

野火_F407霸天虎_原理图_v2.0

目录

Page 1	目录
Page 2	历史版本
Page 3	主电源
Page 4	MCU_GPIO
Page 5	引出IO/启动设置
Page 6	液晶屏/WIFI
Page 7	串口/RS485/CAN
Page 8	摄像头/SPI闪存/EEPROM
Page 9	以太网
Page 10	传感器/按键/LED
Page 11	音频
Page 12	SRAM/ISP/USB/JTAG/SWD

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Title 野火_F407霸天虎_原理图

Size A4	Document Number 目录	Rev V2.0
Date: Thursday, June 01, 2023		Sheet 1 of 12

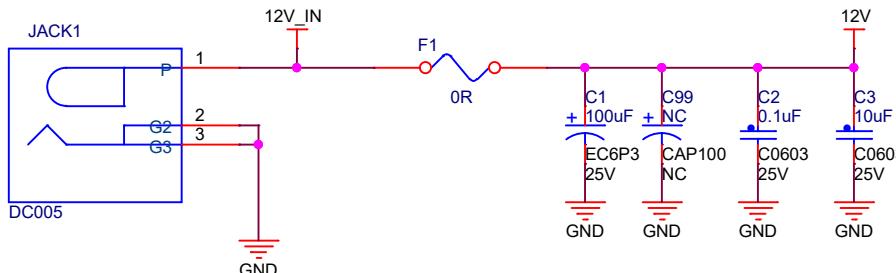
历史版本

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
V2.1	2024-08-26	LPC	更新 CAN 485 232 的替代料

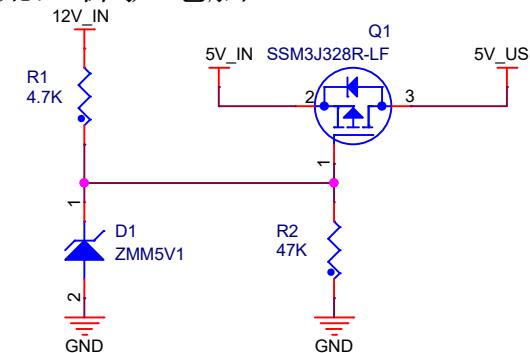
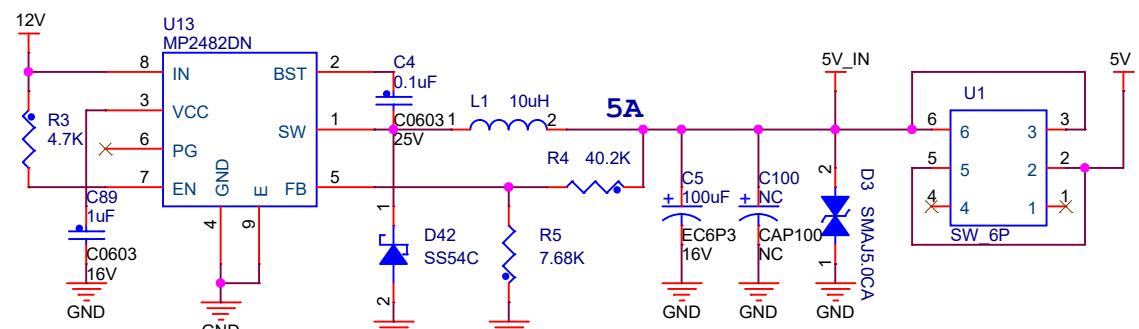
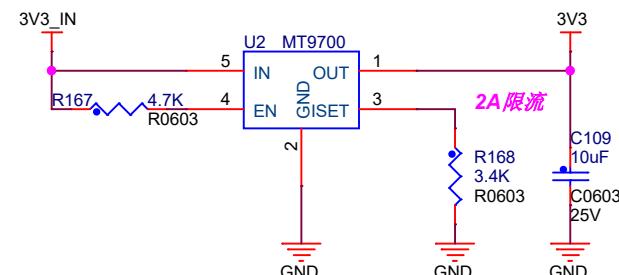
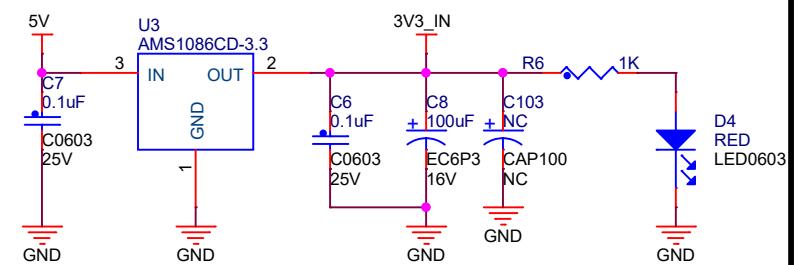
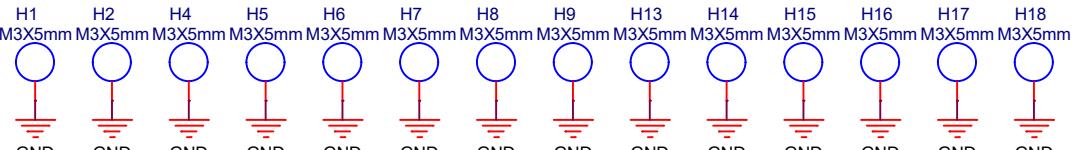
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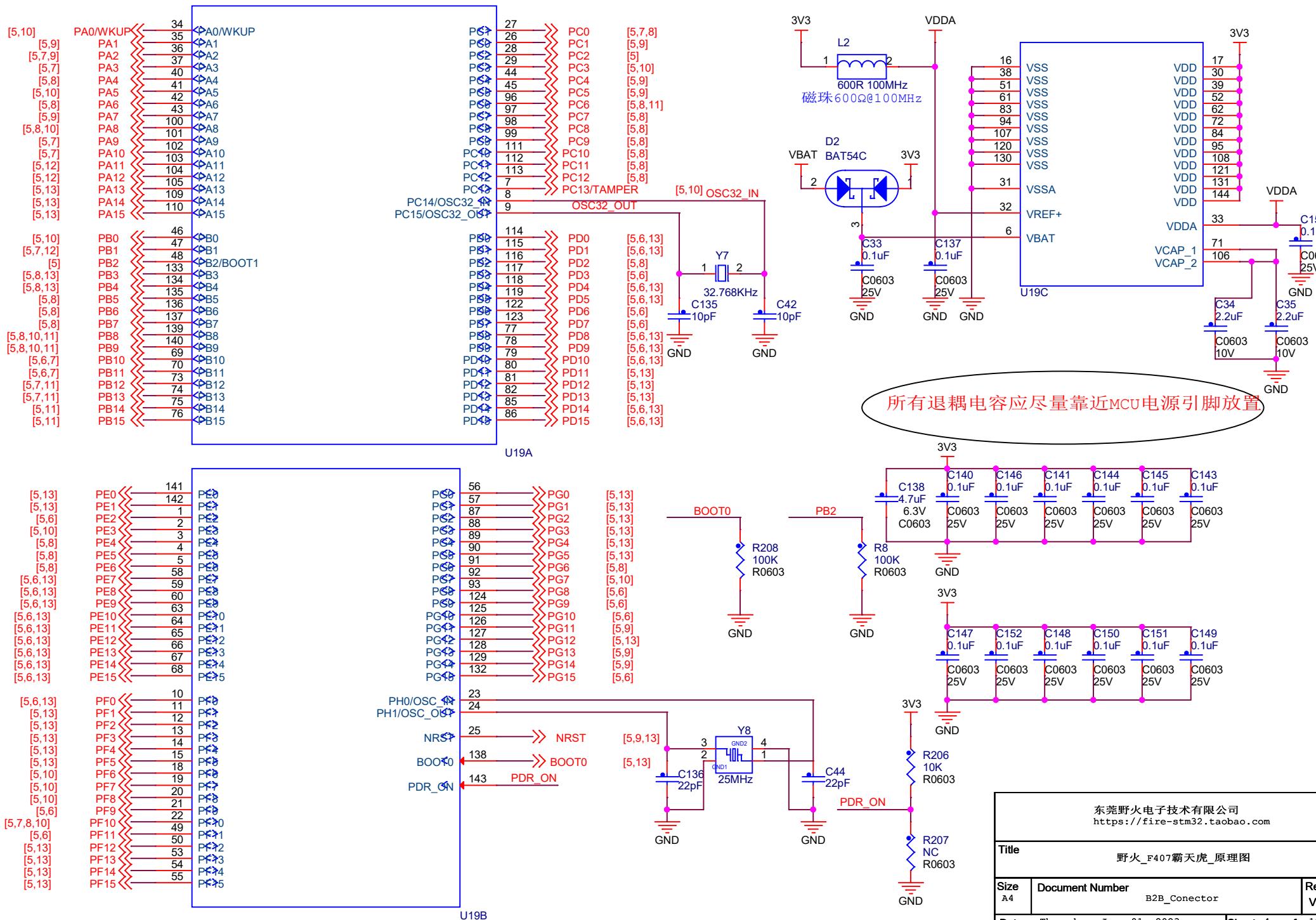
Title 野火_F407霸天虎_原理图

Size A4	Document Number 历史版本	Rev V2.0
Date: Monday, August 26, 2024		Sheet 2 of 12

DC IN : 6V~12V

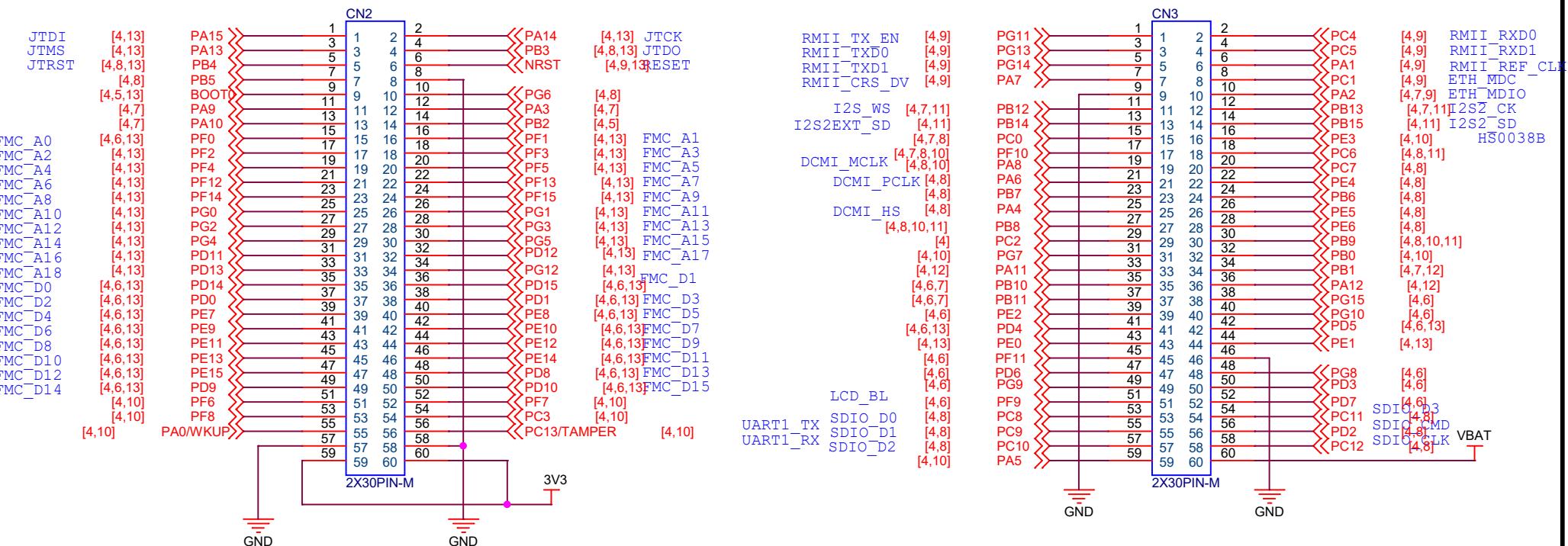
外部电源供电时断开USB供电，
防止灌电流，保护电脑USB口

**DC/DC 5V****3.3V 输出过流保护****LDO 3.3V****定位孔**

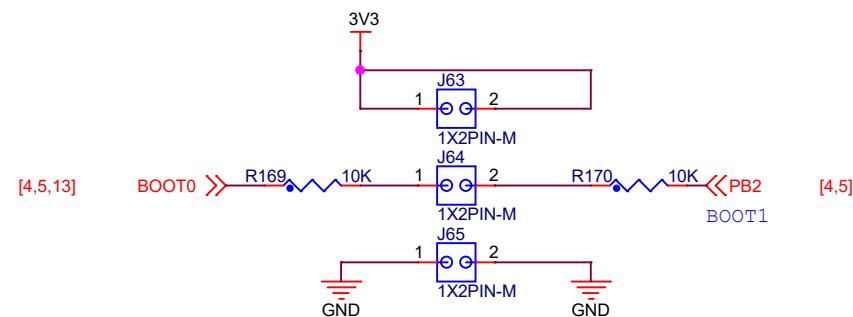


引出IO口

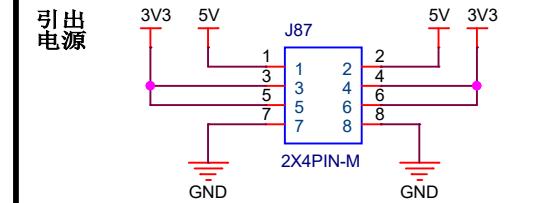
GPIO引出110个，除了晶振占用4个IO其他全部引出。



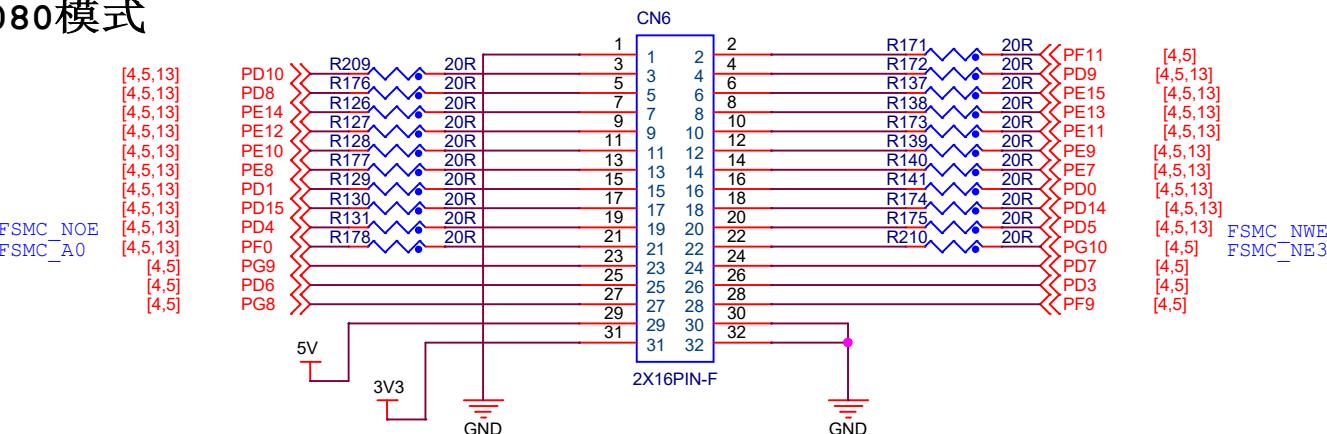
设置启动模式



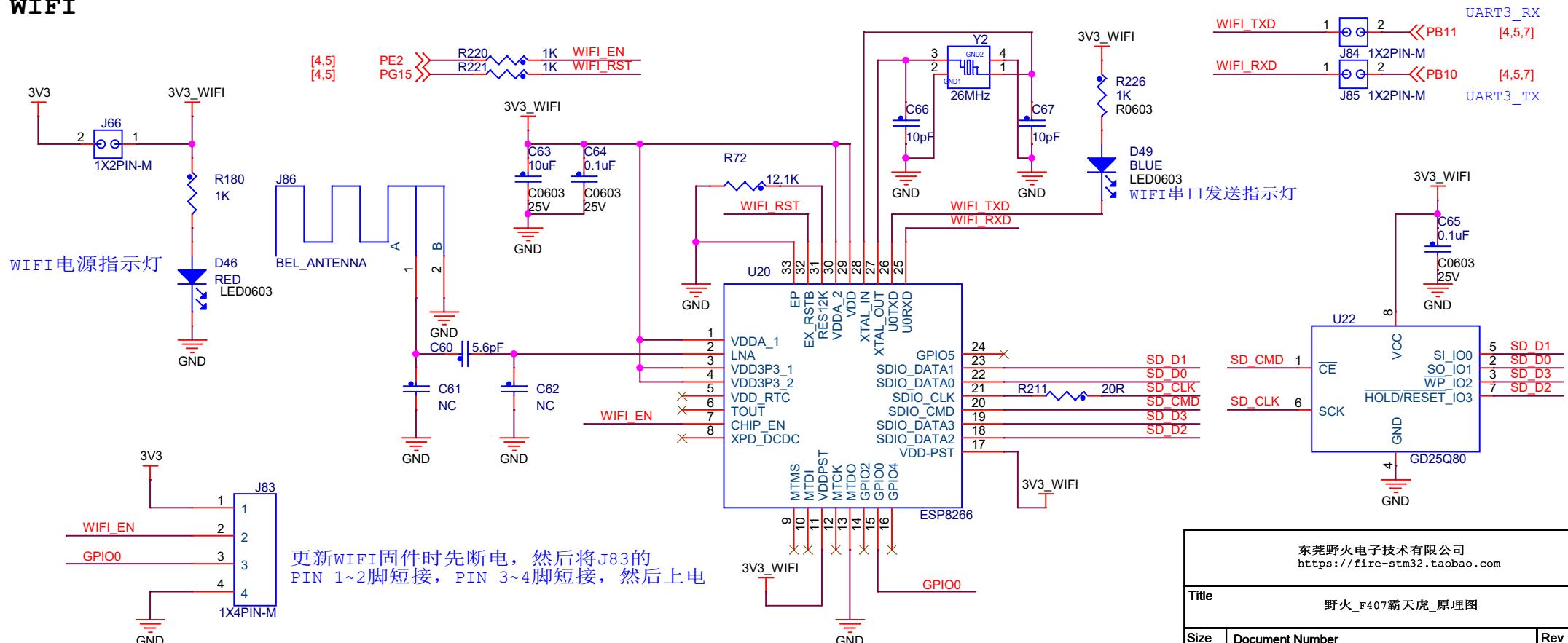
F407 BOOT设置		
BOOT0	BOOT1	启动方式
0	X	用户闪存
1	0	系统存储器/ISP
1	1	内嵌SRAM
默认配置是用户闪存（即内部Flash）		



液晶接口-FSMC-8080模式



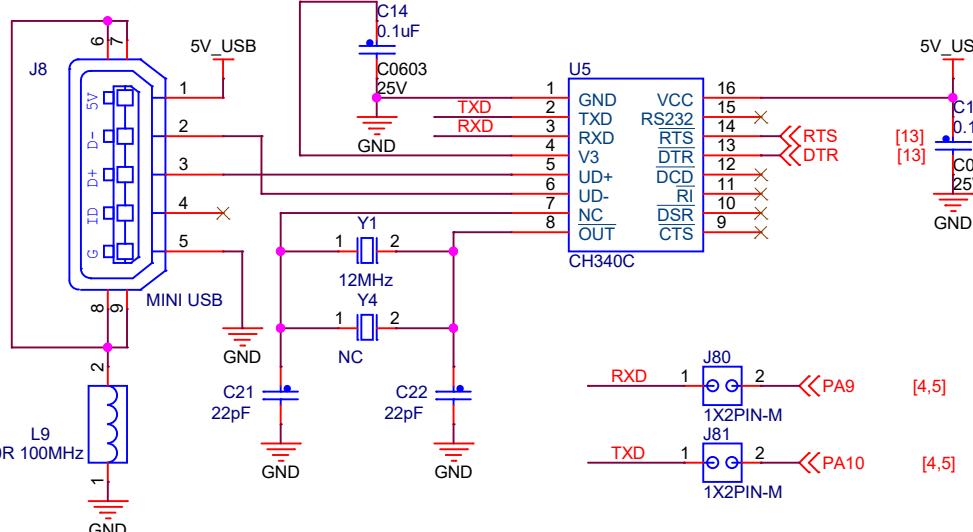
WIFI



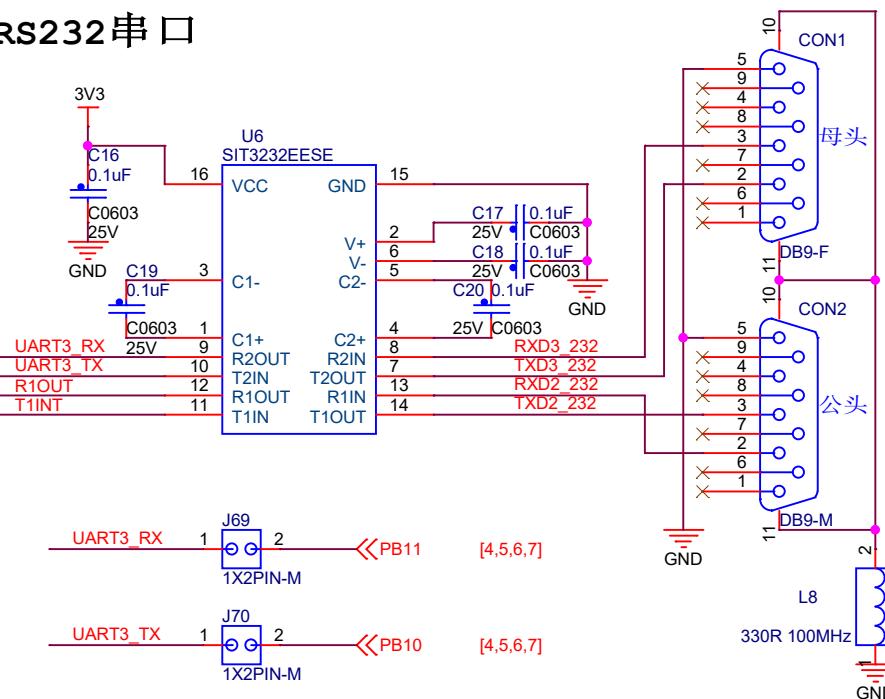
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Title		野火_F407霸天虎_原理图	
Size	Document Number	Rev	
A4	LCD/CSI	V2.0	
Date:	Thursday, June 01, 2023	Sheet	6 of 12

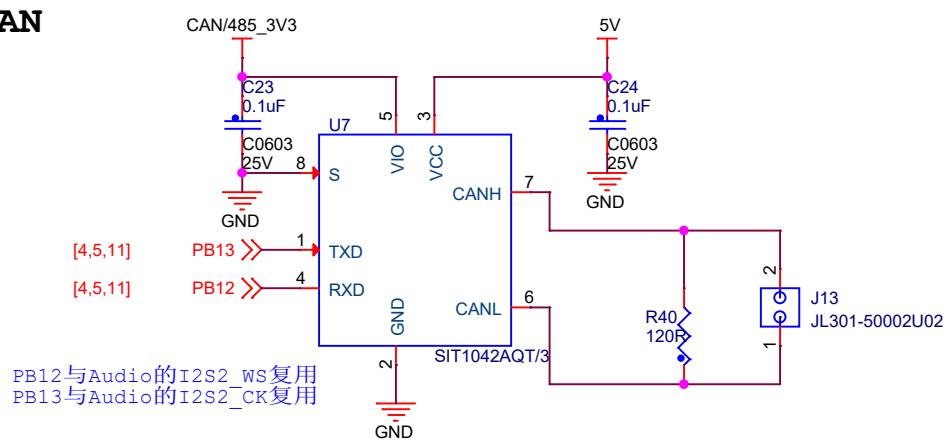
USB转串口



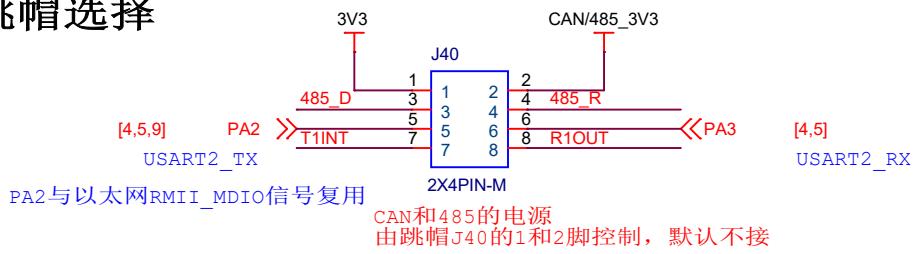
RS232串口



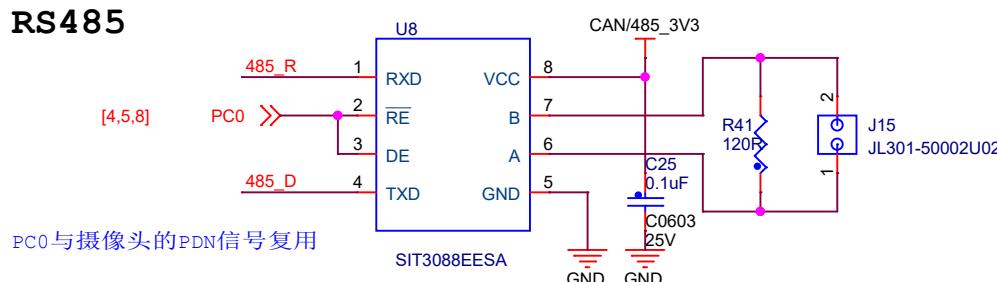
CAN



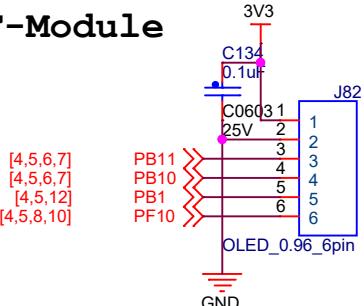
跳帽选择



RS485



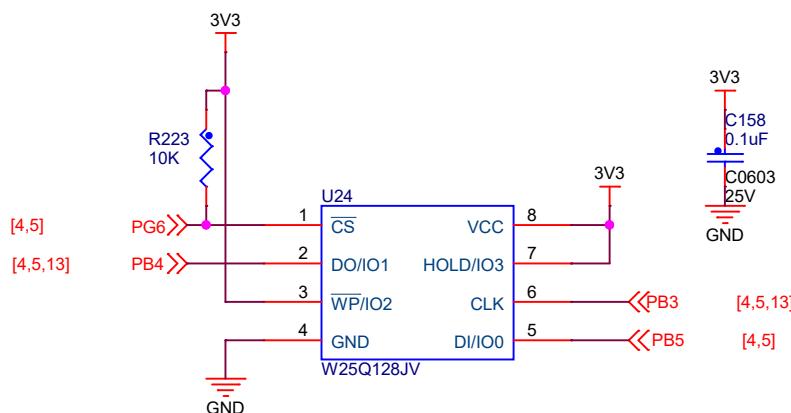
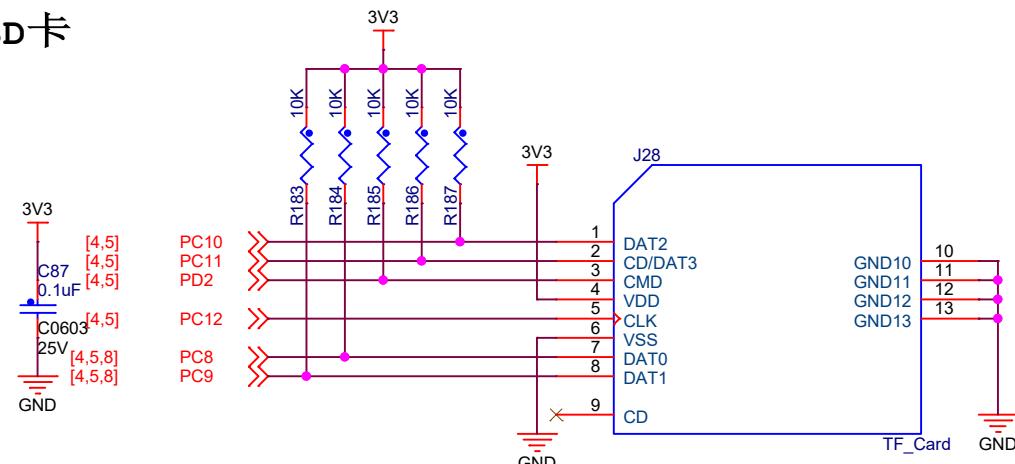
EBF-Module



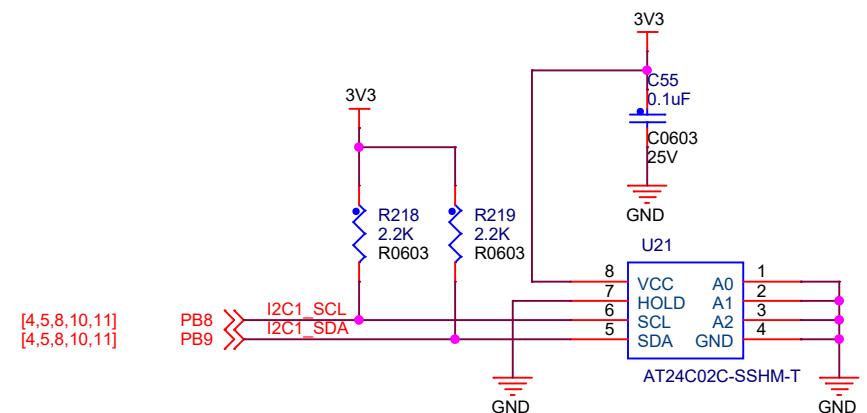
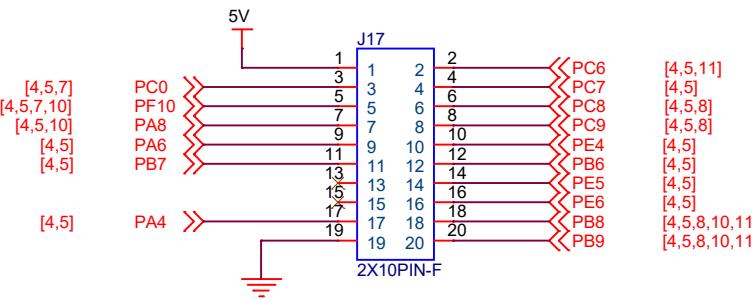
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SPI_FLASH

容量: 16M字节

**SD卡****EEPROM**

容量: 256字节

**摄像头接口**

PC8与SDIO_D0信号复用
PC9与SDIO_D1信号复用
PF10与MPU6050的INT信号复用
PC0与RS485的RE信号复用

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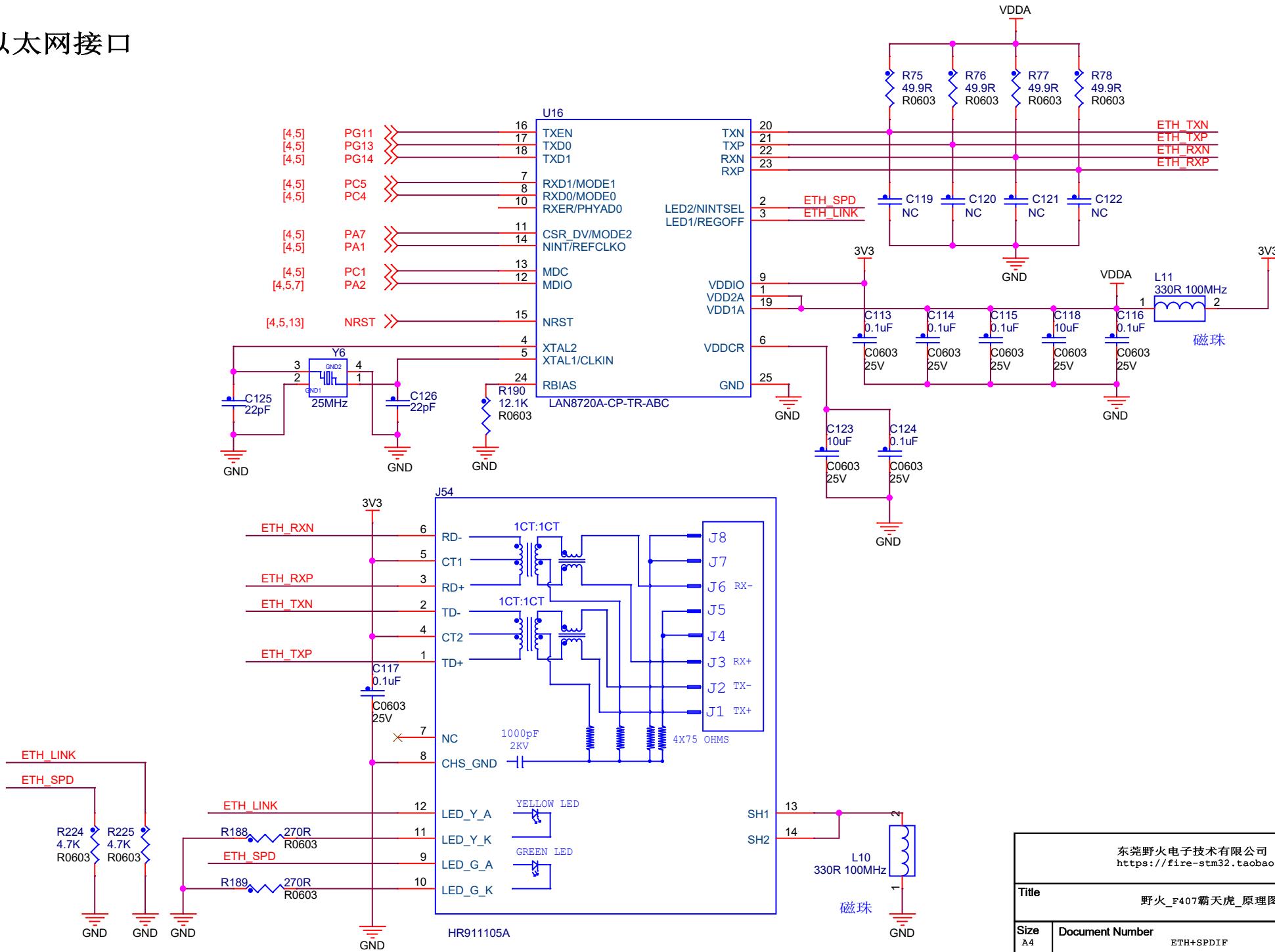
Title 野火_F407霸天虎_原理图

Size A4	Document Number Camera/SD/SPDIF	Rev V2.0
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Date: Thursday, June 01, 2023

Sheet 8 of 12

以太网接口

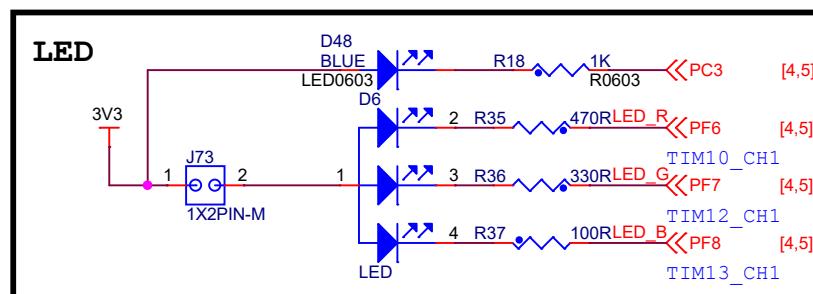
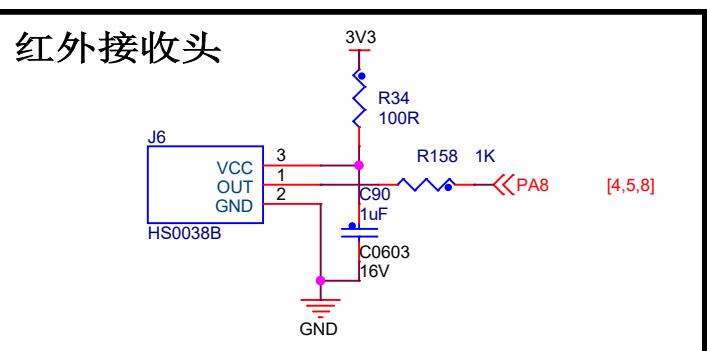
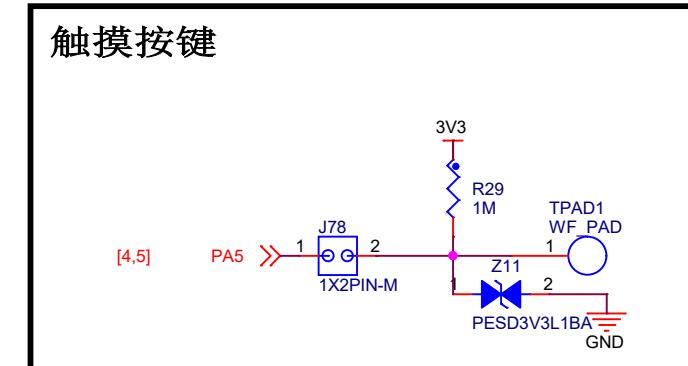
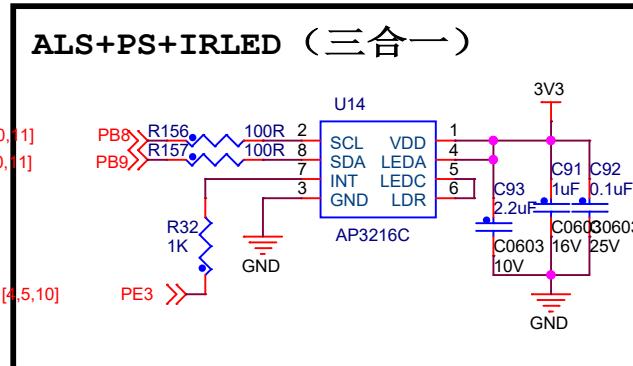
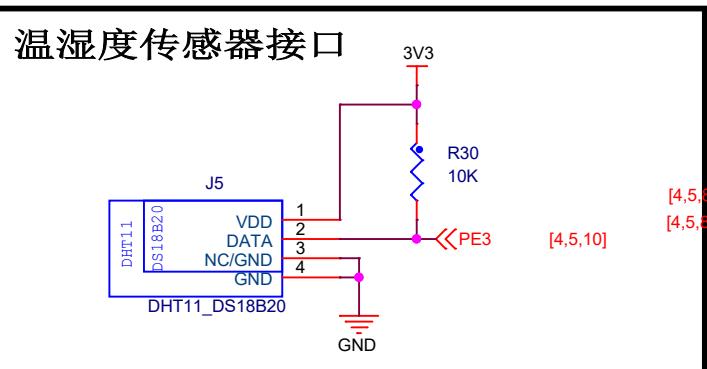
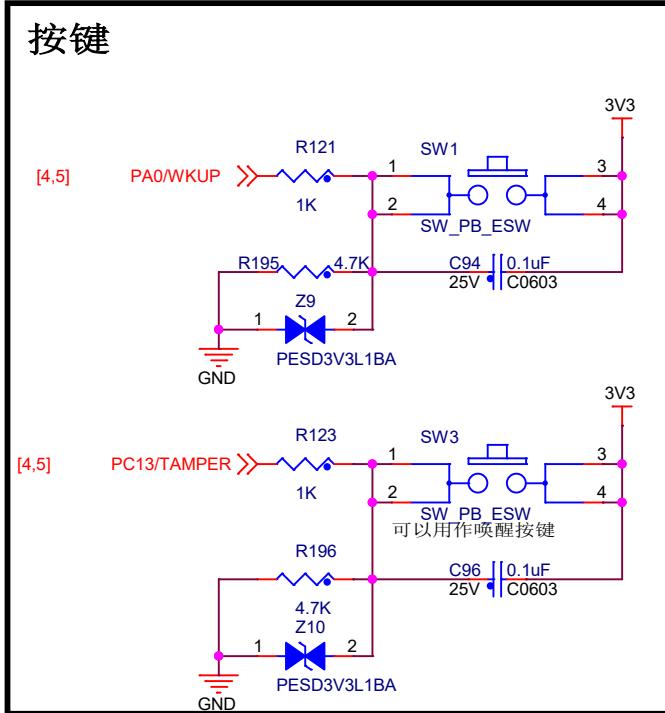
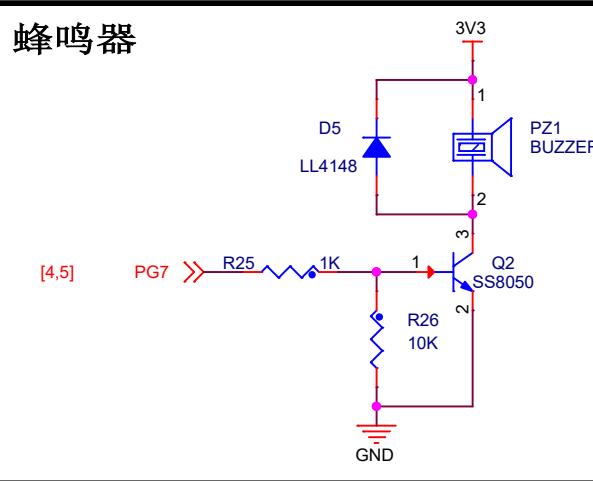
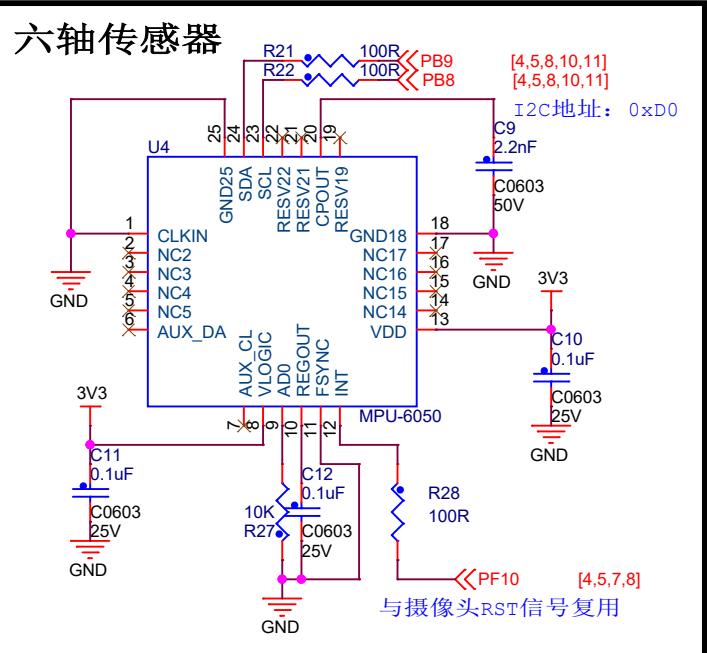


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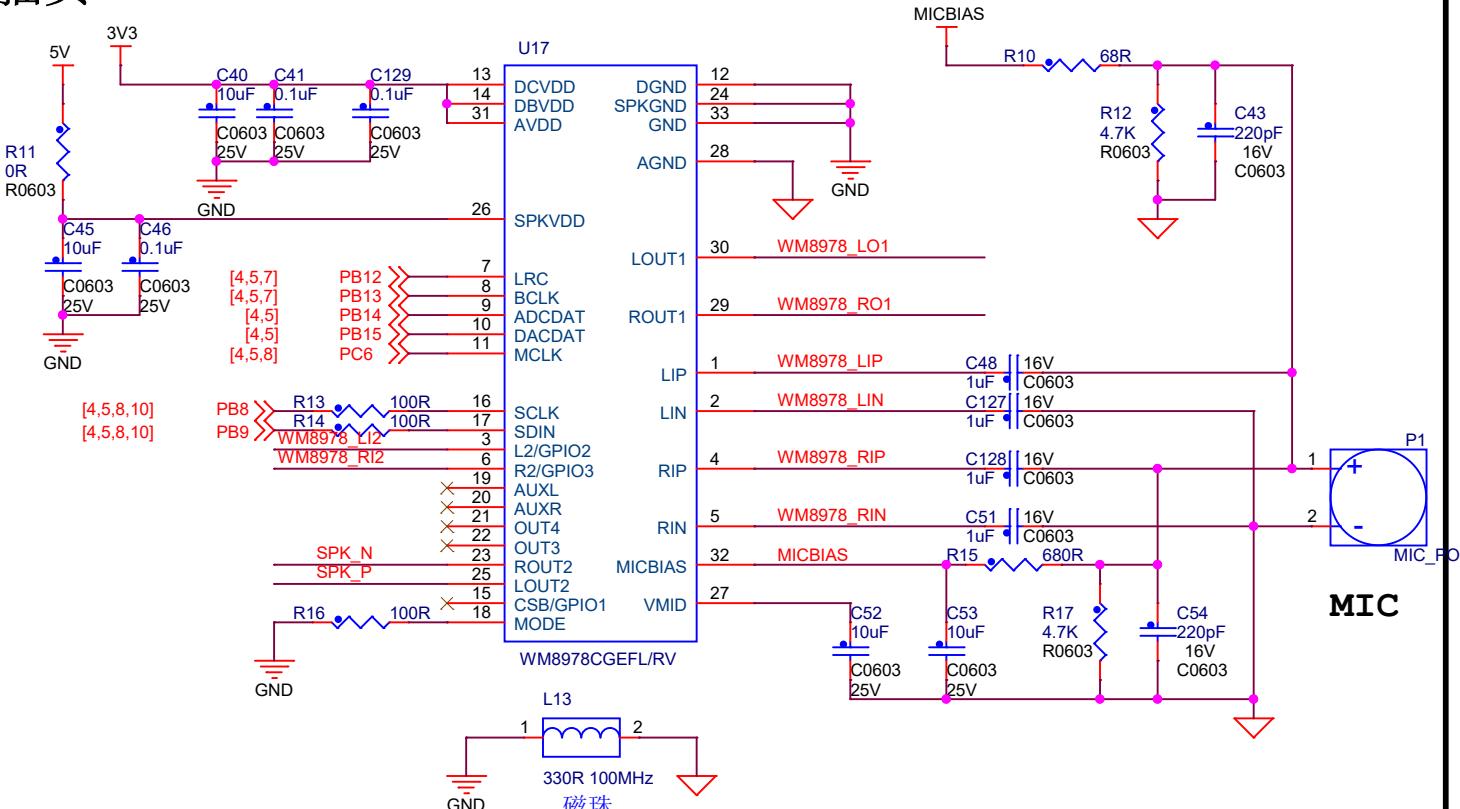
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Document Number	Rev
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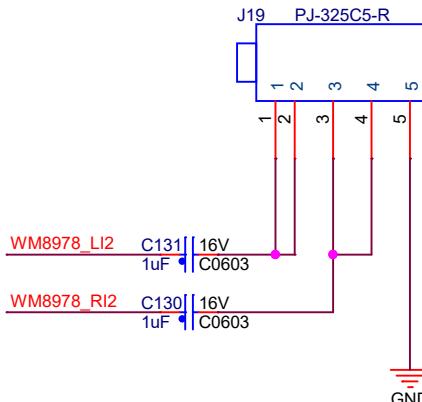
Date: Friday, June 02, 2023 Sheet 9 of 12



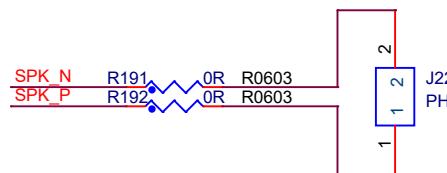
MIC插头



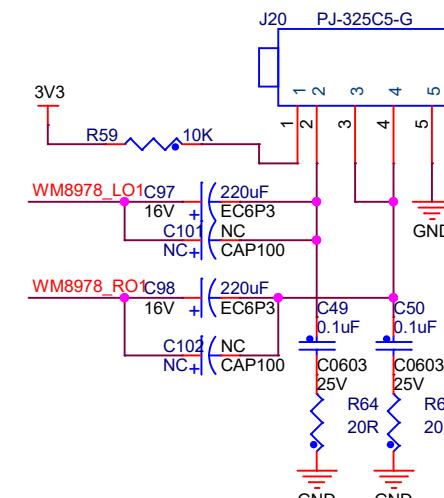
音频输入



喇叭插座



耳机插座



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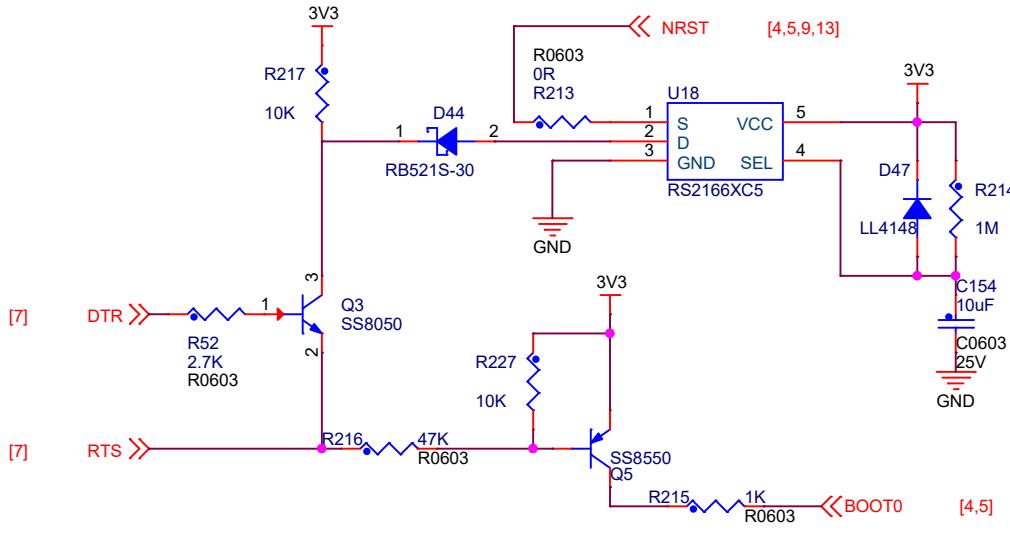
Title 野火_F407霸天虎_原理图

Size A4	Document Number	AUDIO	Rev V2.0
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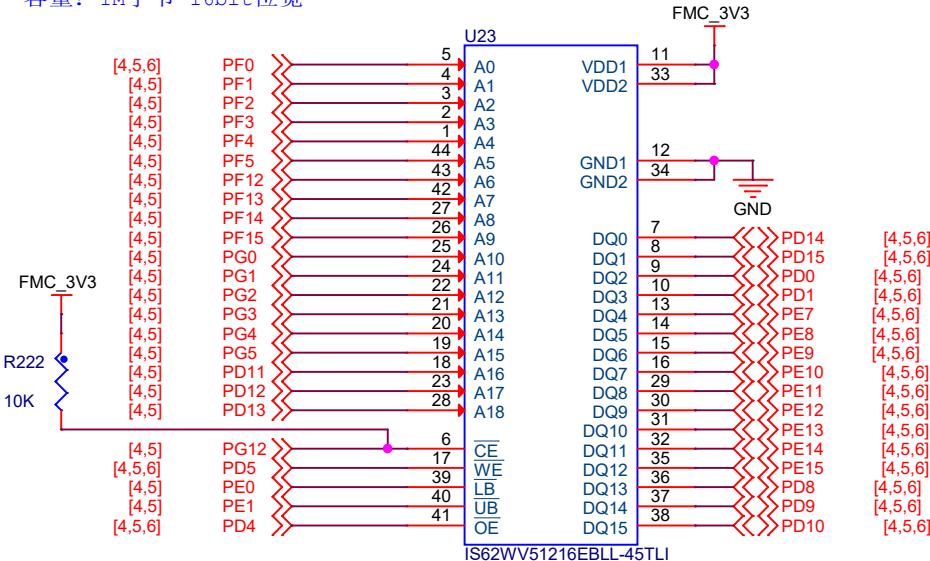
Sheet 11 of 12

ISP一键下载电路

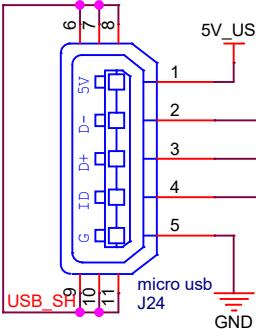


SRAM

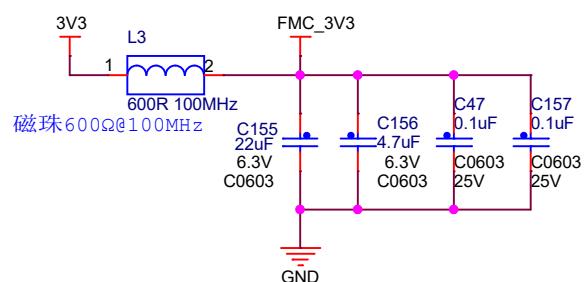
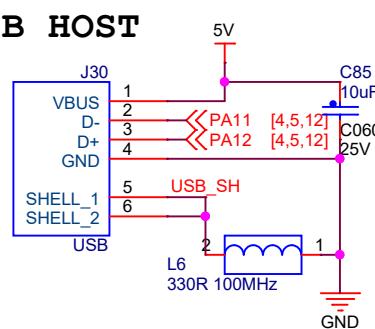
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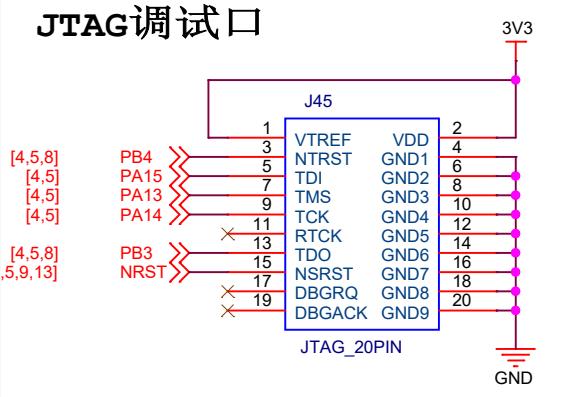
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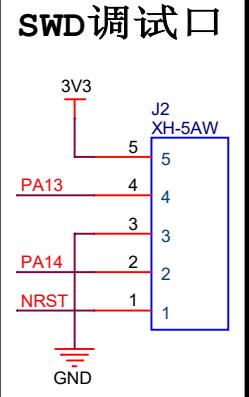
USB HOST



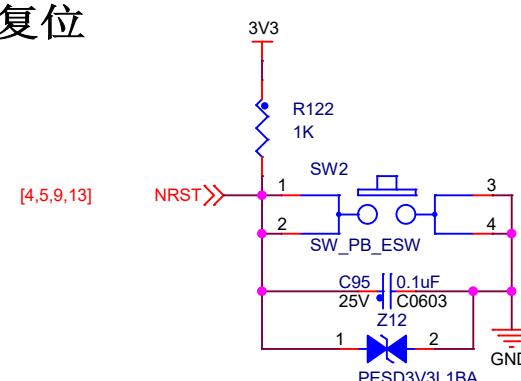
JTAG调试口



SWD调试口



复位



RTC电池

