

野火_F103霸道_原理图_V2.0

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Title 野火_F103霸道_原理图

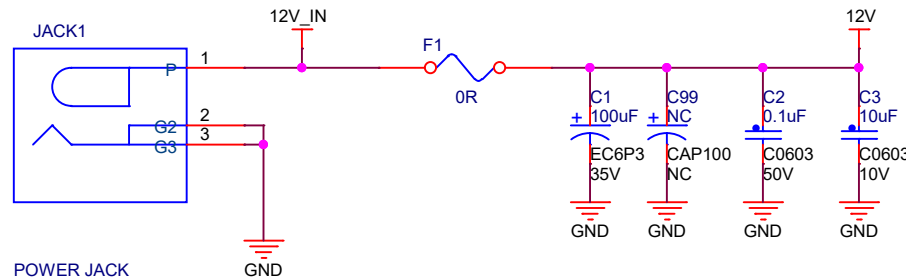
Size A4	Document Number 目录	Rev V2.0
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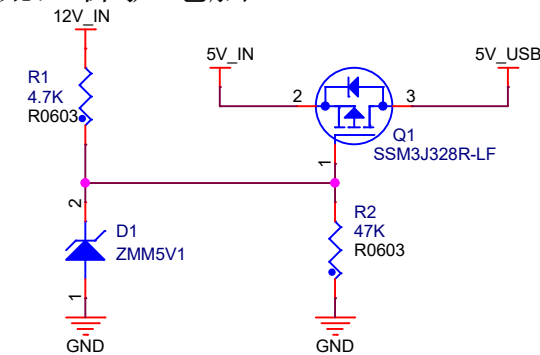
历史版本

版本号	日期	设计	描述
V1.0	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

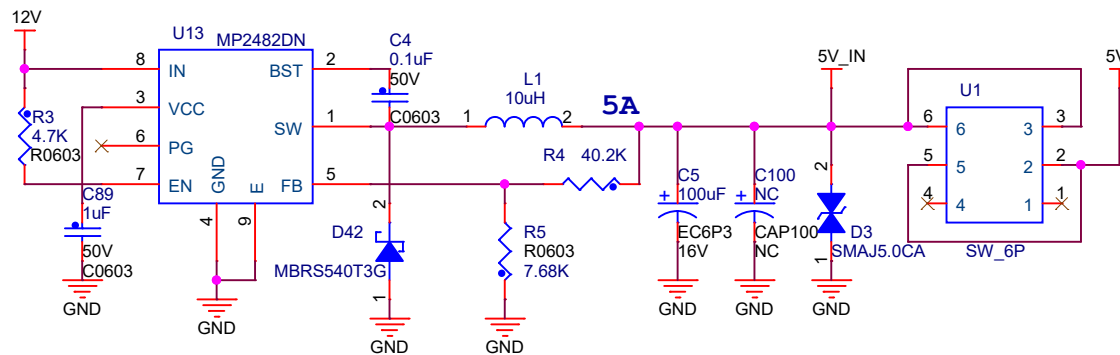
DC IN : 6V~12V



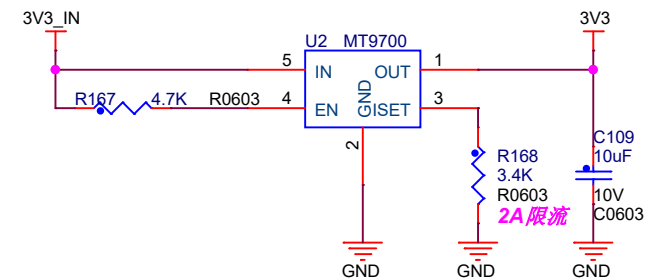
外部电源供电时断开USB供电，
防止灌电流，保护电脑USB口



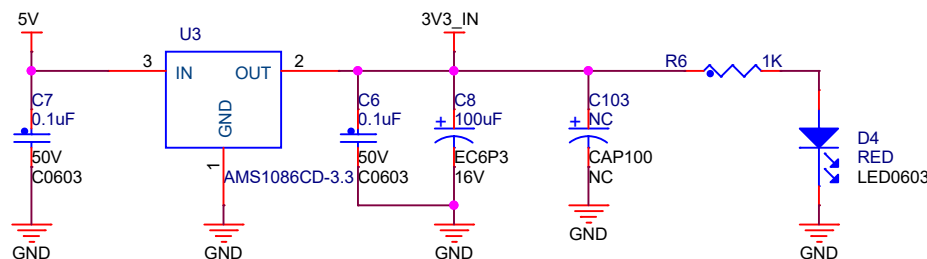
DC/DC 5V



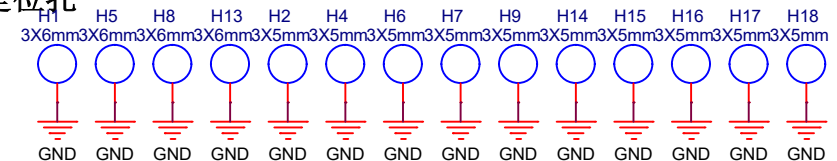
3.3V 输出过流保护



LDO 3.3V



定位孔

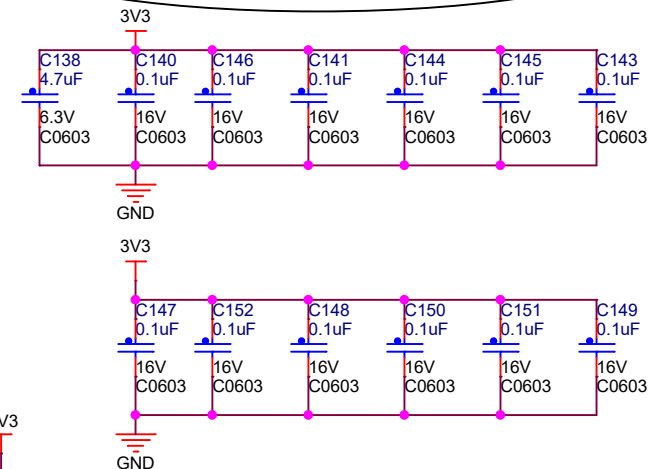
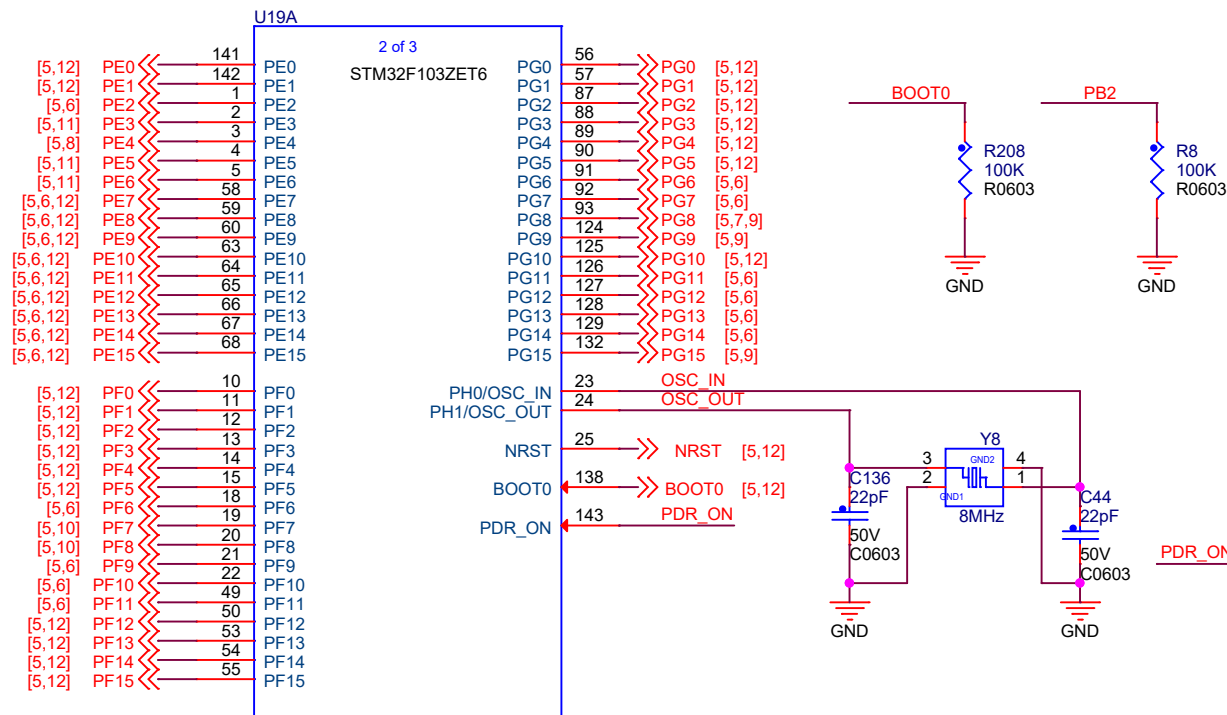
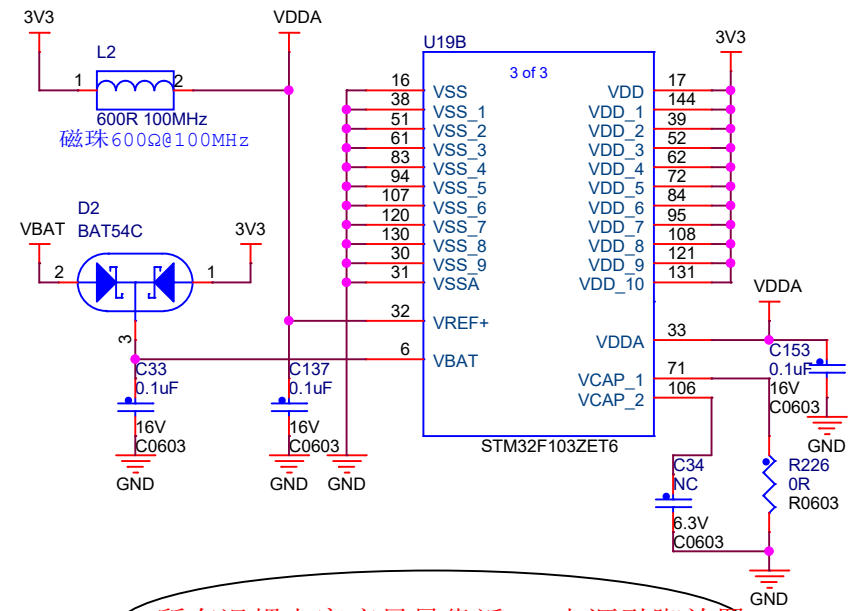
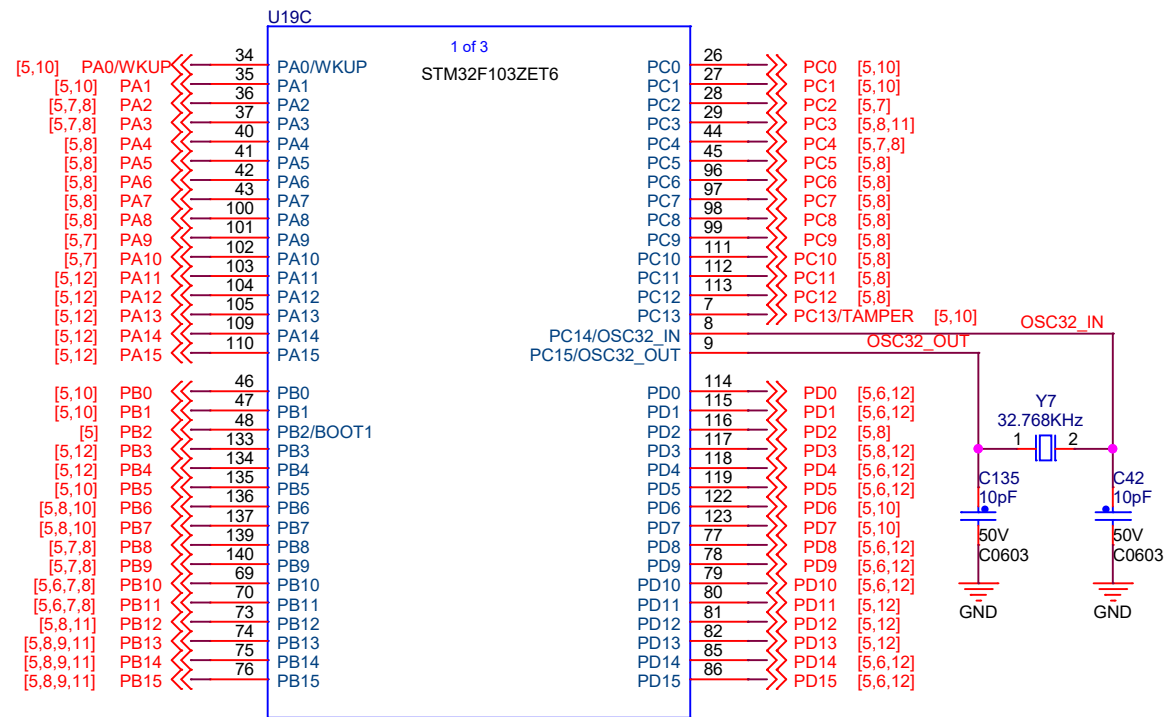


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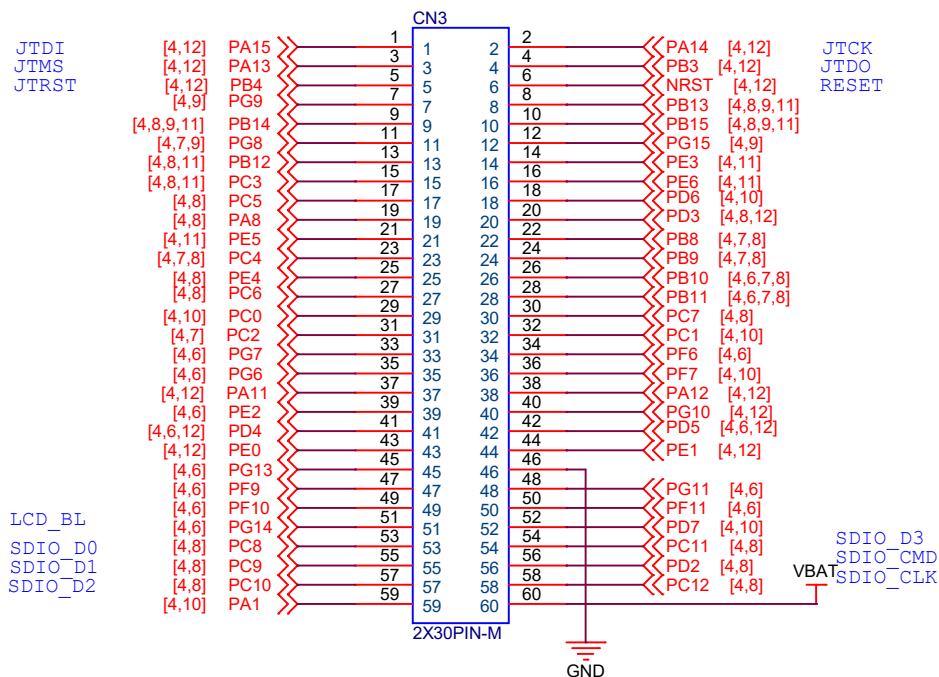
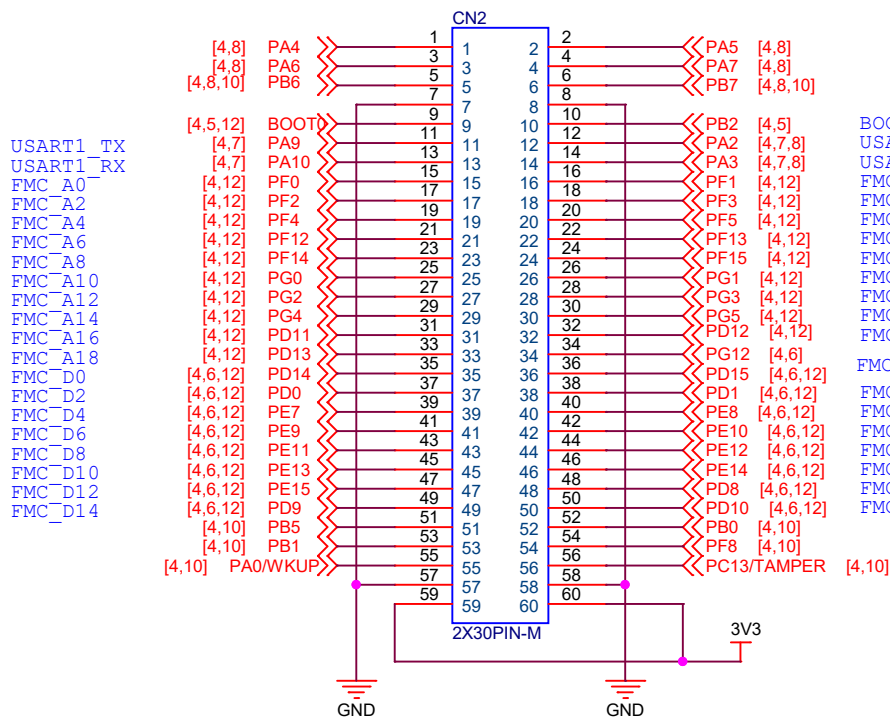
Title 野火_F103霸道_原理图

Size A4	Document Number B2B_Conector	Rev V2.0
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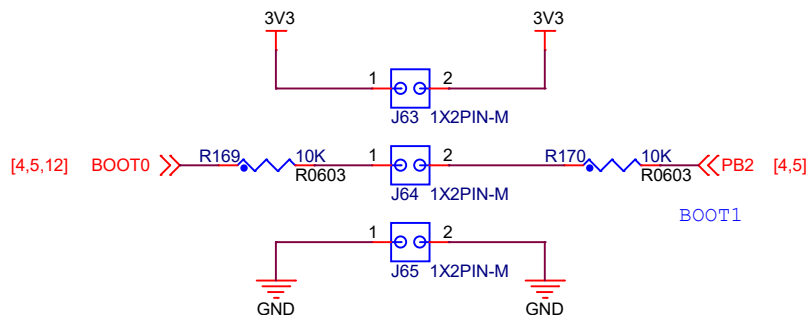
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引出IO口

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

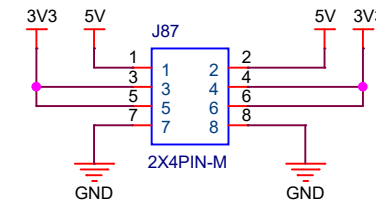


F103 BOOT设置

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



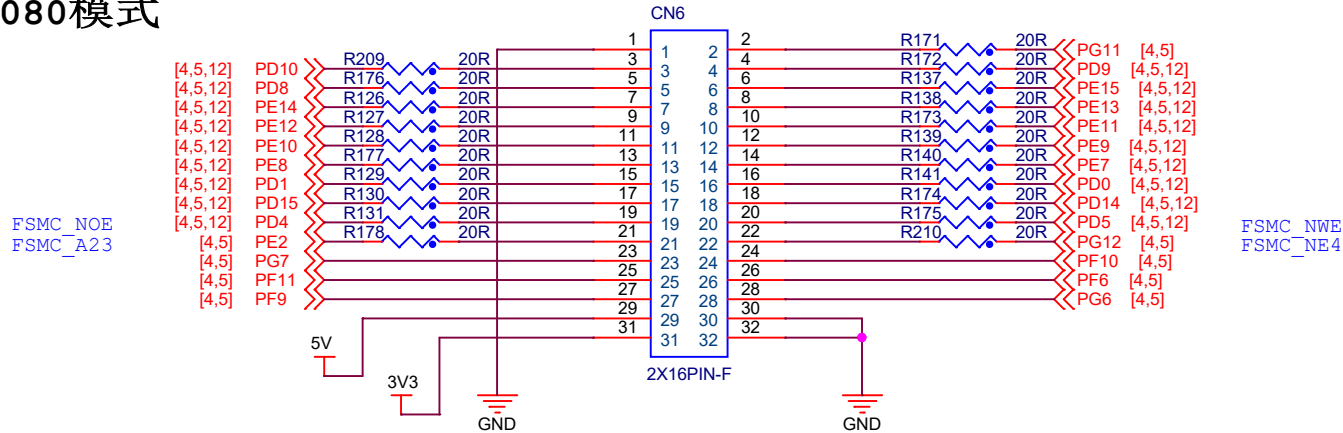
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Size A4 Document Number 引出IO/BOOT Rev V2.0

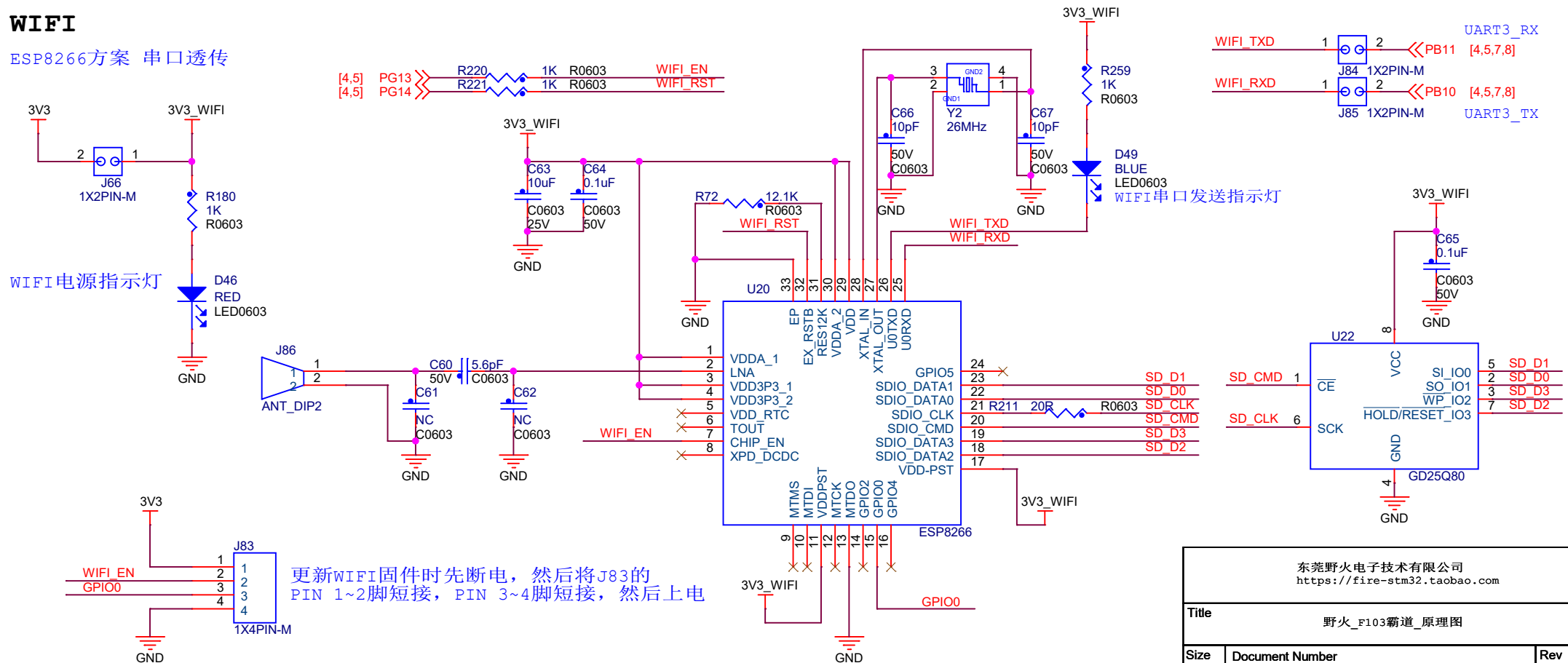
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液晶接口-FSMC-8080模式



WIFI

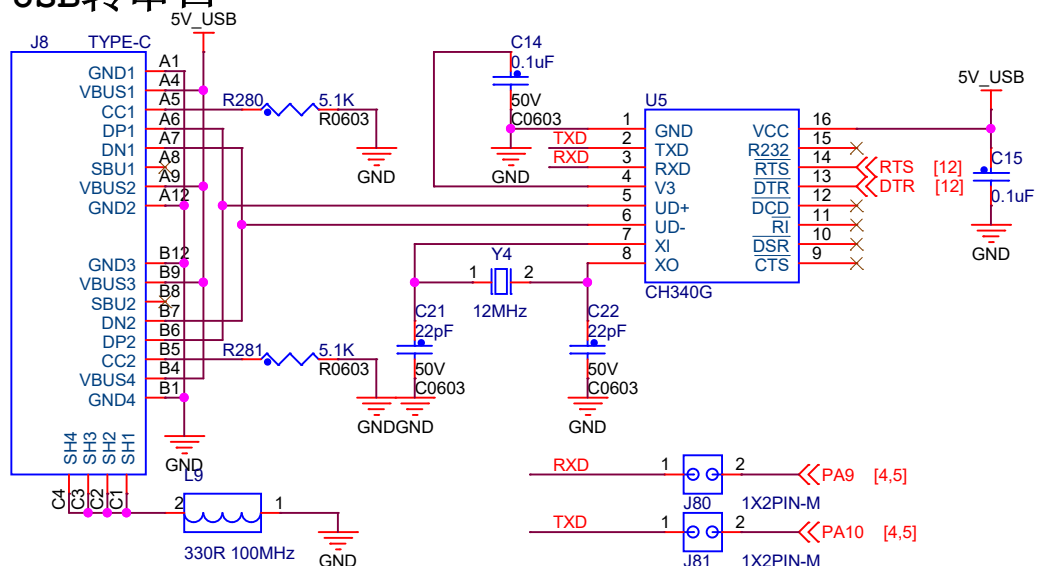
ESP8266方案 串口透传



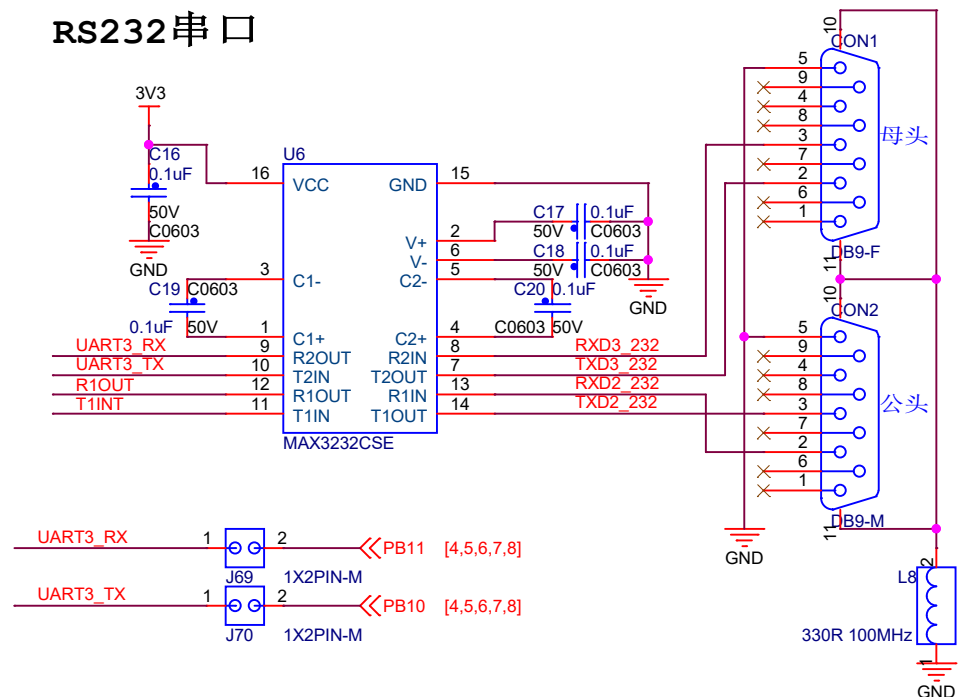
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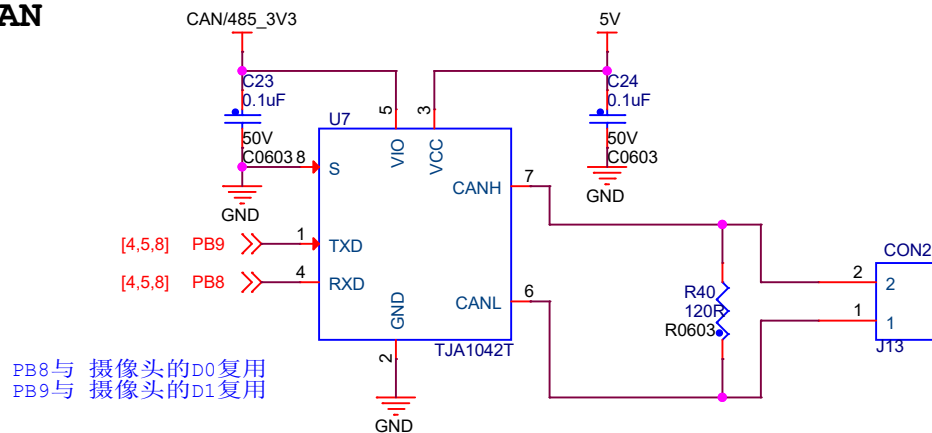
USB转串口



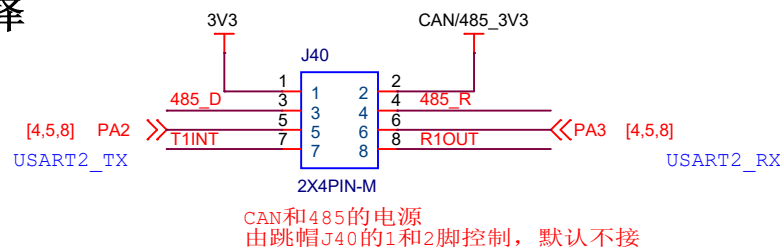
RS232串口



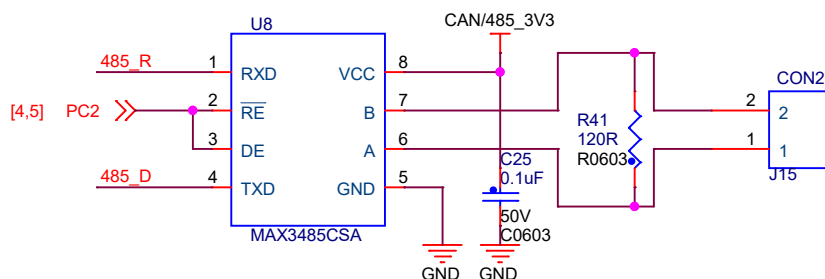
CAN



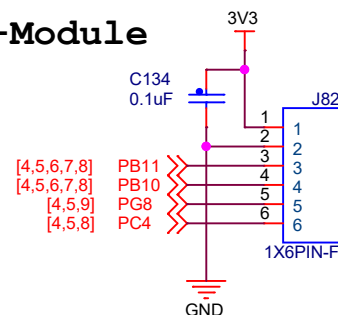
跳帽选择



RS485



EBF-Module



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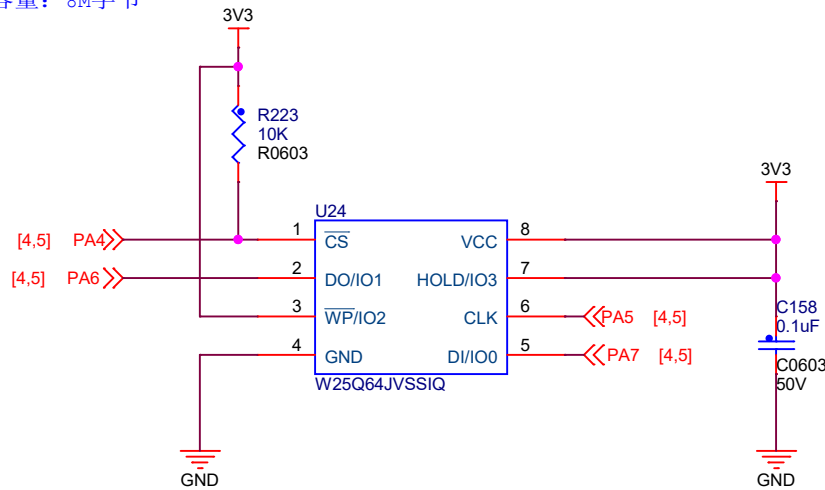
Title 野火_F103霸道_原理图

Size A4 Document Number UART/CAN/RS232/RS485 Rev V2.0

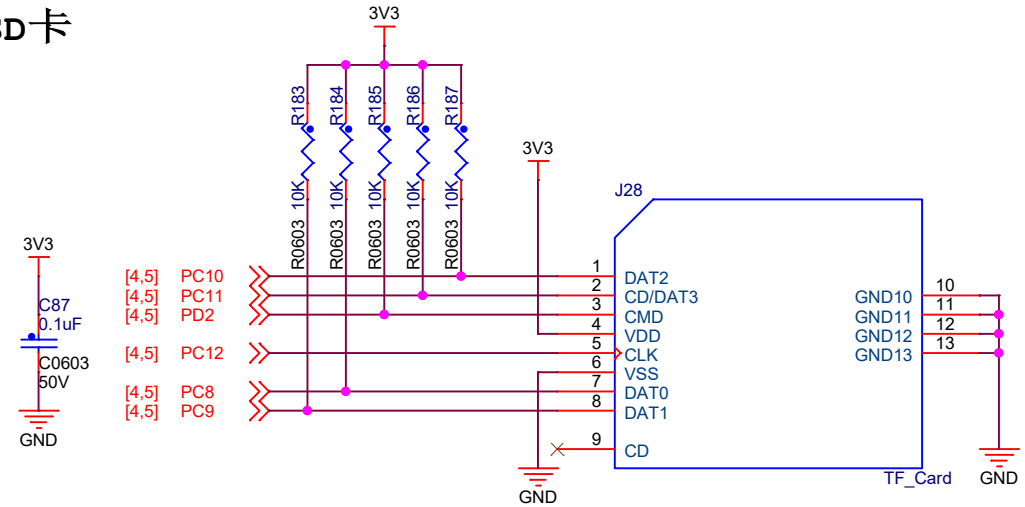
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SPI_FLASH

容量：8M字节

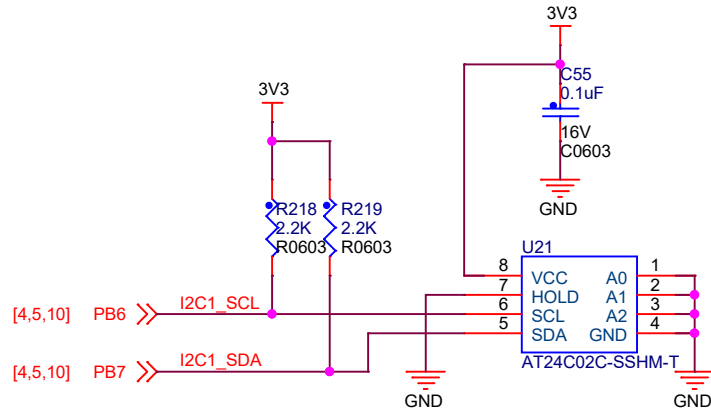


SD卡

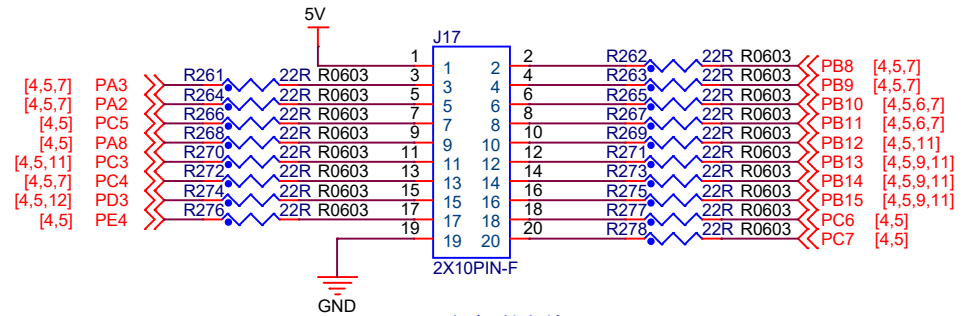


EEPROM

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

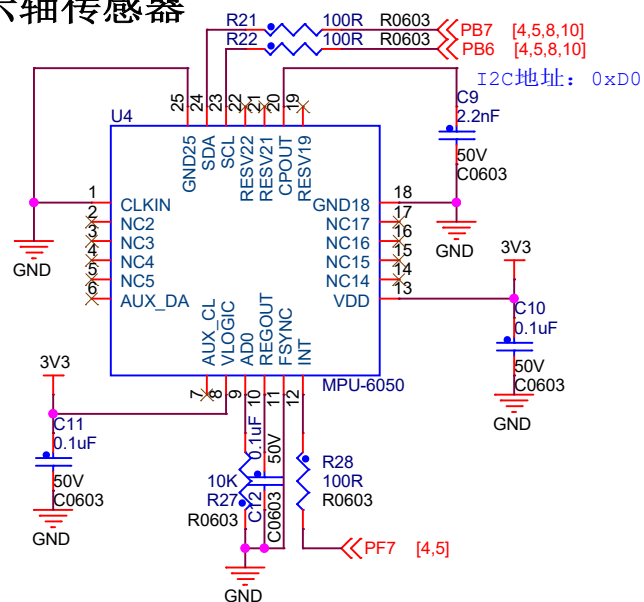
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A4	Camera/SD/SPDIF	V2.0	
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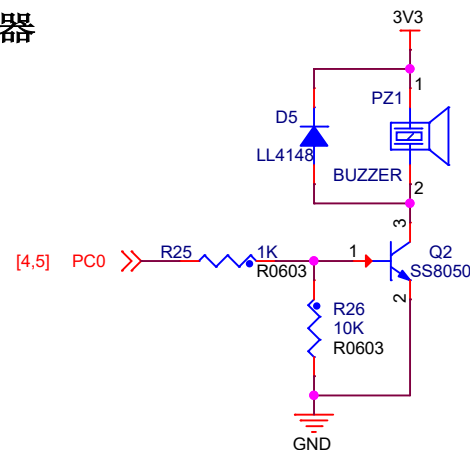
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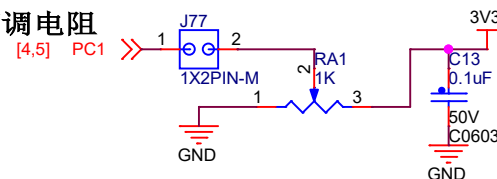
六轴传感器



蜂鸣器

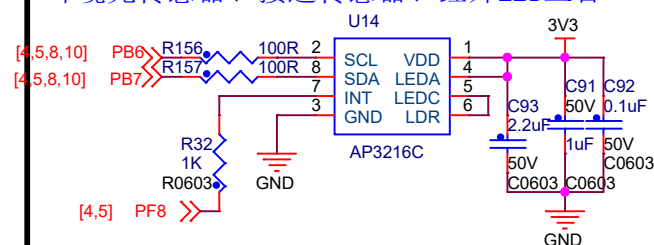


可调电阻

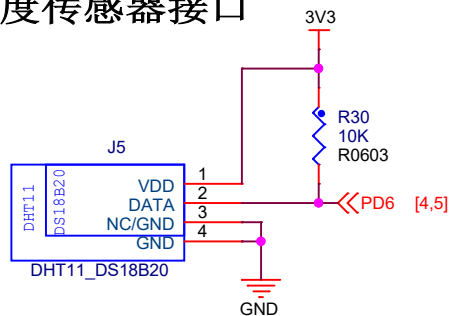


ALS+PS+IRLED (三合一)

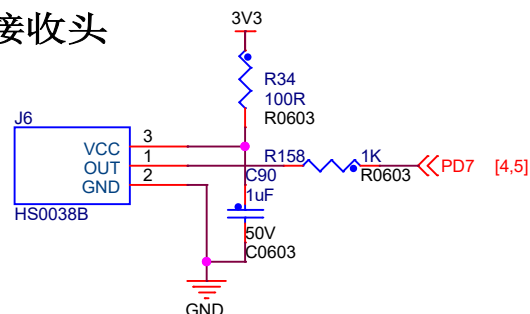
环境光传感器、接近传感器、红外LED三合一



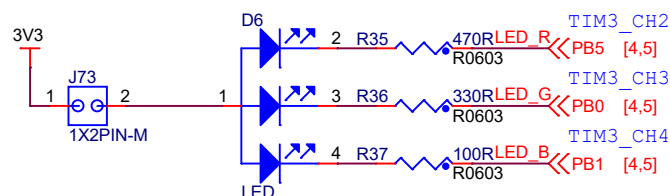
温湿度传感器接口



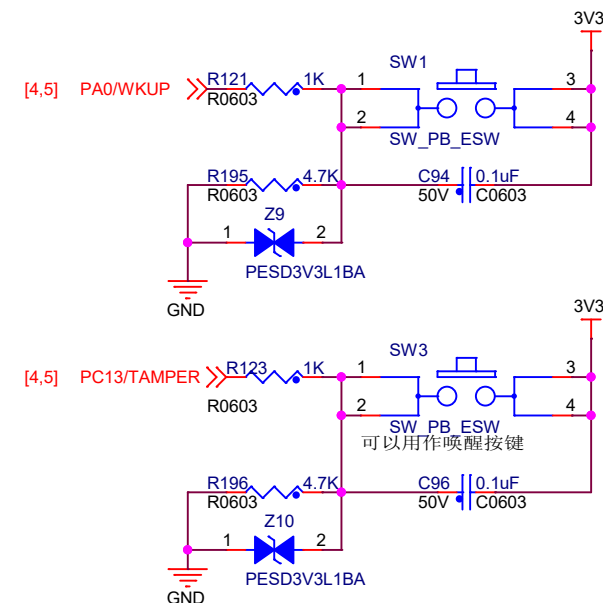
红外接收头



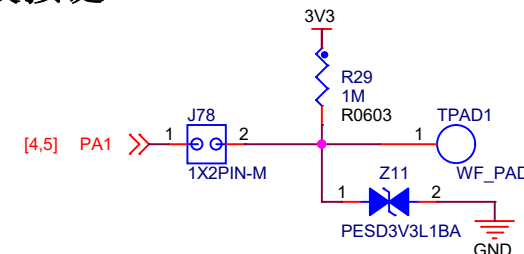
LED



按键



触摸按键



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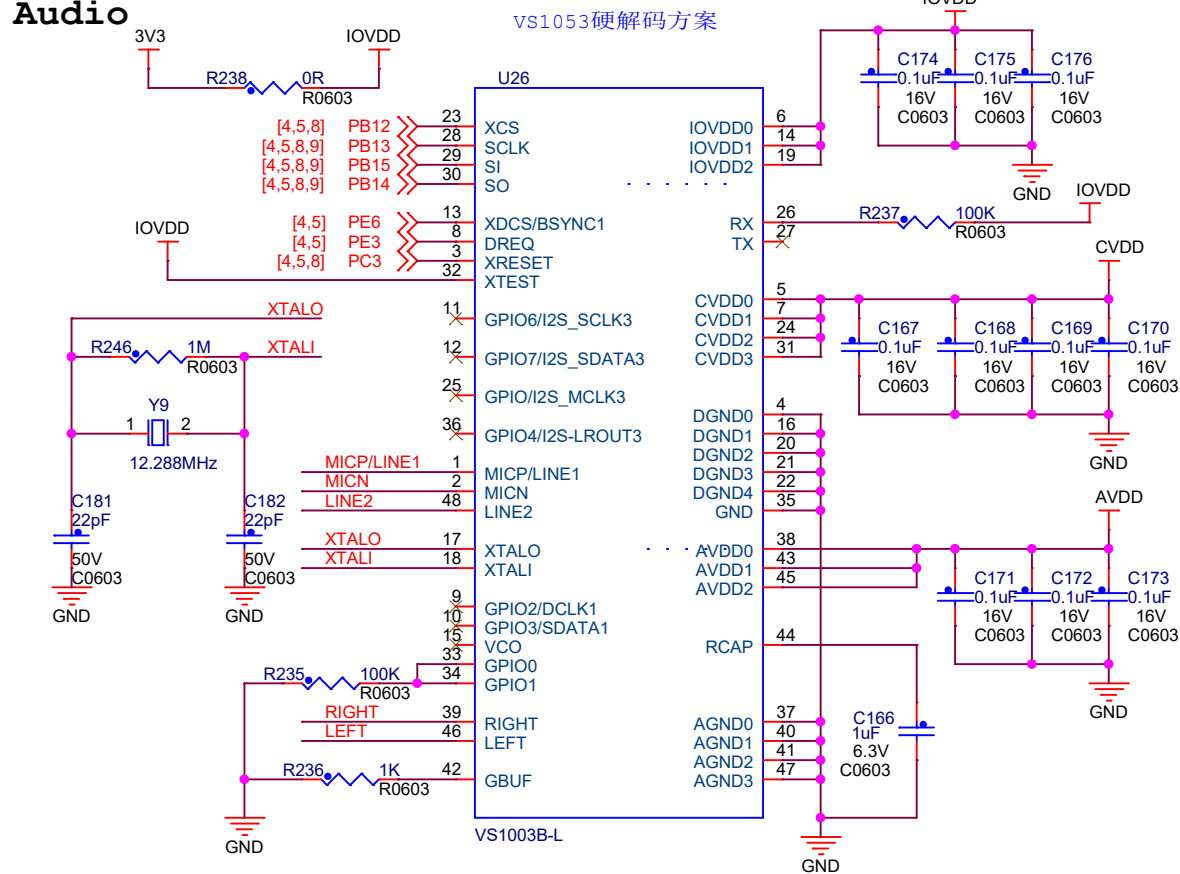
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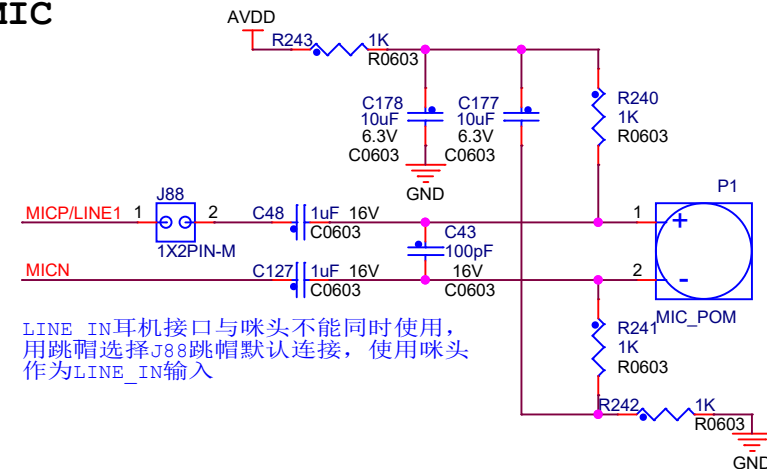
Size A4	Document Number SENSOR/KEY/LED	Rev V2.0
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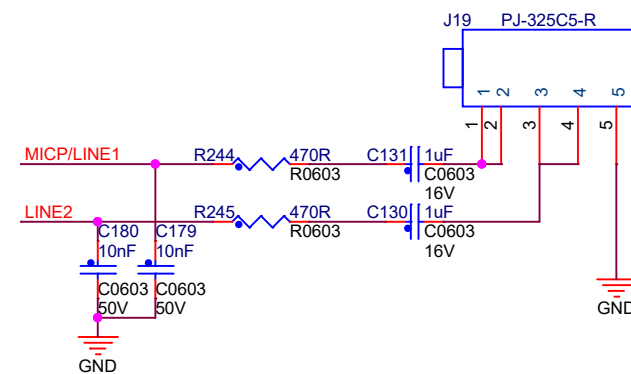
Audio



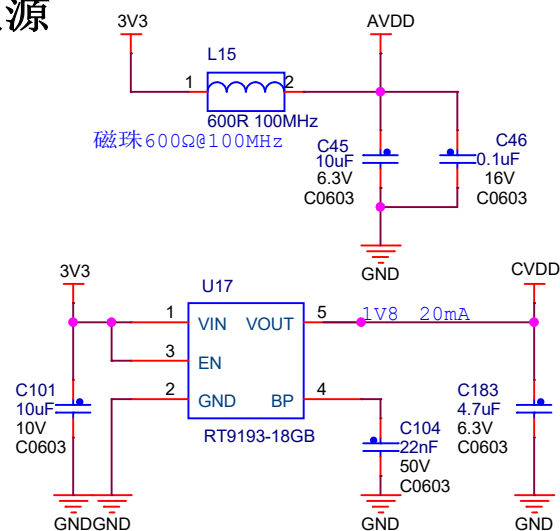
MIC



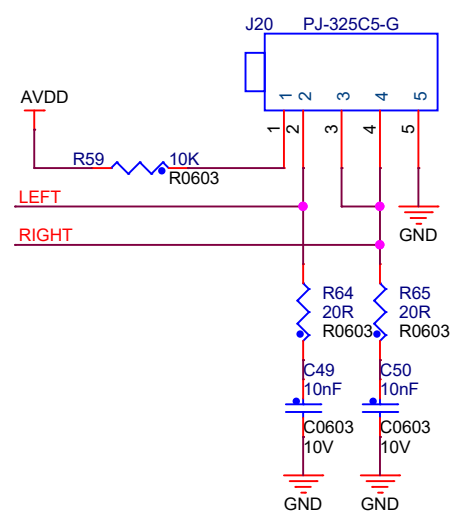
音频输入



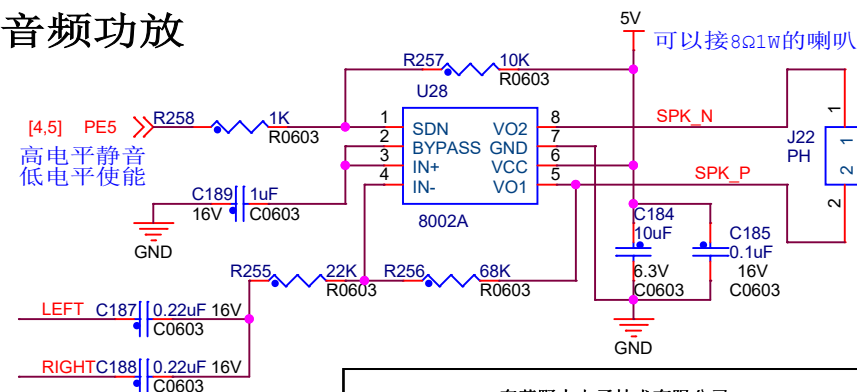
电源



耳机插座



音频功放



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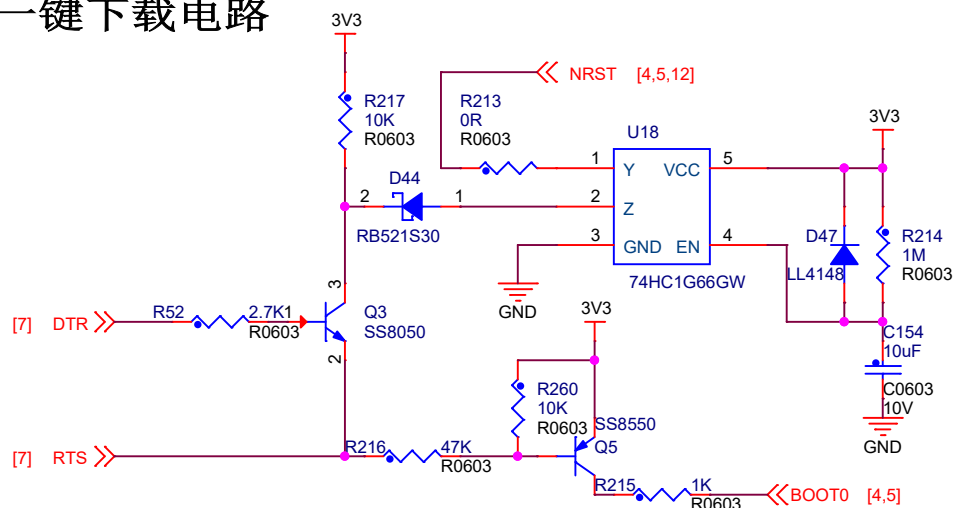
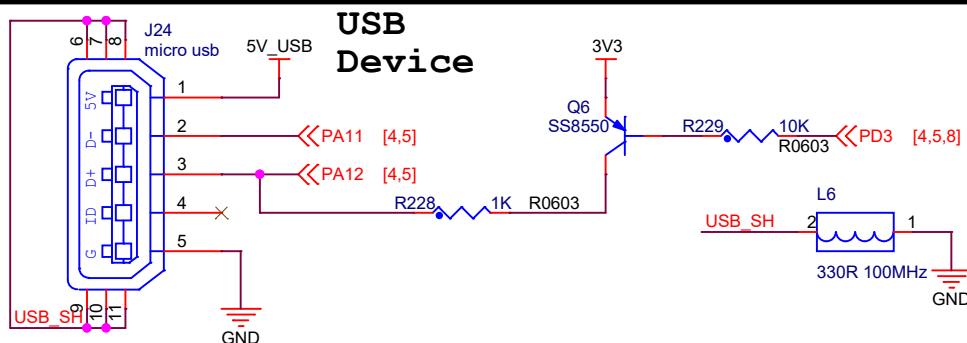
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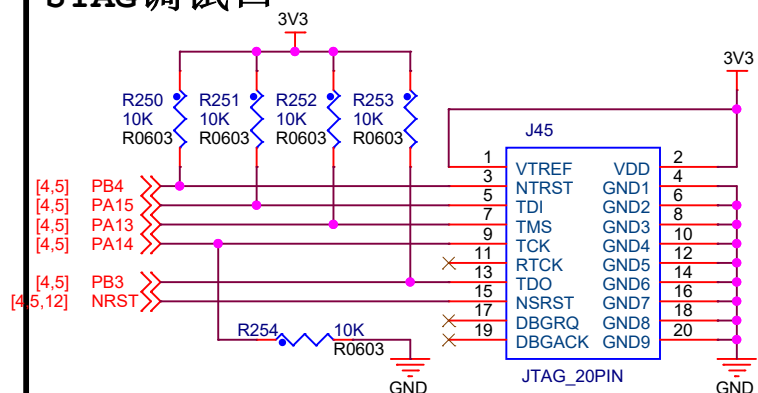
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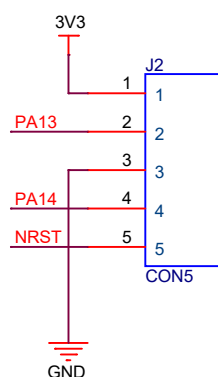
ISP一键下载电路

USB
Device

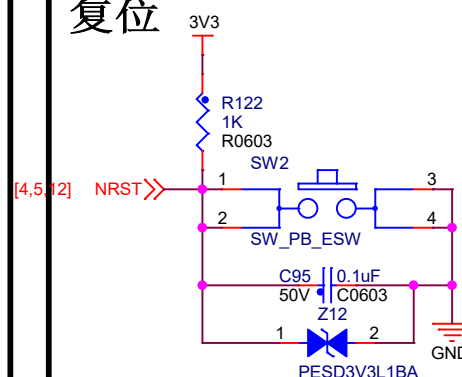
JTAG调试口



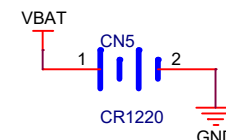
SWD调试口



复位



RTC 电池



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Title	
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野火 F103霸道 原理图

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A4

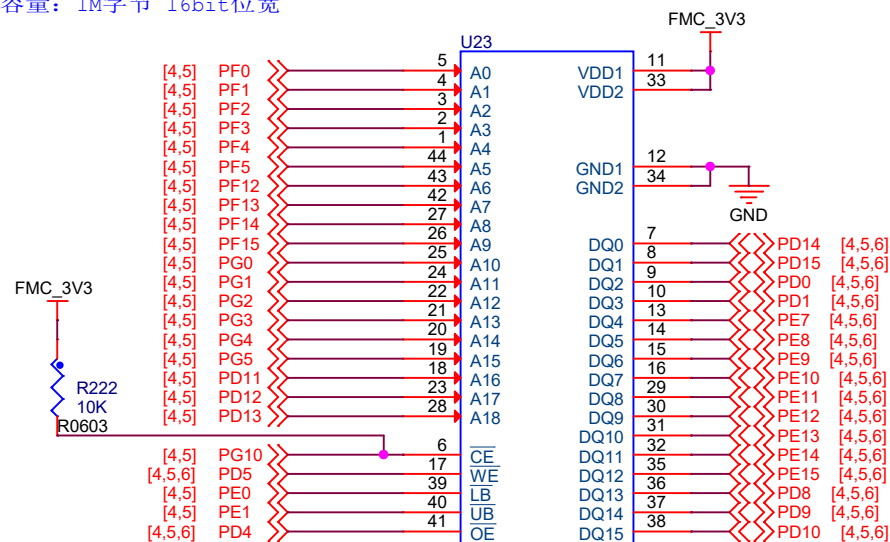
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SRAM

容量: 1M字节 16bit位宽



替代型号:IS62WV51216BLL-55TLI

