野火_STM32F103ZET6核心板_原理图_V1.0

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东莞野火电子技术有限公司
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历史版本

版本号	日期	设计	描述
V1.0	2019-05-06	cancore	初始版本

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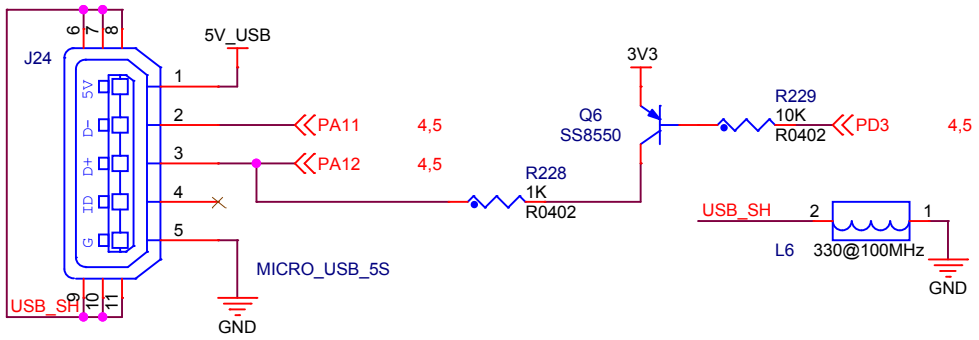
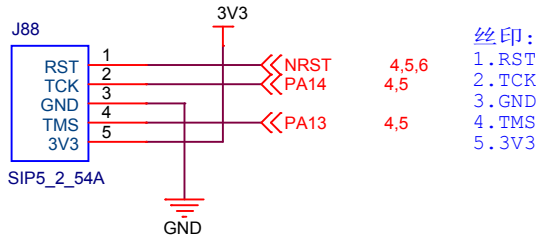
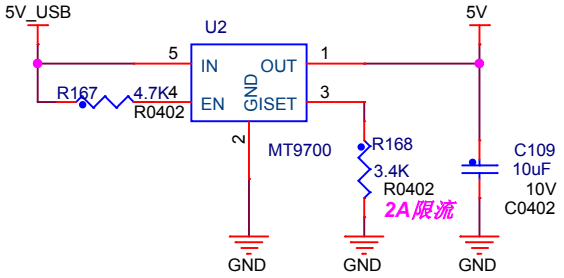
USB Device



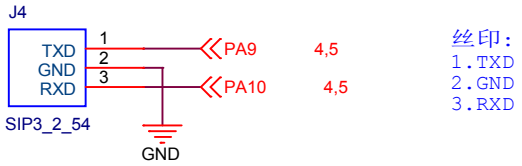
SWD接口



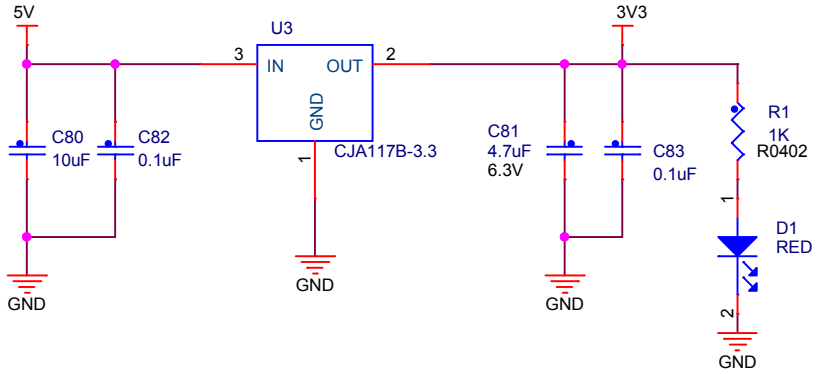
5V输出过流保护



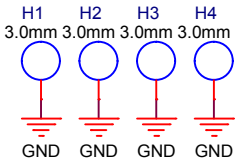
调试串口



LDO 3.3V



定位孔



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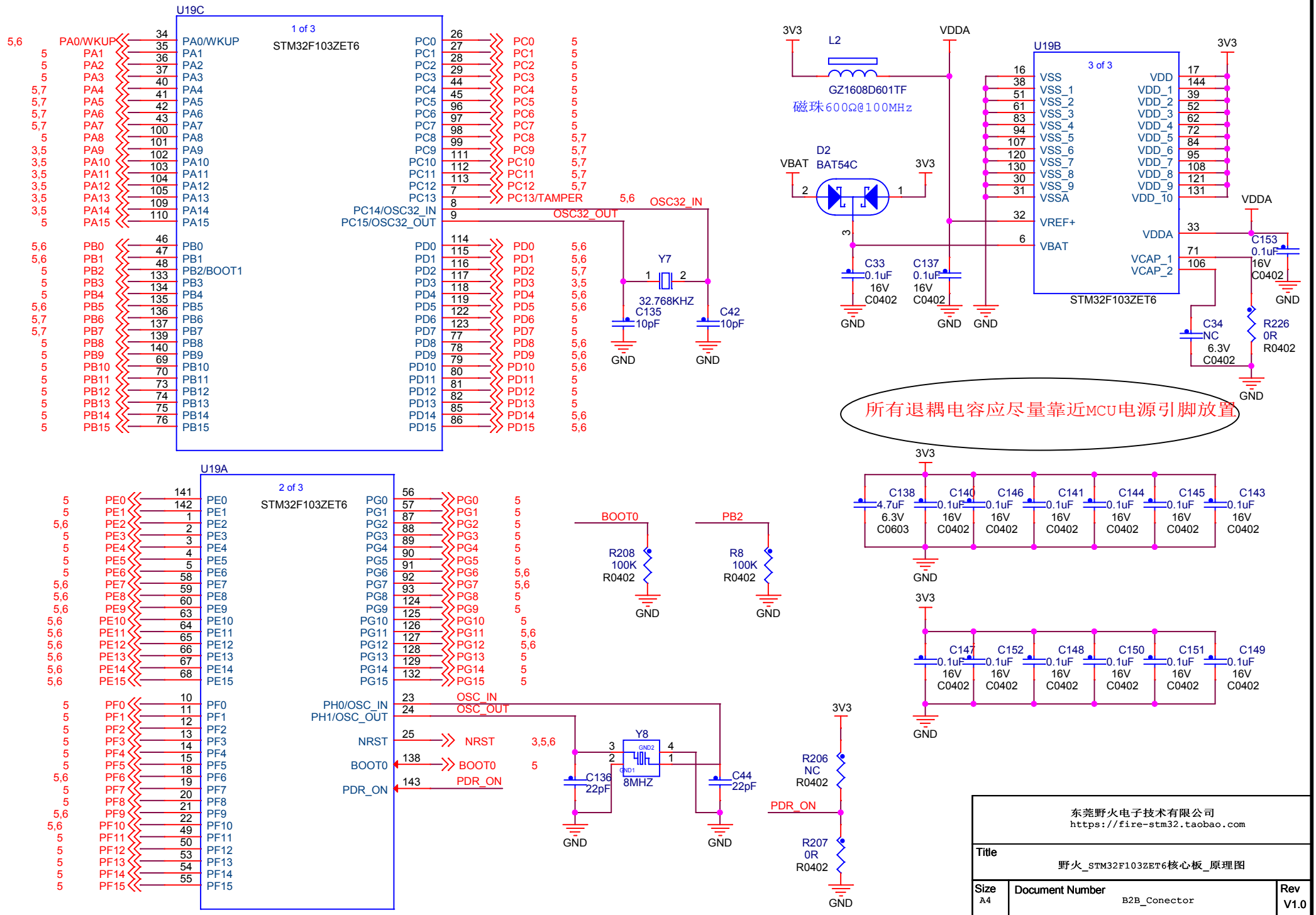
U19C
1 of 3
STM32F103ZET6
PA0/WKUP
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA8
PA9
PA10
PA11
PA12
PA13
PA14
PA15
PB0
PB1
PB2/BOOT1
PB3
PB4
PB5
PB6
PB7
PB8
PB9
PB10
PB11
PB12
PB13
PB14
PB15
PC0
PC1
PC2
PC3
PC4
PC5
PC6
PC7
PC8
PC9
PC10
PC11
PC12
PC13/TAMPER
PC14/OSC32_IN
PC15/OSC32_OUT
PD0
PD1
PD2
PD3
PD4
PD5
PD6
PD7
PD8
PD9
PD10
PD11
PD12
PD13
PD14
PD15
OSC32_IN
OSC32_OUT
Y7
32.768KHZ
C135
10pF
C42
10pF
GND
U19A
2 of 3
STM32F103ZET6
PE0
PE1
PE2
PE3
PE4
PE5
PE6
PE7
PE8
PE9
PE10
PE11
PE12
PE13
PE14
PE15
PF0
PF1
PF2
PF3
PF4
PF5
PF6
PF7
PF8
PF9
PF10
PF11
PF12
PF13
PF14
PF15
PG0
PG1
PG2
PG3
PG4
PG5
PG6
PG7
PG8
PG9
PG10
PG11
PG12
PG13
PG14
PG15
PH0/OSC_IN
PH1/OSC_OUT
OSC_IN
OSC_OUT
NRST
BOOT0
PDR_ON
Y8
8MHZ
C136
22pF
C44
22pF
R208
100K
R0402
R8
100K
R0402
R206
NC
R0402
R207
0R
R0402
3V3
L2
GZ1608D601TF
磁珠600Ω@100MHz
VDDA
D2
BAT54C
VBAT
U19B
3 of 3
STM32F103ZET6
VSS
VSS_1
VSS_2
VSS_3
VSS_4
VSS_5
VSS_6
VSS_7
VSS_8
VSS_9
VSSA
VDD
VDD_1
VDD_2
VDD_3
VDD_4
VDD_5
VDD_6
VDD_7
VDD_8
VDD_9
VDD_10
VREF+
VBAT
VCAP_1
VCAP_2
C33
0.1uF
16V
C0402
C137
0.1uF
16V
C0402
C153
0.1uF
16V
C0402
C34
NC
6.3V
C0402
R226
0R
R0402
所有退耦电容应尽量靠近MCU电源引脚放置
C138
4.7uF
6.3V
C0603
C140
C146
C141
C144
C145
C143
C147
C152
C148
C150
C151
C149
0.1uF
16V
C0402
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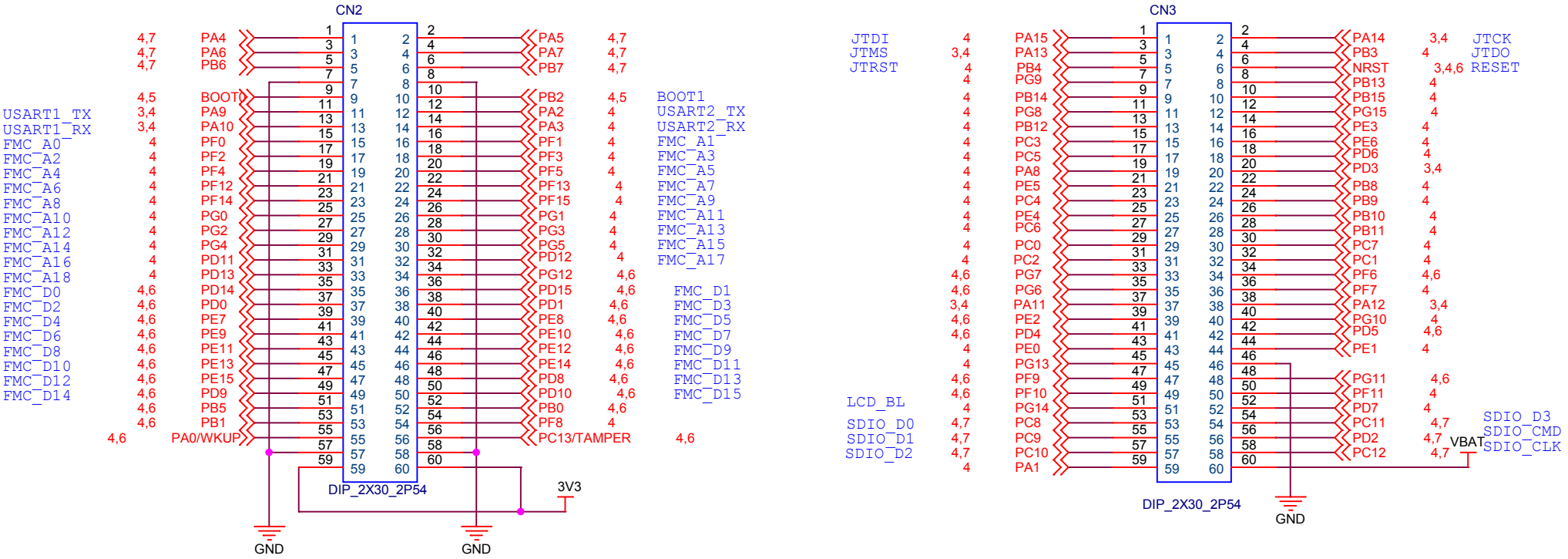
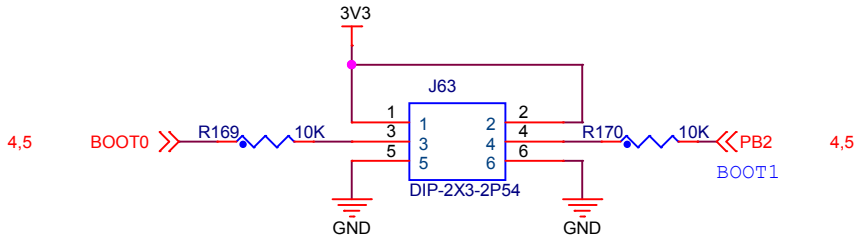
引出IO口

引出IO 111个，包含 5个JTAG IO

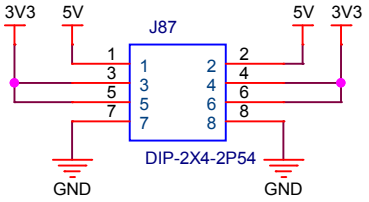


设置启动模式



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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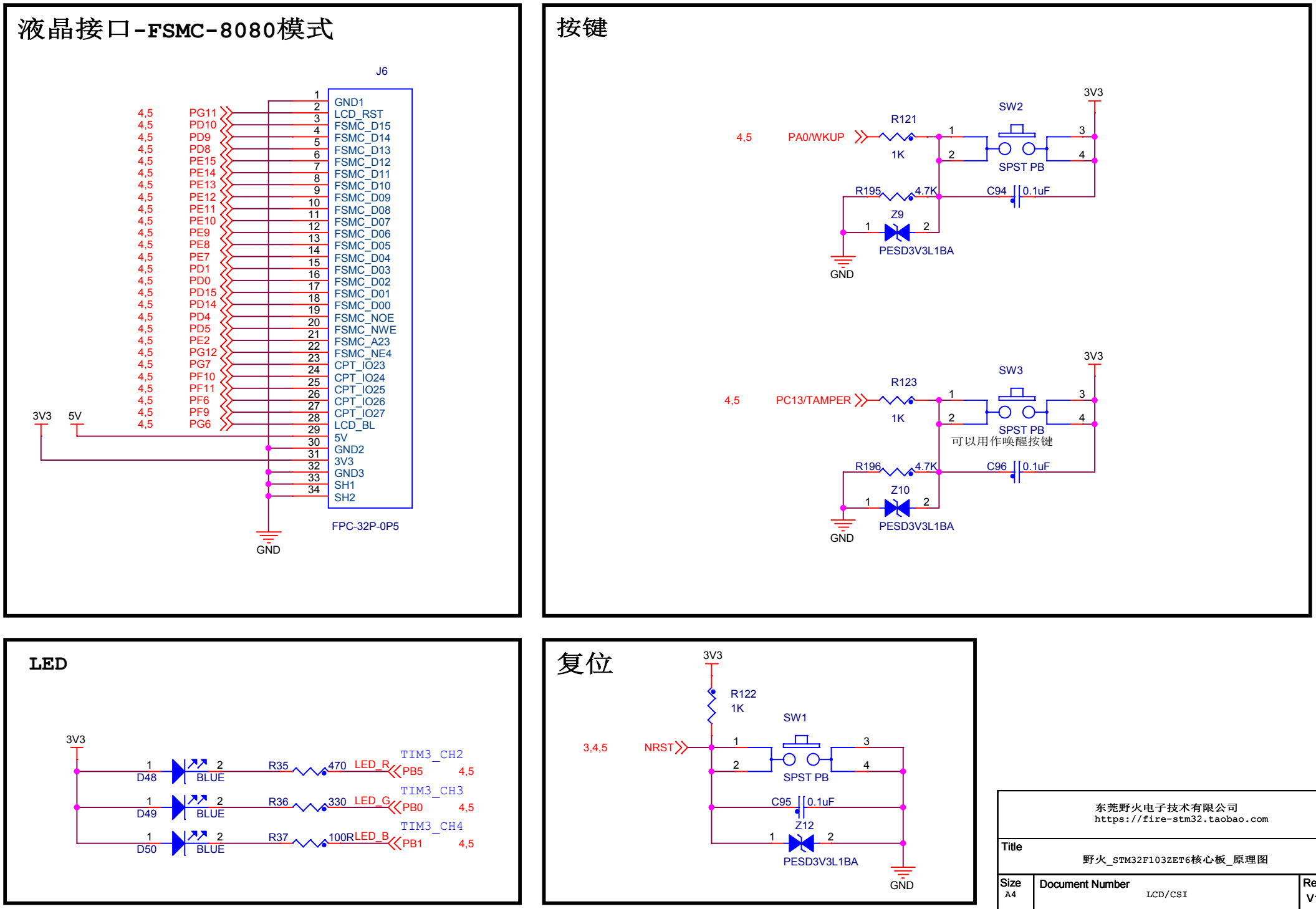
液晶接口-FSMC-8080模式
J6
1 GND1
2 LCD_RST
3 FSMC_D15
4 FSMC_D14
5 FSMC_D13
6 FSMC_D12
7 FSMC_D11
8 FSMC_D10
9 FSMC_D09
10 FSMC_D08
11 FSMC_D07
12 FSMC_D06
13 FSMC_D05
14 FSMC_D04
15 FSMC_D03
16 FSMC_D02
17 FSMC_D01
18 FSMC_D00
19 FSMC_NOE
20 FSMC_NWE
21 FSMC_A23
22 FSMC_NE4
23 CPT_IO23
24 CPT_IO24
25 CPT_IO25
26 CPT_IO26
27 CPT_IO27
28 LCD_BL
29 5V
30 GND2
31 3V3
32 GND3
33 SH1
34 SH2
4,5 PG11
4,5 PD10
4,5 PD9
4,5 PD8
4,5 PE15
4,5 PE14
4,5 PE13
4,5 PE12
4,5 PE11
4,5 PE10
4,5 PE9
4,5 PE8
4,5 PE7
4,5 PD1
4,5 PD0
4,5 PD15
4,5 PD14
4,5 PD4
4,5 PD5
4,5 PE2
4,5 PG12
4,5 PG7
4,5 PF10
4,5 PF11
4,5 PF6
4,5 PF9
4,5 PG6
3V3
5V
GND
FPC-32P-0P5
按键
3V3
SW2
R121
4,5 PA0/WKUP
1K
SPST PB
R195 4.7K
C94 0.1uF
Z9
PESD3V3L1BA
GND
3V3
SW3
R123
4,5 PC13/TAMPER
1K
SPST PB
可以用作唤醒按键
R196 4.7K
C96 0.1uF
Z10
PESD3V3L1BA
GND
LED
3V3
D48 BLUE R35 470 LED_R TIM3_CH2 PB5 4,5
D49 BLUE R36 330 LED_G TIM3_CH3 PB0 4,5
D50 BLUE R37 100R LED_B TIM3_CH4 PB1 4,5
复位
3V3
R122
1K
SW1
3,4,5 NRST
SPST PB
C95 0.1uF
Z12
PESD3V3L1BA
GND
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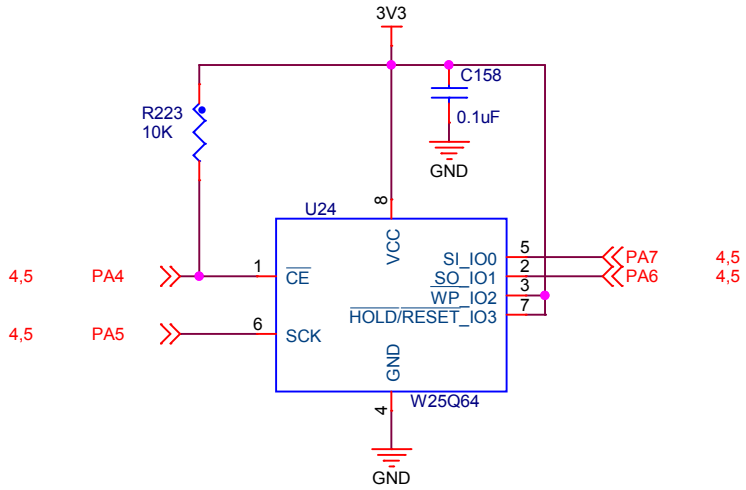
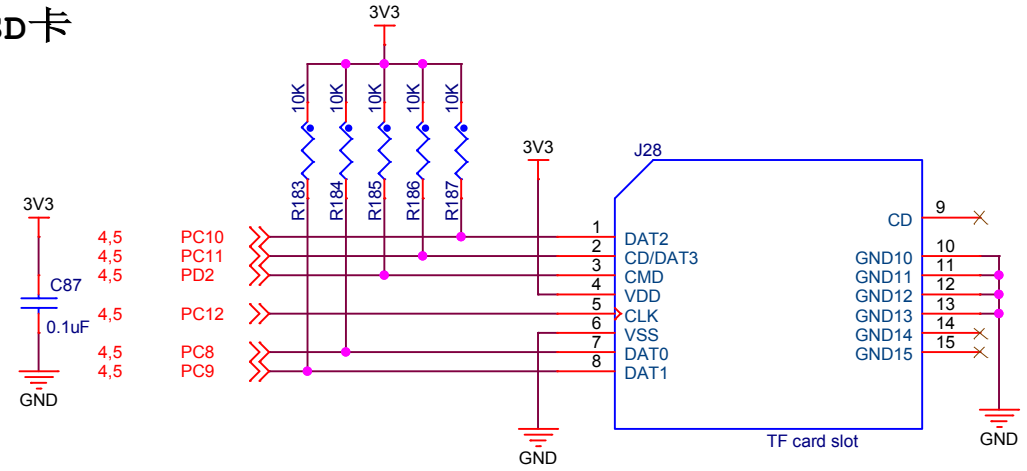
SPI_FLASH

容量：8M字节

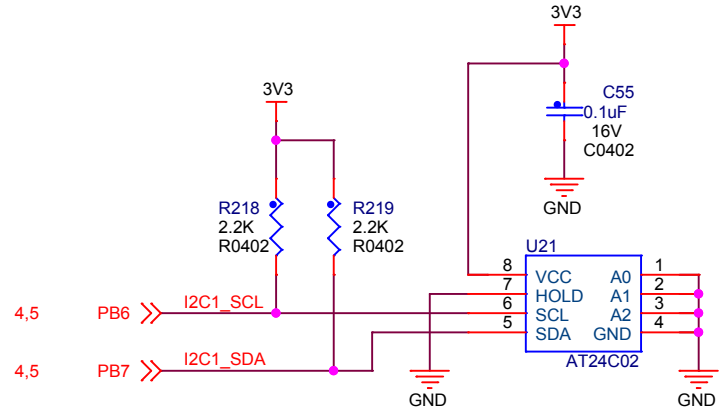


SD卡



EEPROM

容量：256字节



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