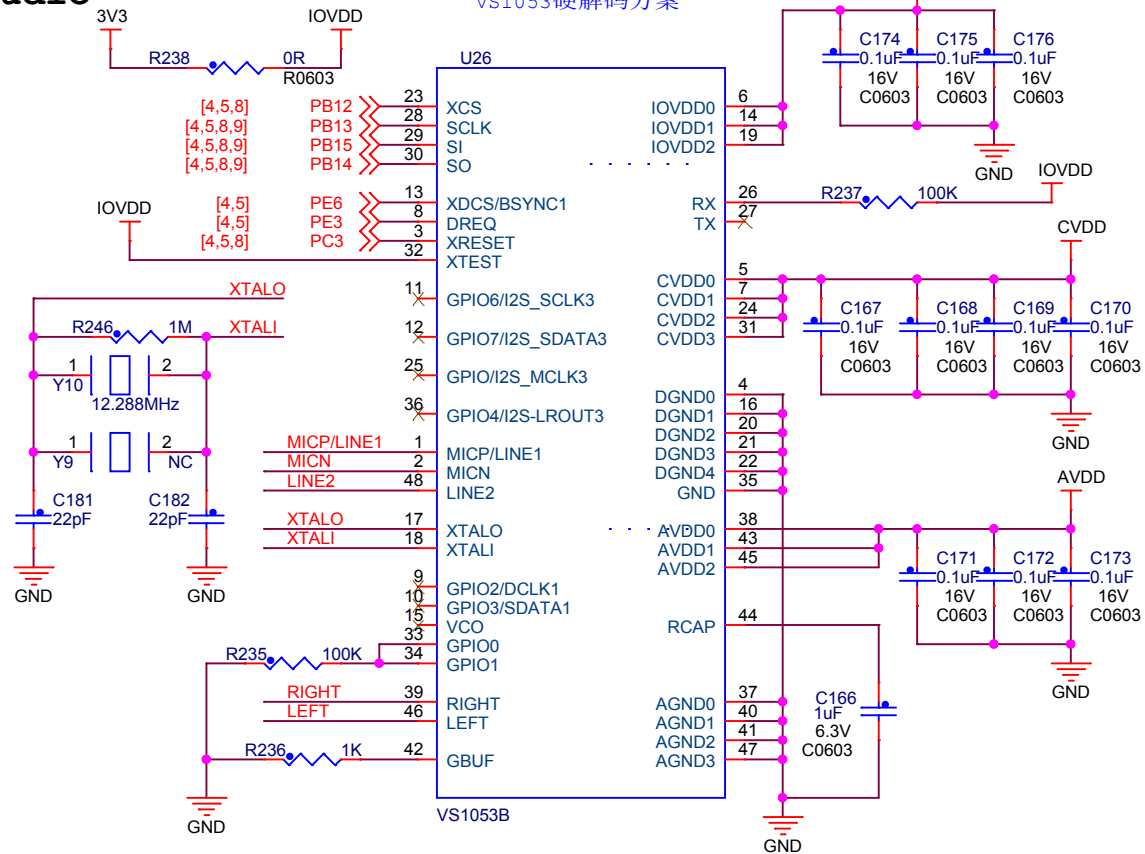


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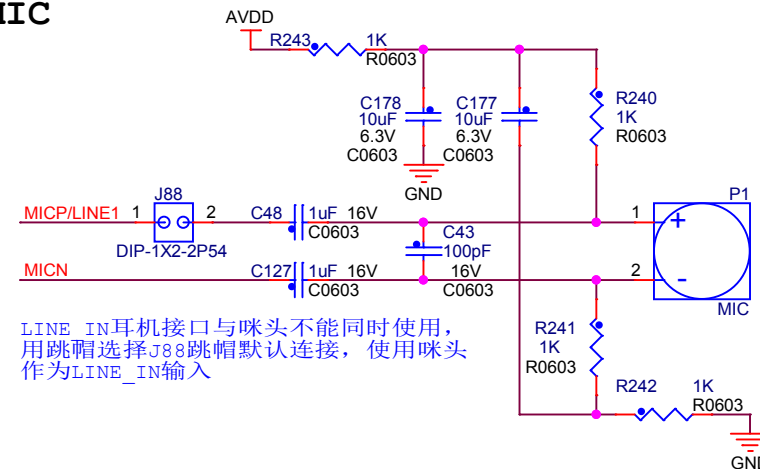
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Audio

VS1053硬解码方案

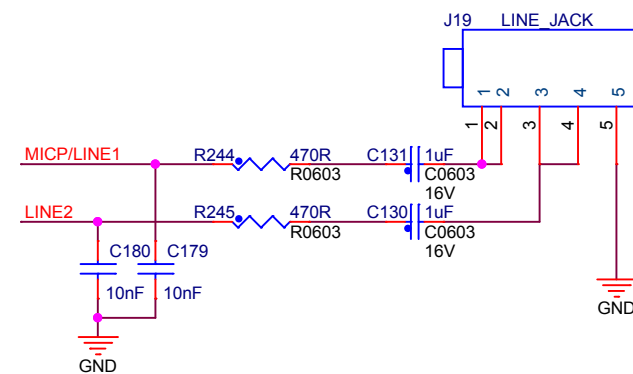


MIC

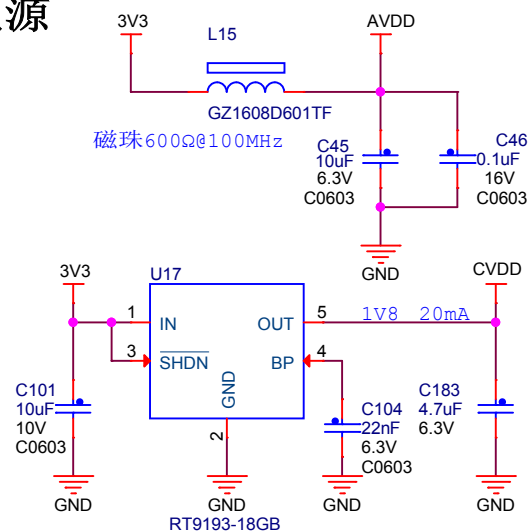


LINE_IN耳机接口与咪头不能同时使用，
用跳帽选择J88跳帽默认连接，使用咪头
作为LINE_IN输入

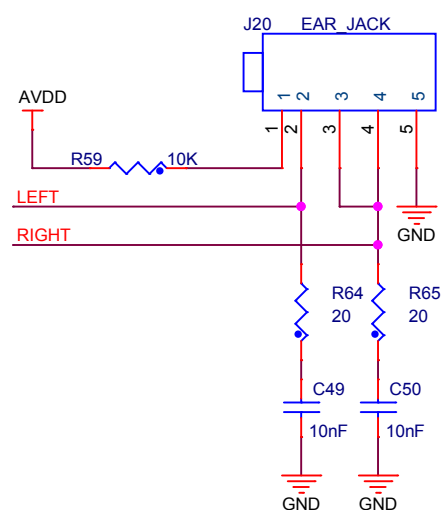
音频输入



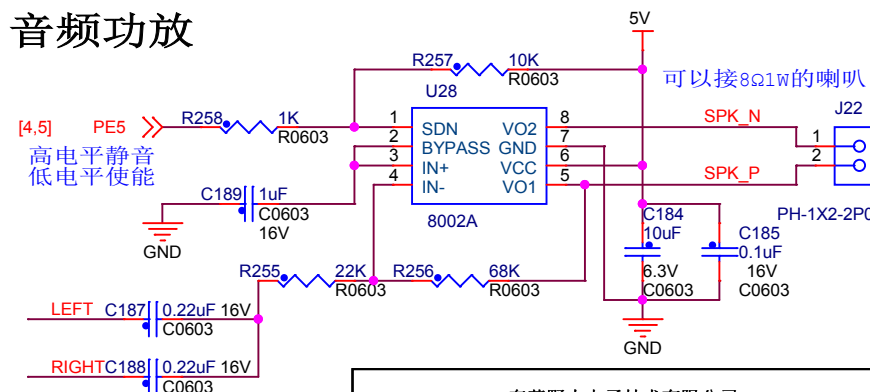
电源



耳机插座



音频功放



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