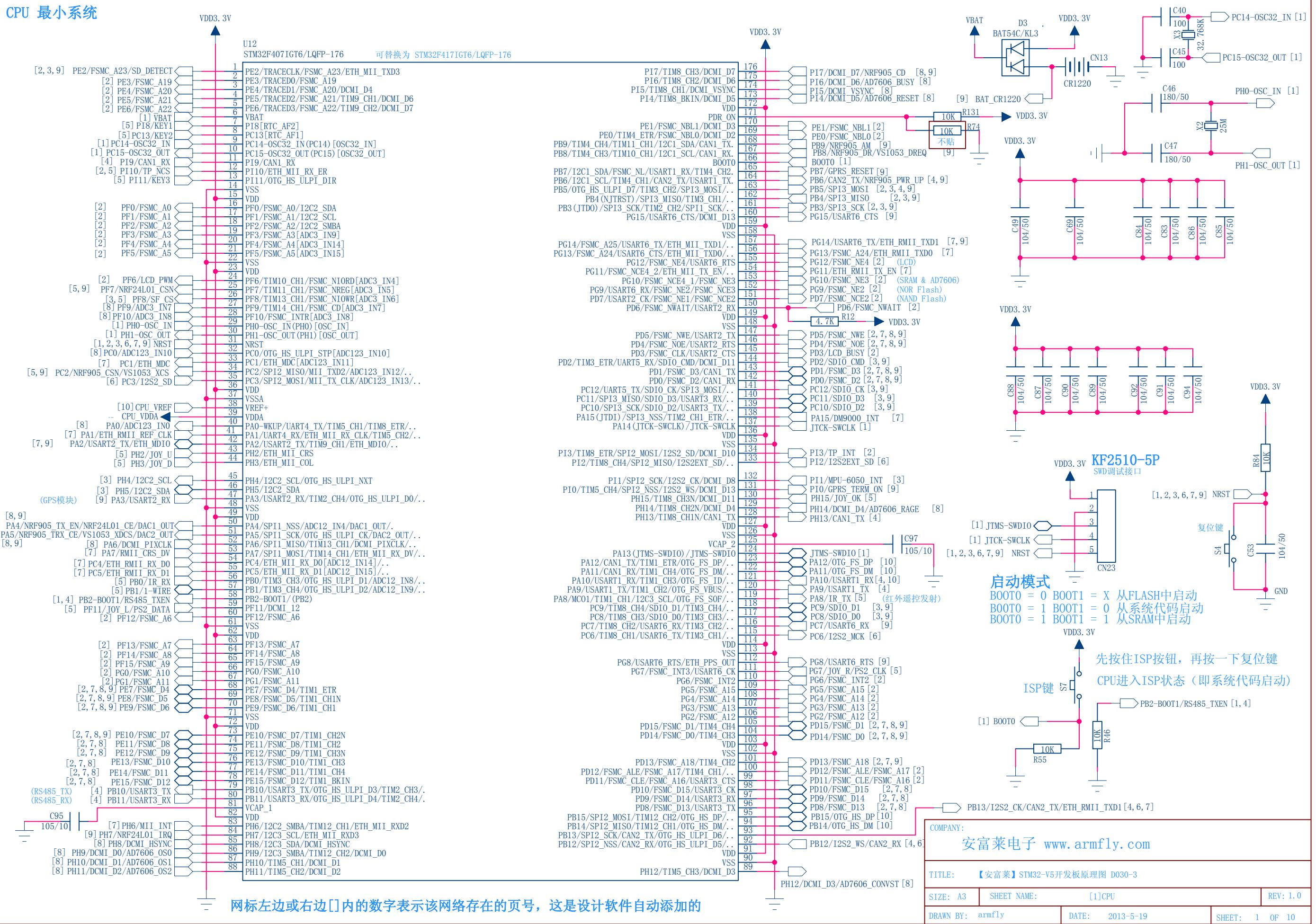
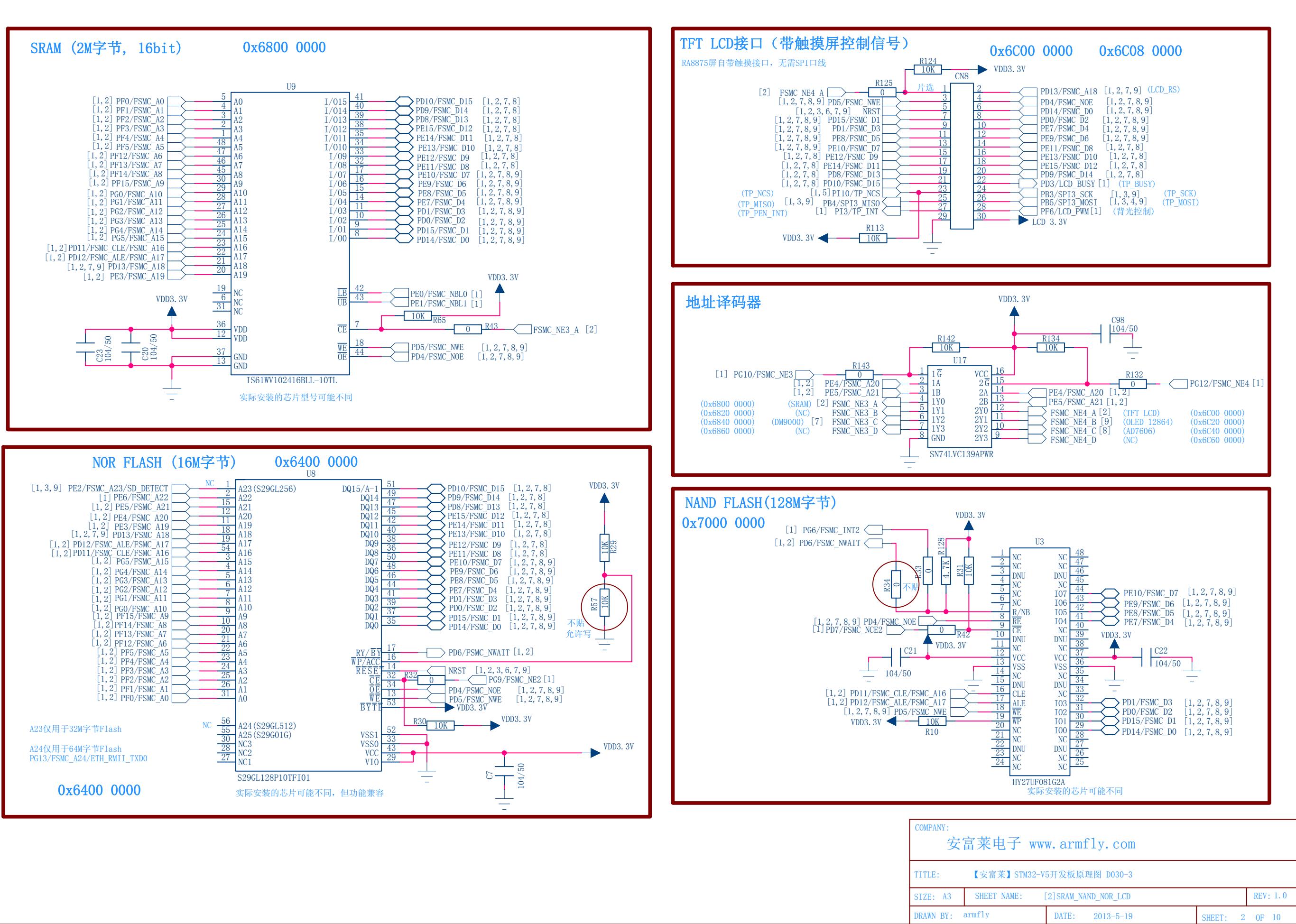
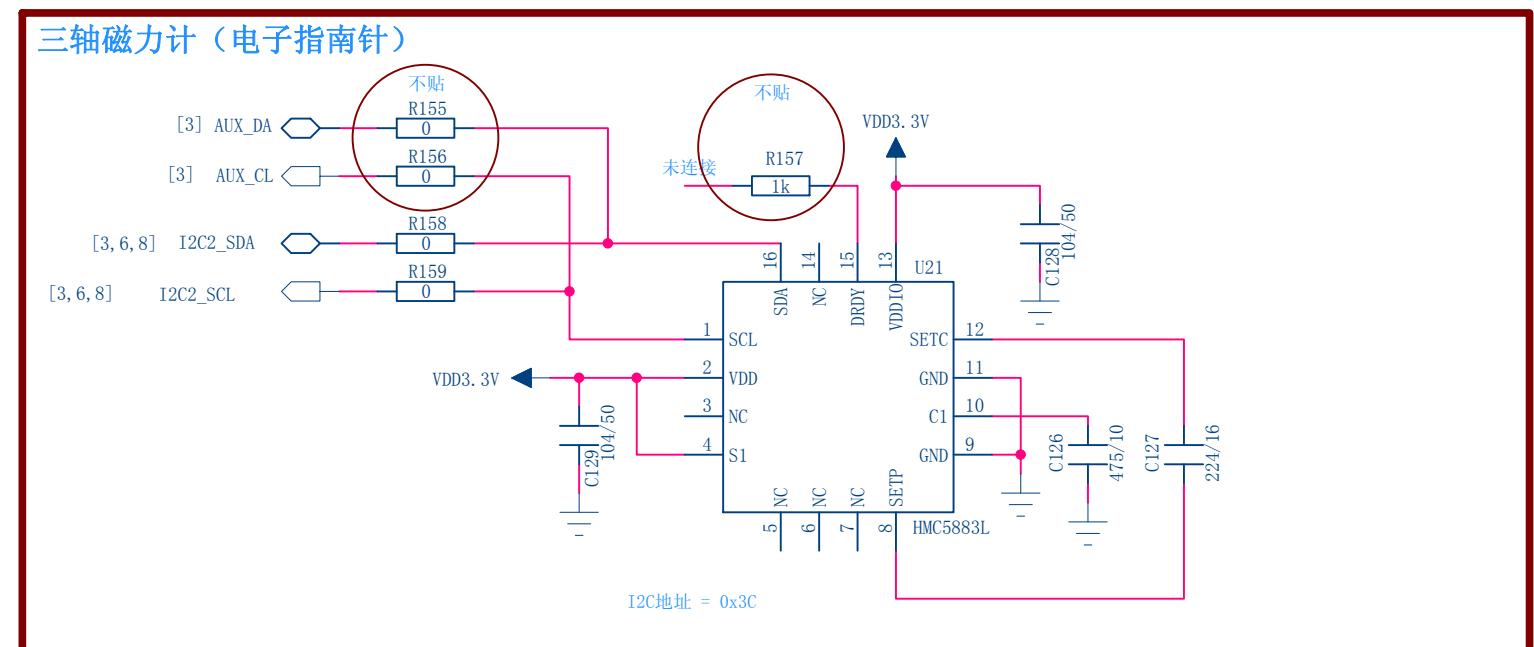
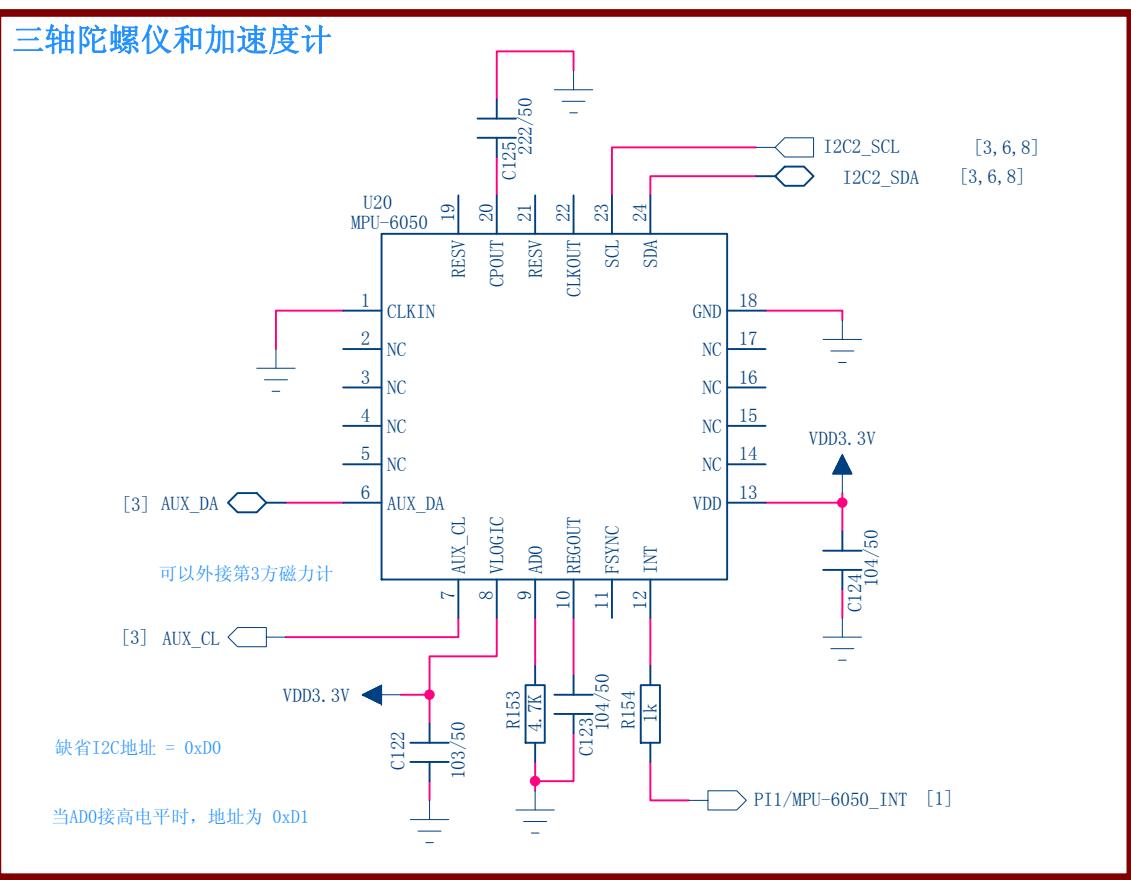
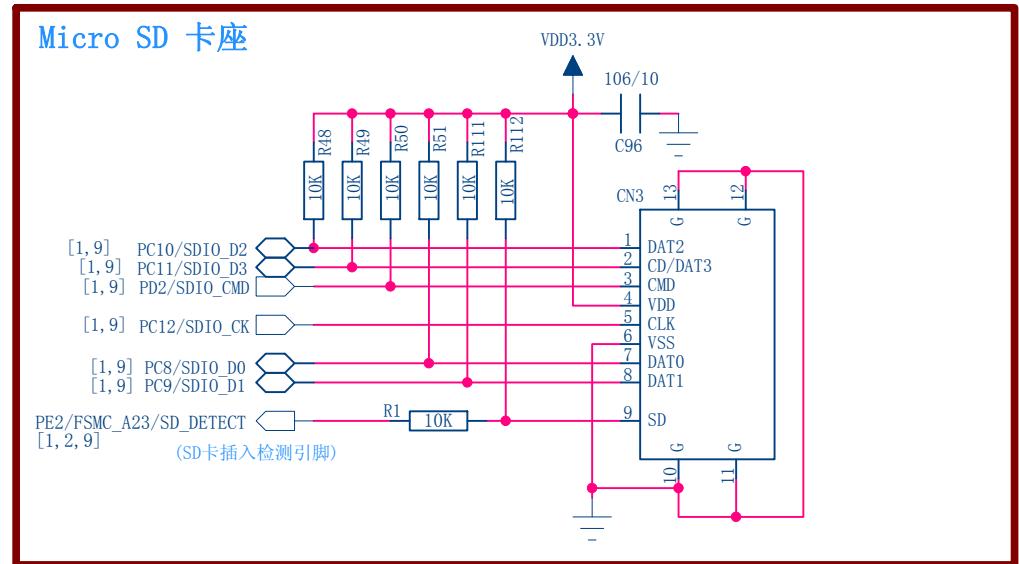
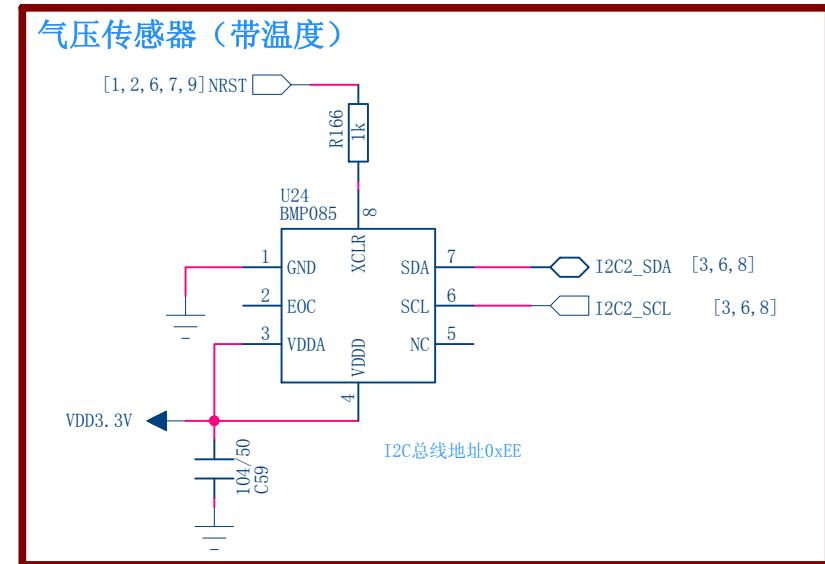
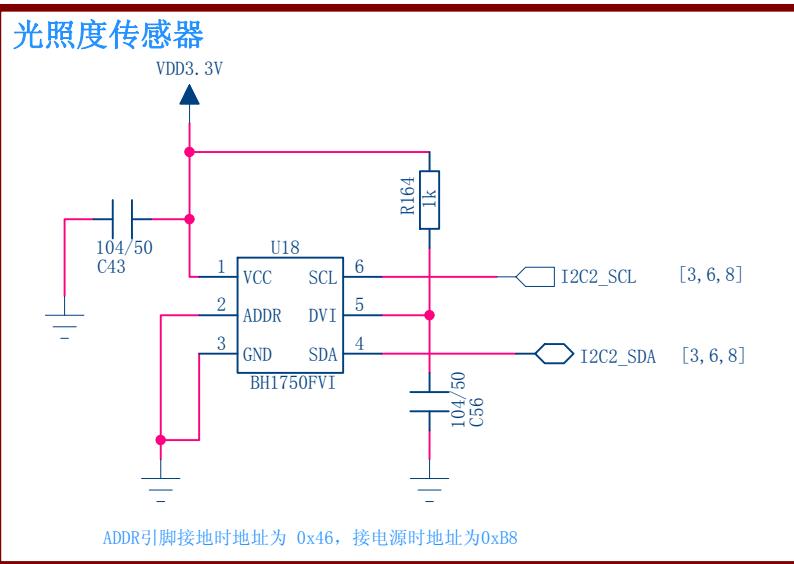
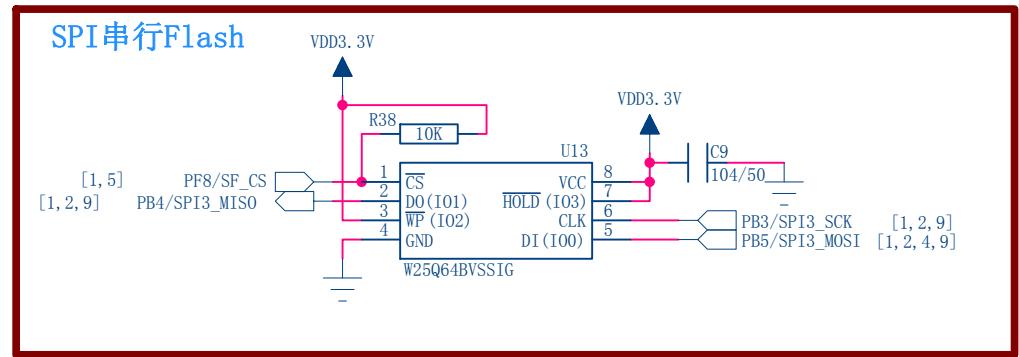
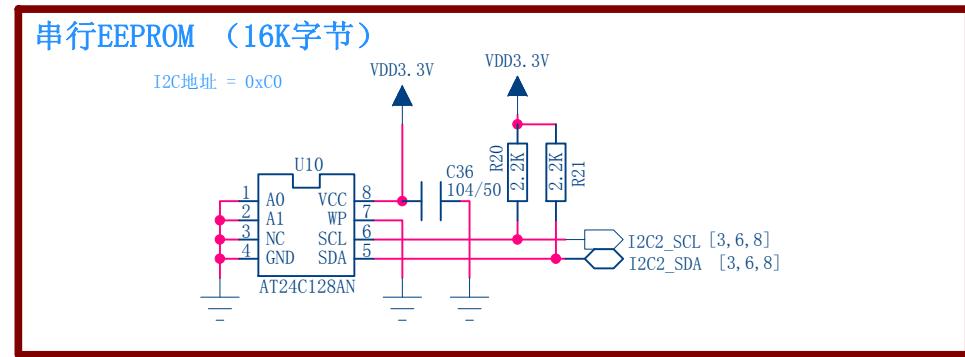
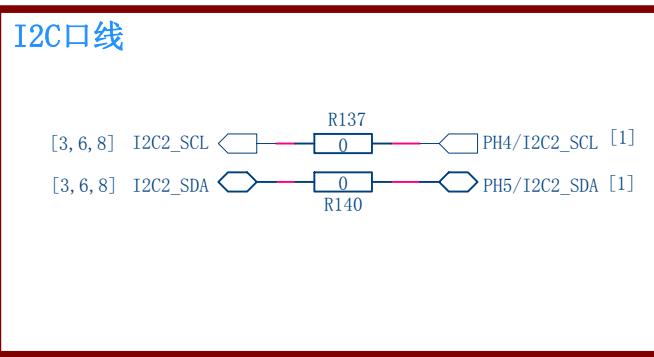


## CPU 最小系统





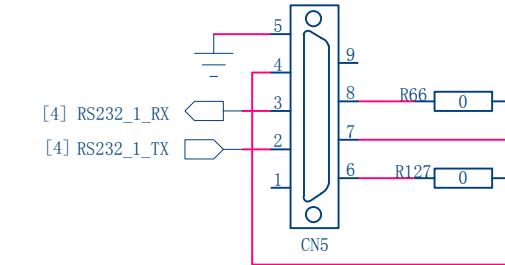
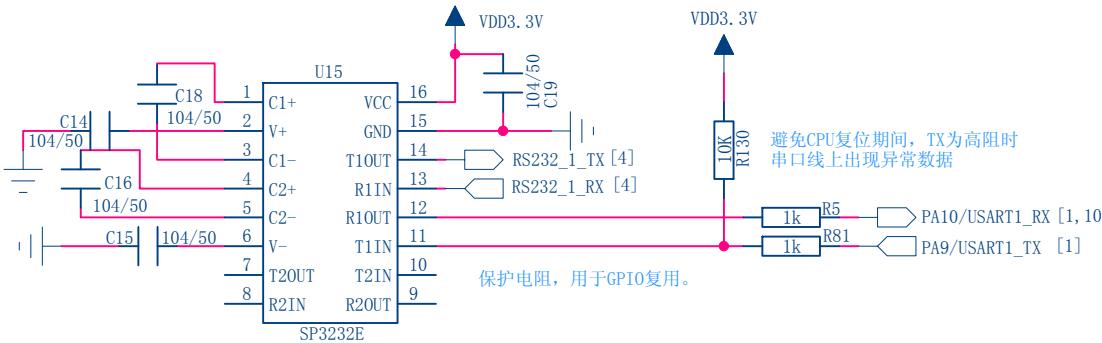


COMPANY:  
安富莱电子 www.armfly.com

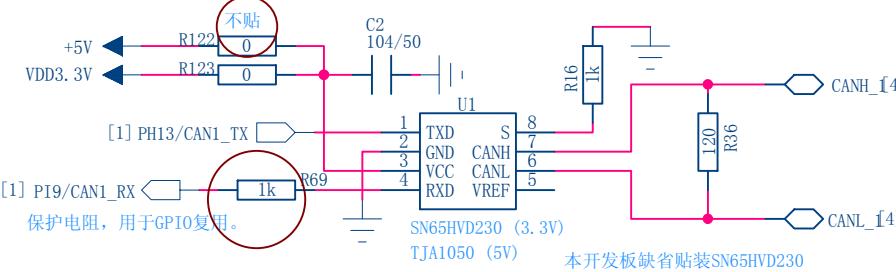
TITLE: 【安富莱】STM32-V5开发板原理图 D030-3

SIZE: A3	SHEET NAME: [3]I2C_SFLASH_SD	REV: 1
DRAWN BY: armfly	DATE: 2013-5-19	SHEET: 3 OF 1

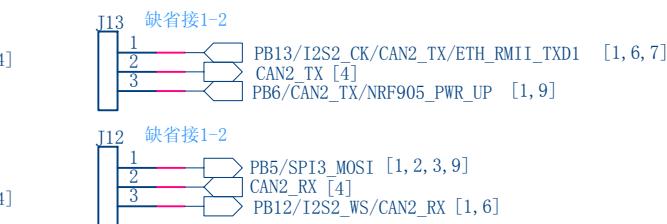
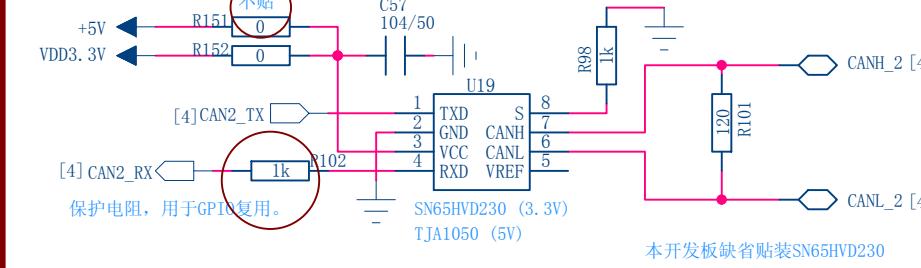
### 两路RS232串口 (USART1)



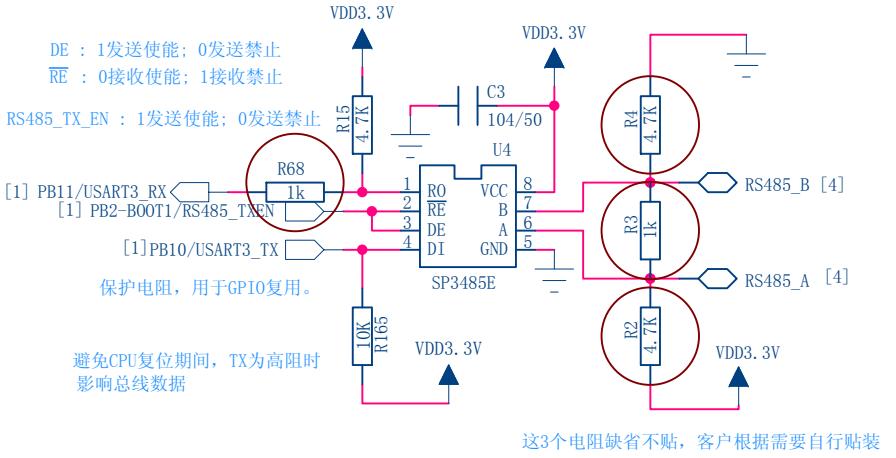
### CAN接口1



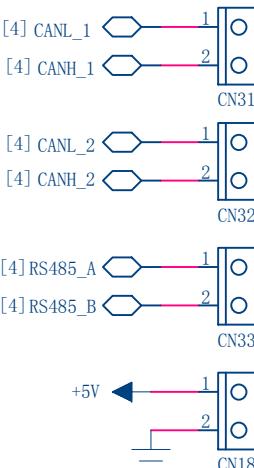
### CAN接口2



### RS485 (USART3)



### KF128 接线端子



COMPANY:

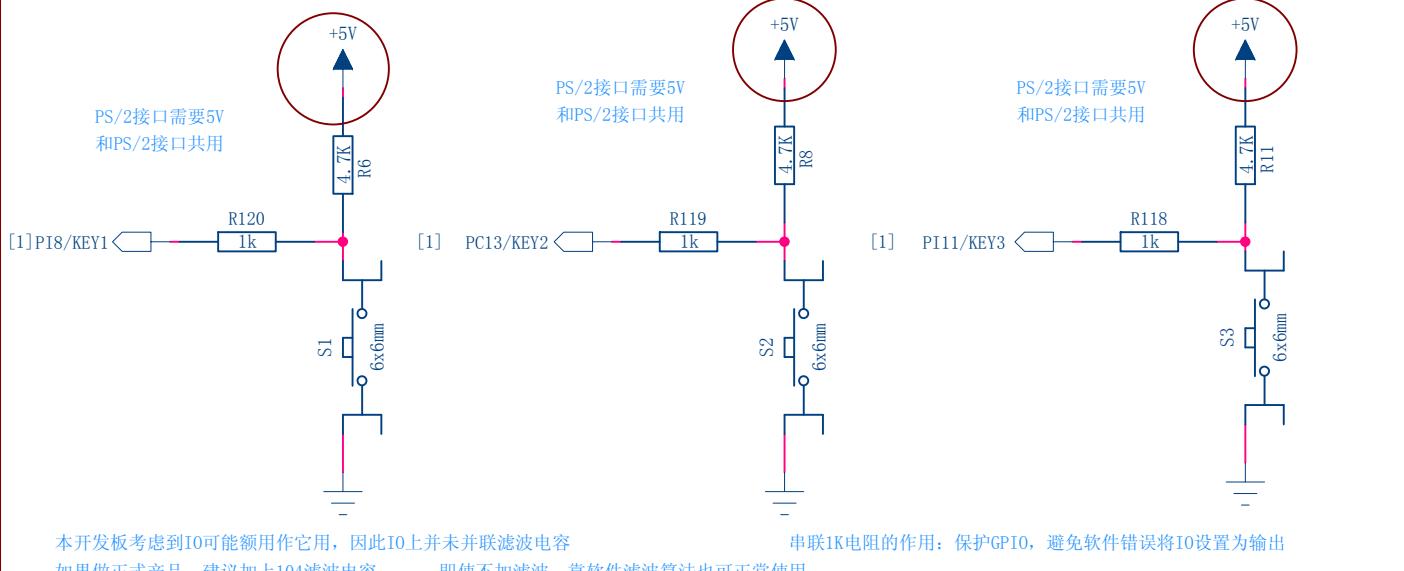
安富莱电子 [www.armfly.com](http://www.armfly.com)

TITLE: 【安富莱】STM32-V5开发板原理图 D030-3

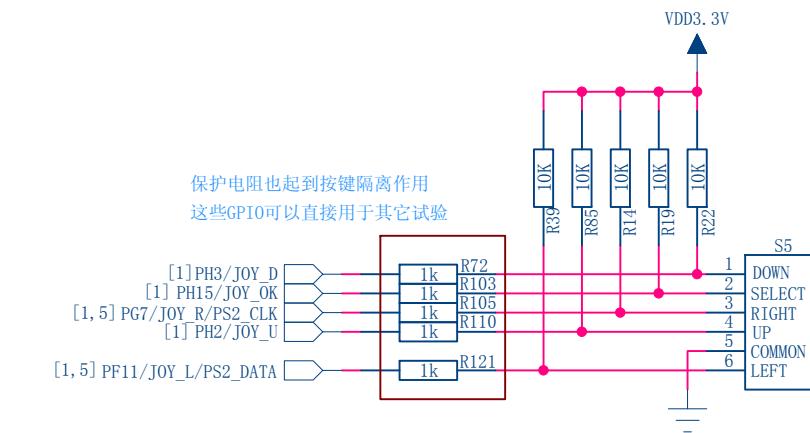
SIZE: A3	SHEET NAME: [4]RS232_RS485_CAN	REV: 1.0
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DRAWN BY: armfly	DATE: 2013-5-19	SHEET: 4 OF 10
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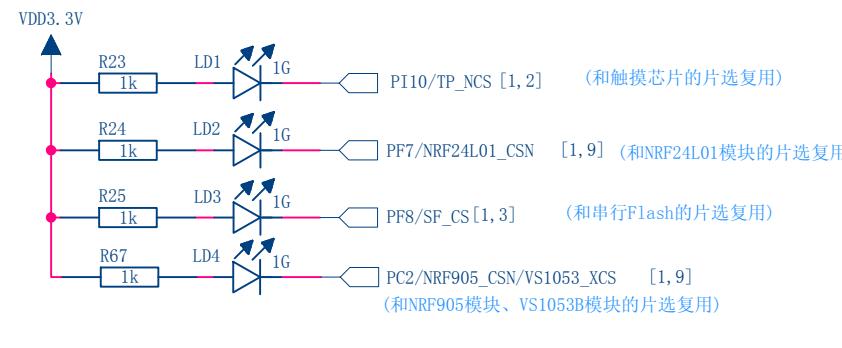
### 用户自定义按钮



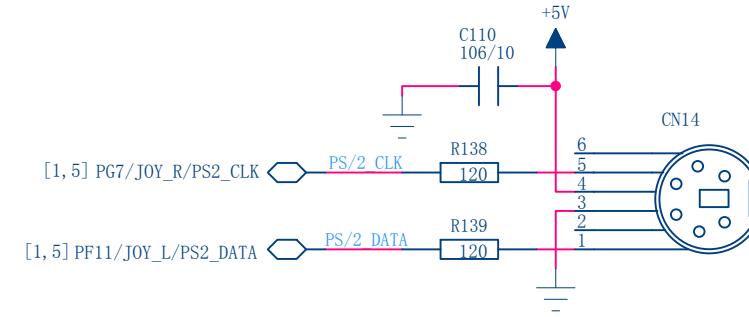
### 5向摇杆



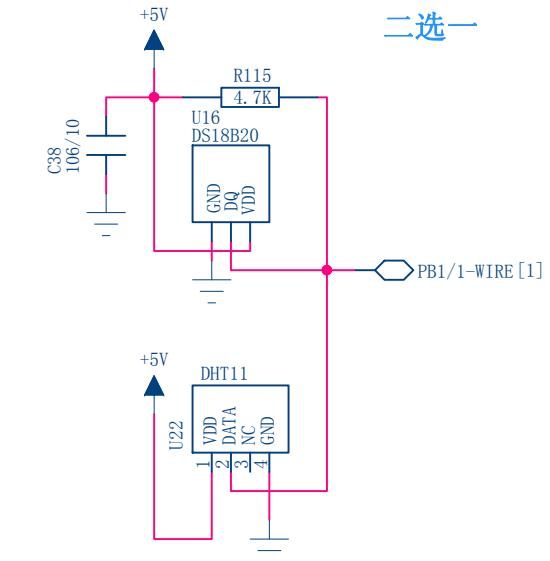
### 用户自定义LED指示灯



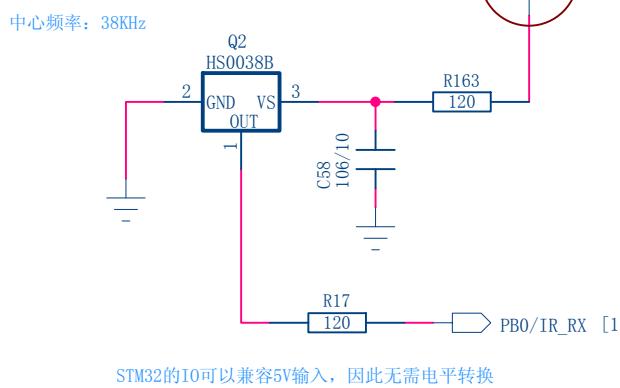
### PS/2接口 可连接键盘，鼠标，扫描枪



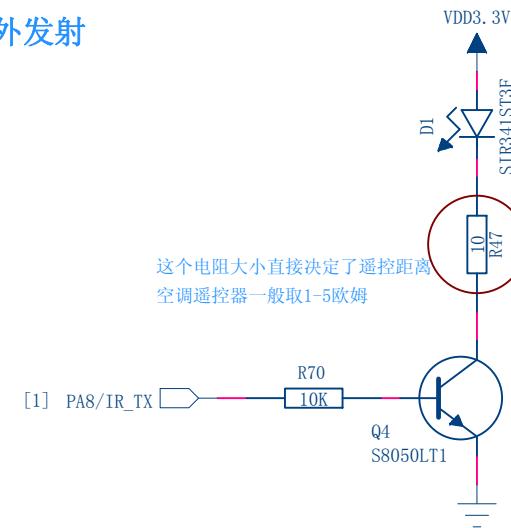
### 1-WIRE接口



### 红外接收



### 红外发射



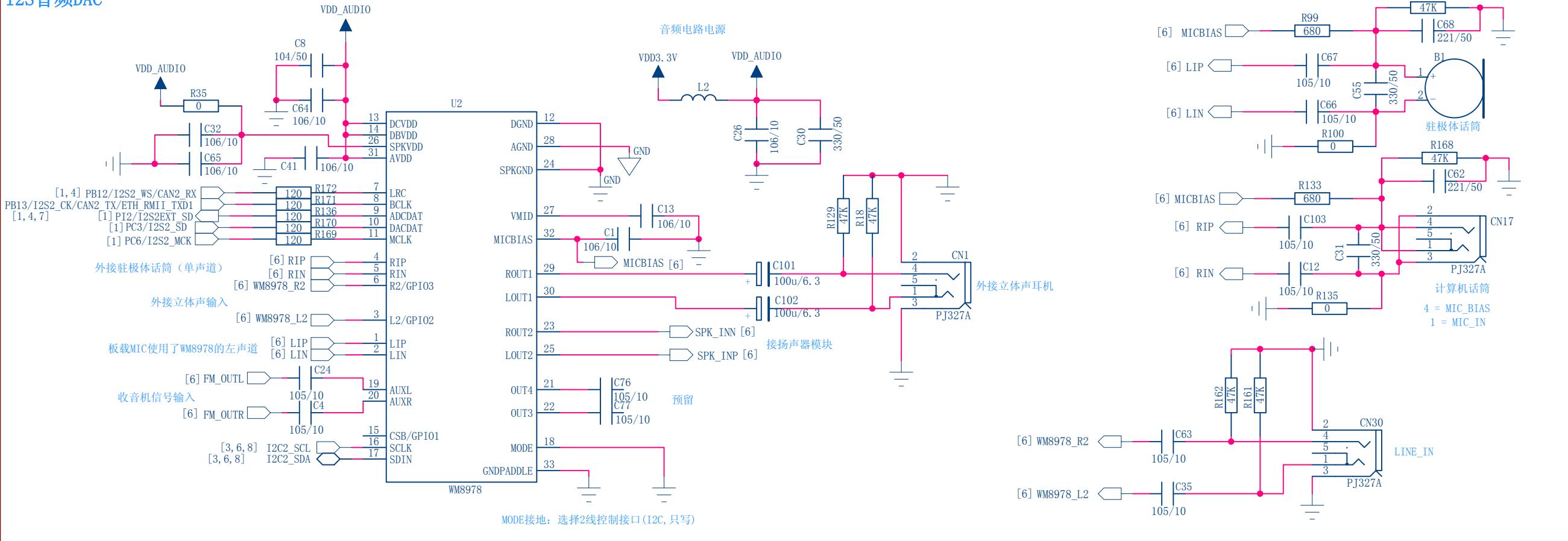
COMPANY:  
安富莱电子 www.armfly.com

TITLE: 【安富莱】STM32-V5开发板原理图 D030-3

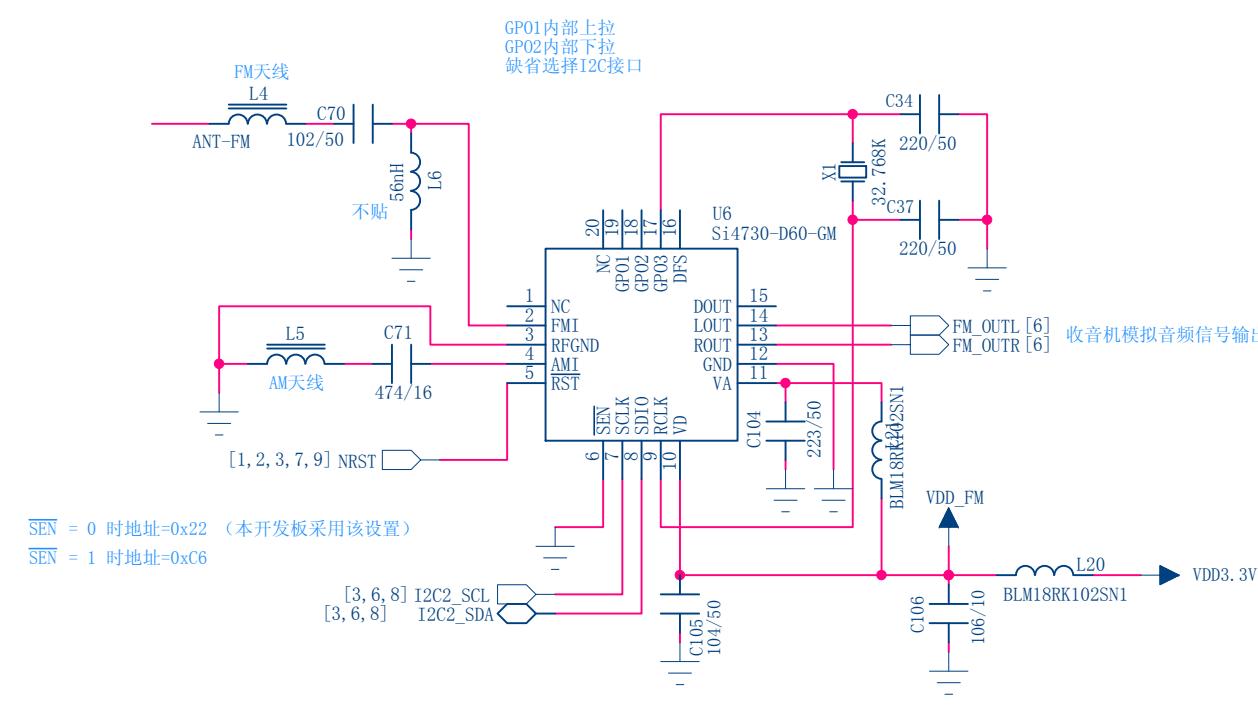
SIZE: A3 SHEET NAME: [5]KEY\_LED\_PS2 REV: 1.0

DRAWN BY: armfly DATE: 2013-5-19 SHEET: 5 OF 10

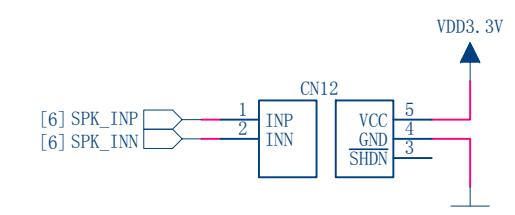
### I2S音频DAC



### AM/FM收音机模块



### AW8733功放模块排针接口



INP INN 是单声道差分输入  
SHDN 用于关闭电源和切换扬声器模块的增益 (本开发板未使用)

COMPANY:  
安富莱电子 [www.armfly.com](http://www.armfly.com)

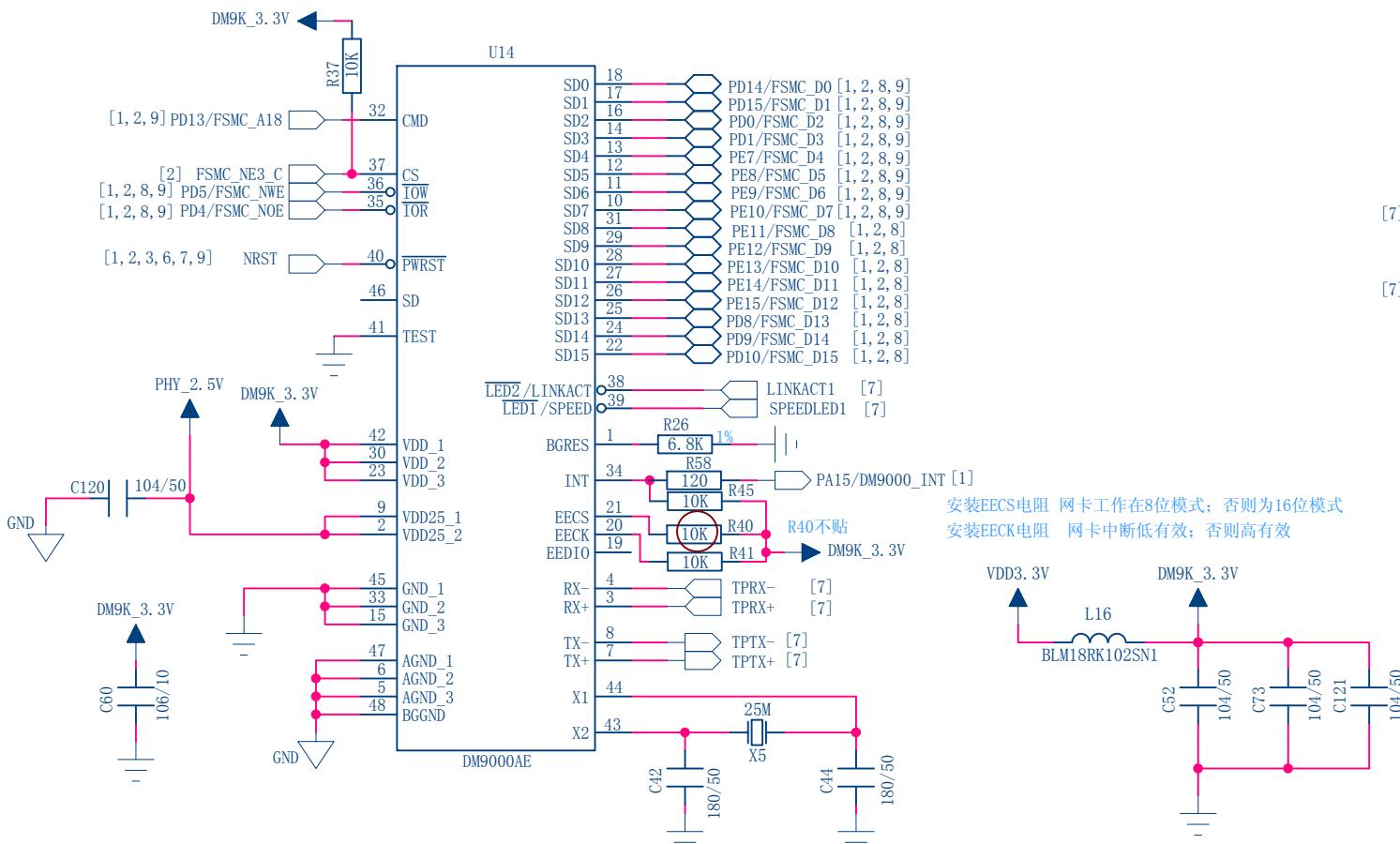
TITLE: 【安富莱】STM32-V5开发板原理图 D030-3

SIZE: A3	SHEET NAME: [6]WM8978_FM_SPK	REV: 1.0
DRAWN BY: armfly	DATE: 2013-5-19	SHEET: 6 OF 10

DM9000 网卡电路

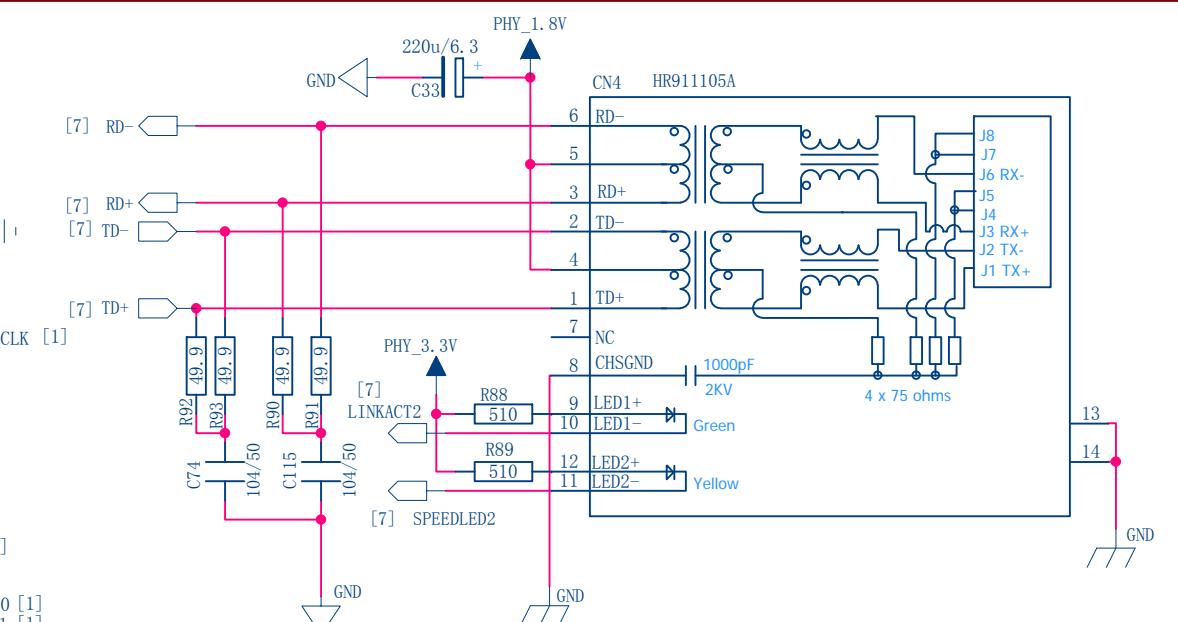
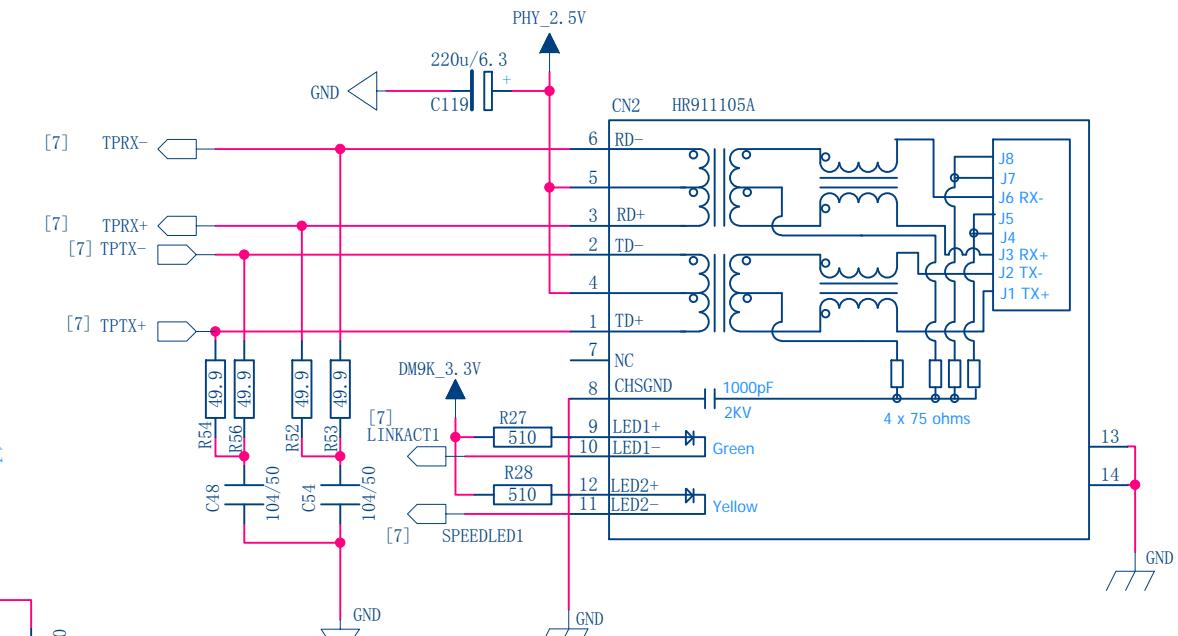
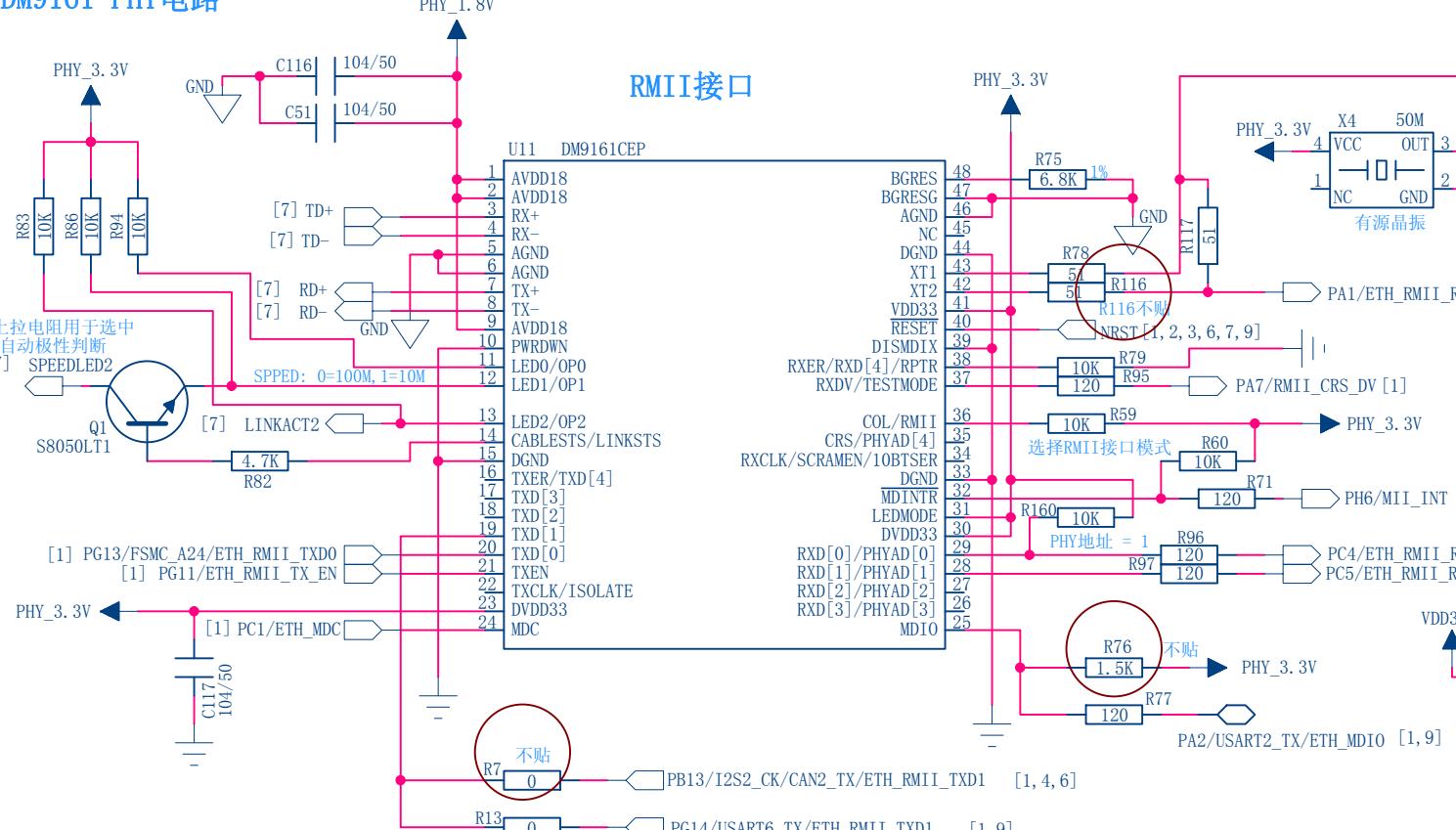
0x6840 0000

0x6848 0000



DM9161 PHY 电路

RMIT接



COMPANY: 安富莱电子 www.armfly.com

TITLE: 【安富莱】STM32-V5开发板原理图 D030-3

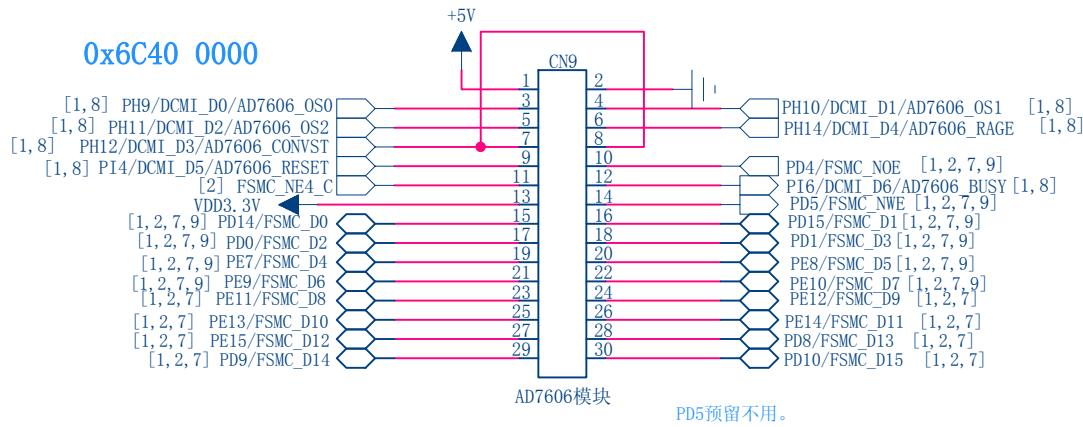
SIZE: A3 SHEET NAME: [7] ETHERNE

DRAWN BY: armfly DATE: 2013-5-19

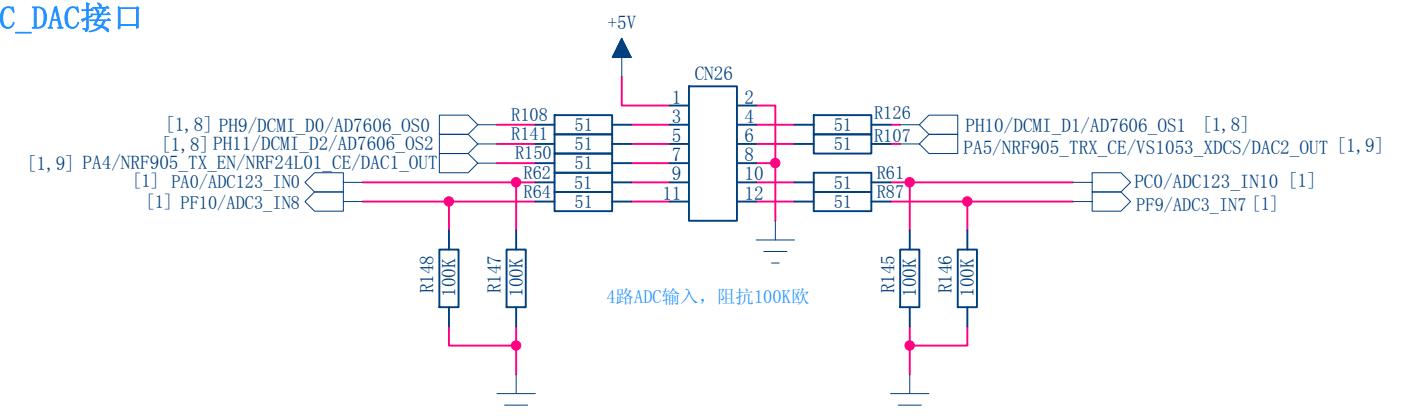
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Digitized by srujanika@gmail.com

### AD7606\_8通道16位ADC模块接口



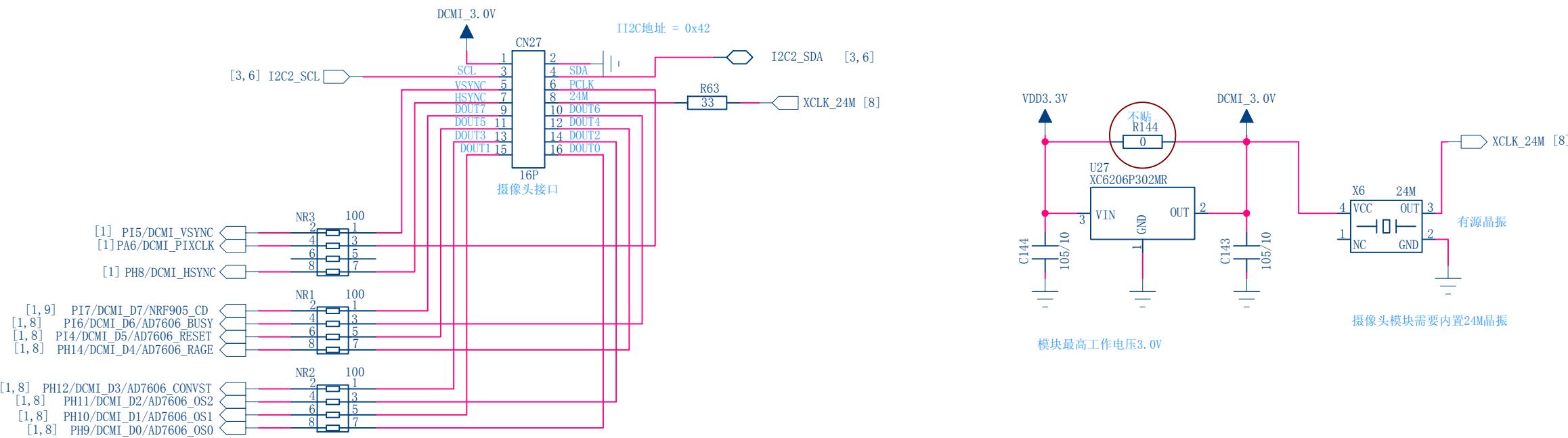
### ADC\_DAC接口



### 摄像头模块接口

摄像头接口的数据线和AD7606的控制口线复用

摄像头插上后可以直接使用摄像头  
如果使用AD7606，请拔掉摄像头



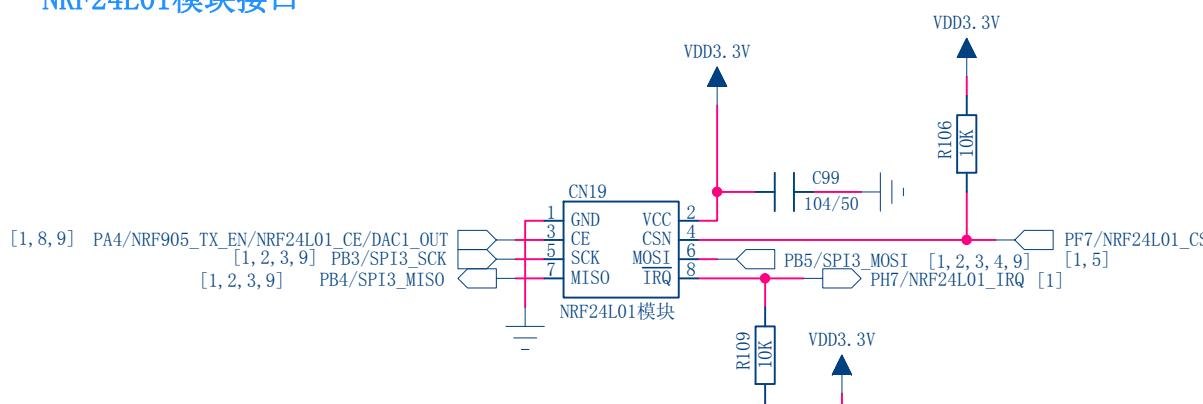
COMPANY:  
安富莱电子 [www.armfly.com](http://www.armfly.com)

TITLE: 【安富莱】STM32-V5开发板原理图 D030-3

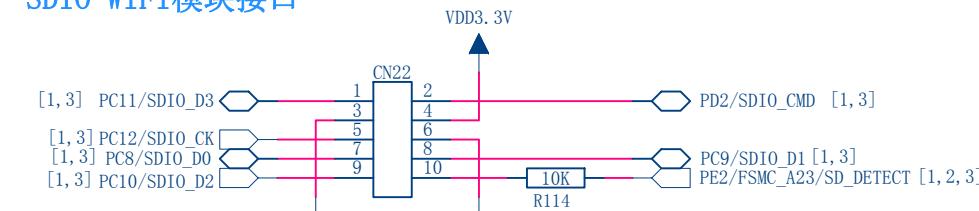
SIZE: A3 SHEET NAME: [8]AD7606\_CAMERA REV: 1.0

DRAWN BY: armfly DATE: 2013-5-19 SHEET: 8 OF 10

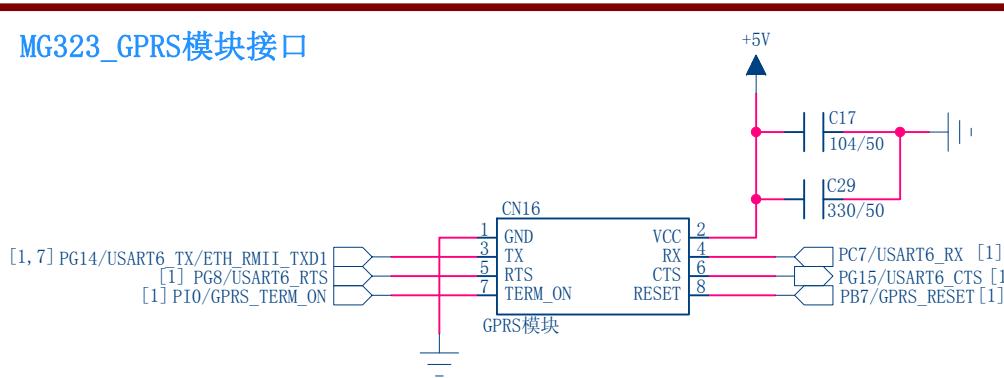
### NRF24L01模块接口



### SDIO WIFI模块接口



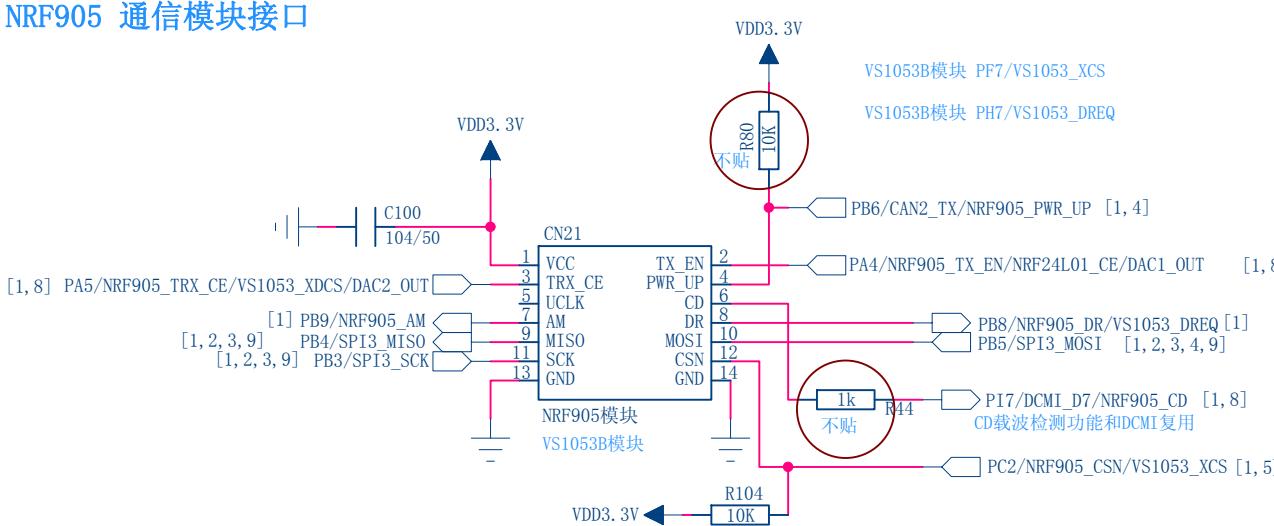
### MG323\_GPRS模块接口



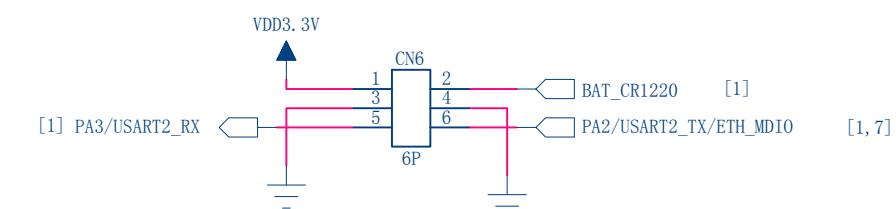
华为MG323\_GPRS模块供电电压范围：3.3V – 4.8V  
最大峰值电流 2A GPRS模式时平均电流 460mA

由于GPRS电源消耗功率接近USB口供电最大500mA的极限  
因此使用GPRS模块时，请使用外部电源供电

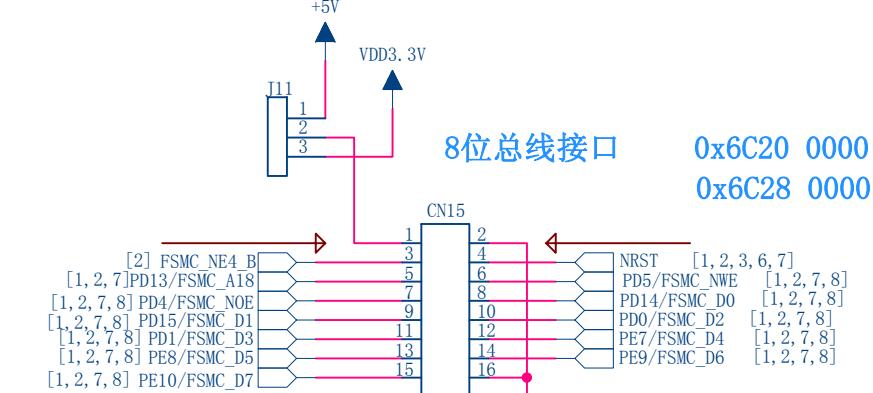
### NRF905 通信模块接口



### GPS模块接口



### OLED显示模块接口



COMPANY:  
安富莱电子 [www.armfly.com](http://www.armfly.com)

TITLE: 【安富莱】STM32-V5开发板原理图 D030-3

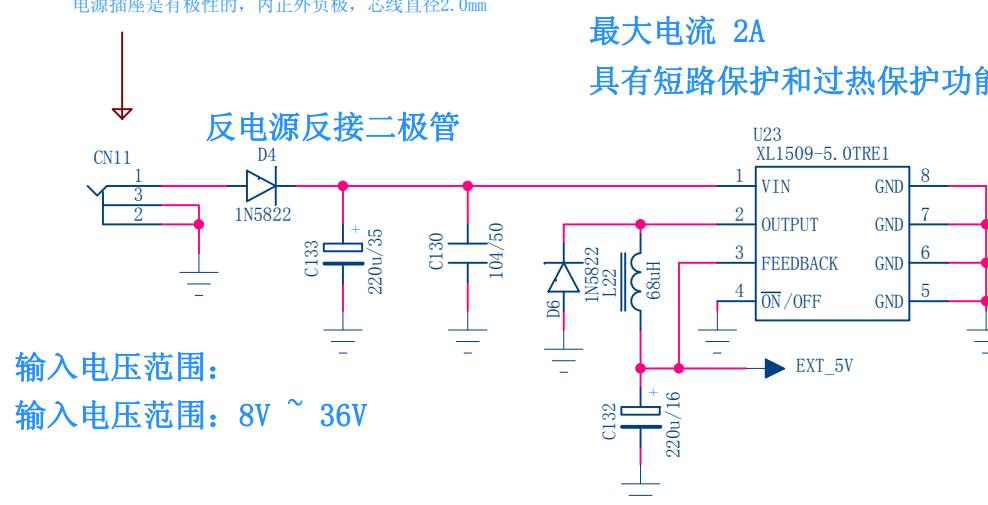
SIZE: A3 SHEET NAME: [9]NRF\_GPS\_WIFI\_GPRS

DRAWN BY: armfly DATE: 2013-5-19

REV: 1.0 SHEET: 9 OF 10

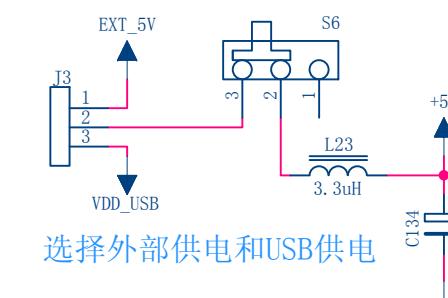
### 外部供电电源电路

电源插座是有极性的，内正外负极，芯线直径2.0mm



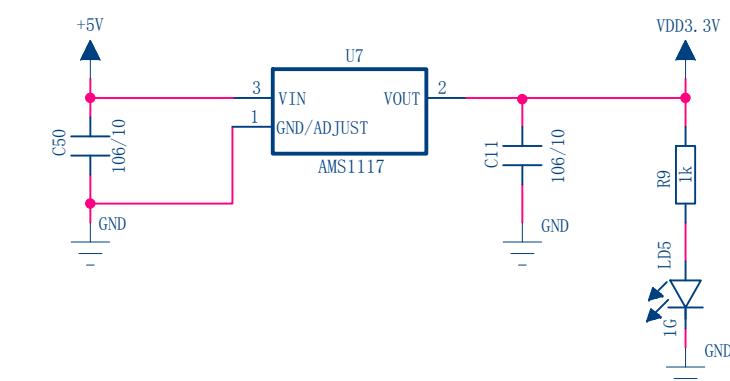
### 外部供电电源电路

#### 电源开关

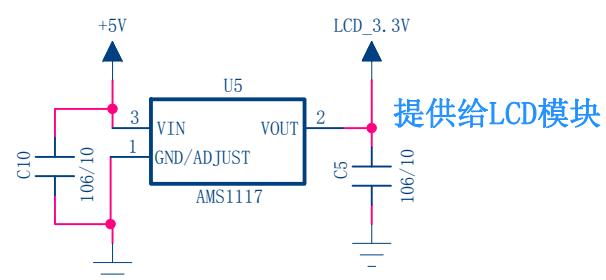


### 外部供电电源电路

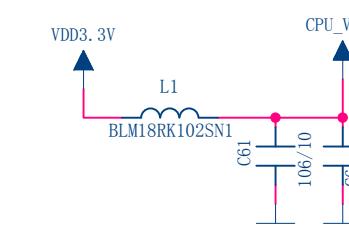
#### 3.3V电源电路（提供给CPU和大部分外设）



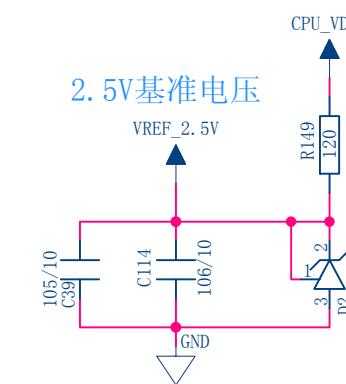
### 外部供电电源电路



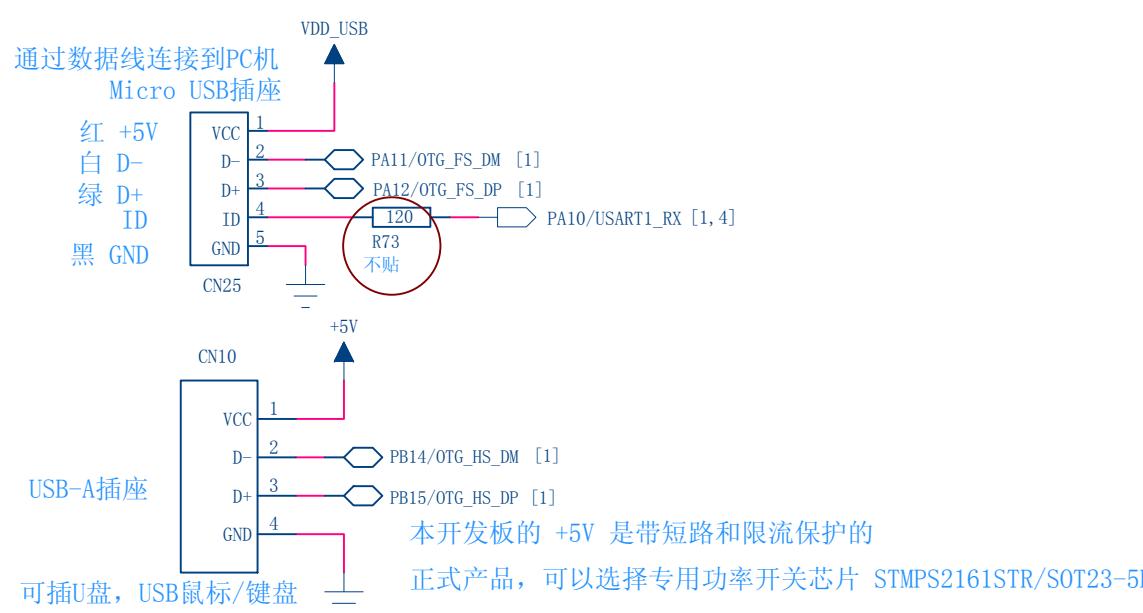
### CPU内部模拟部分电源



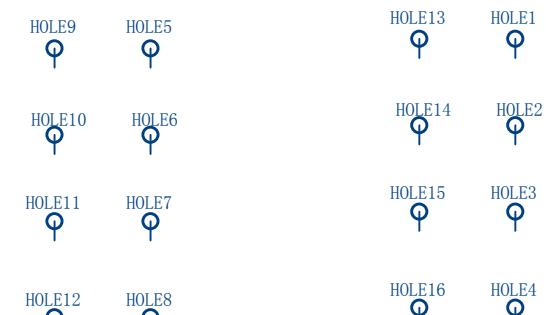
选择CPU内部ADC和DAC参考电压  
缺省是选择 VREF\_2.5V



### USB HOST (USB 2.0 全速12Mbps)



### 安装孔



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安富莱电子 [www.armfly.com](http://www.armfly.com)

TITLE: 【安富莱】STM32-V5开发板原理图 D030-3

SIZE: A3 SHEET NAME: [10]POWER\_USB REV: 1.0

DRAWN BY: armfly DATE: 2013-5-19 SHEET: 10 OF 10