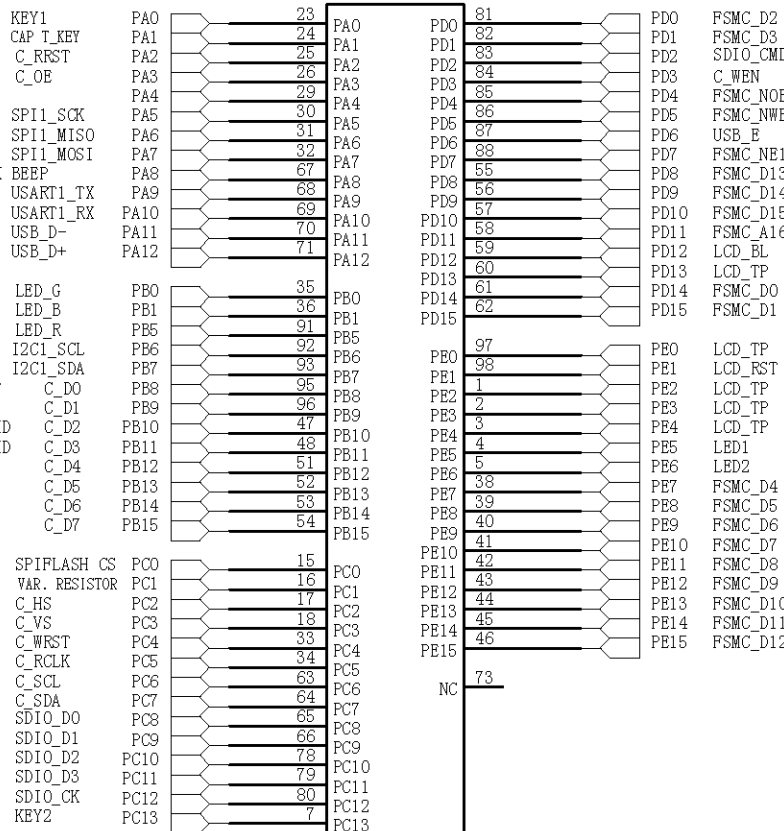


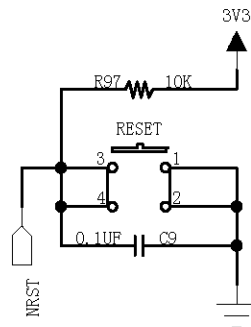
## MCU\_GPIO\_A

C\_: Stands For Camera

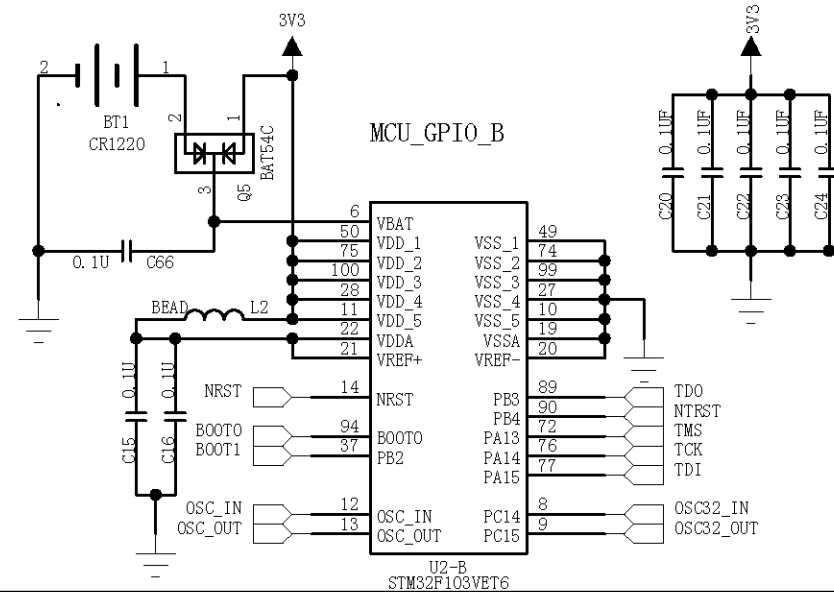


U2-A  
STM32F103VET6

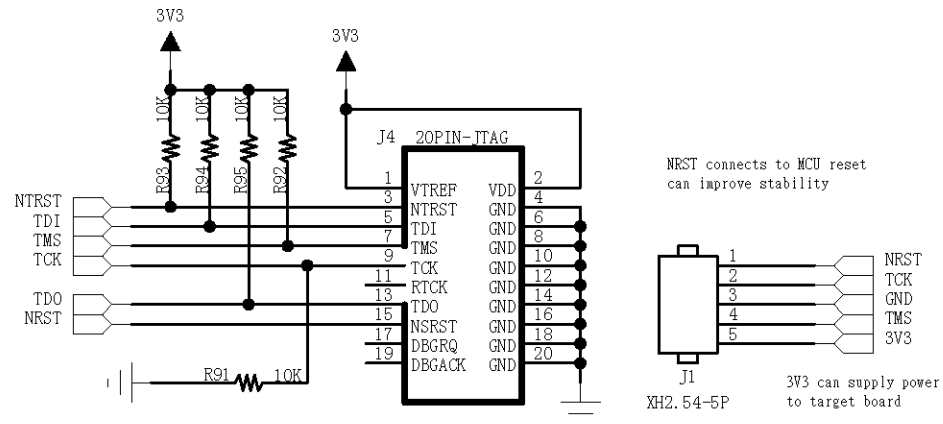
## RESET CIRCUIT



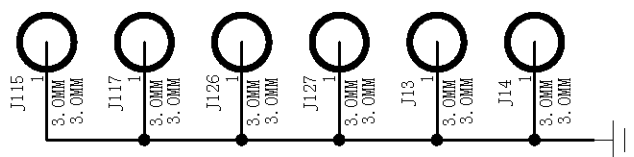
## MCU\_GPIO\_B



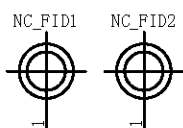
## JTAG



## 3M SCREW HOLE



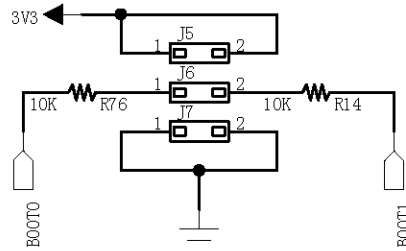
## MARK



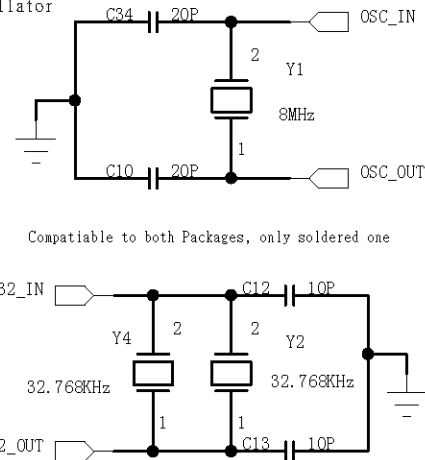
## BOOT SETTING

BOOT0	BOOT1	BOOT MODE
0	X	MAIN FLASH MEMORY
1	0	SYSTEM MEMORY/ISP
1	1	EMBEDDED SRAM

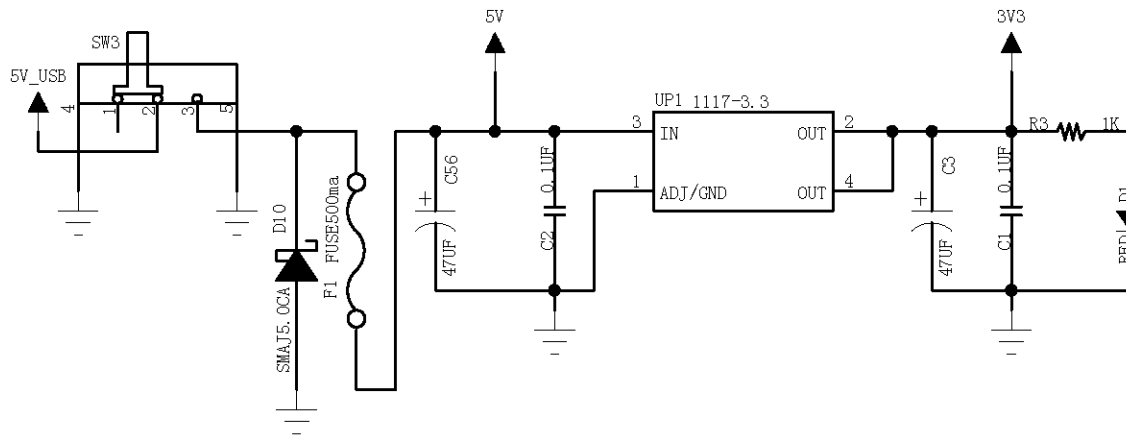
DEFAULT IS MAIN FLASH,  
BOOT 0 & 1 CONNECT TO GND



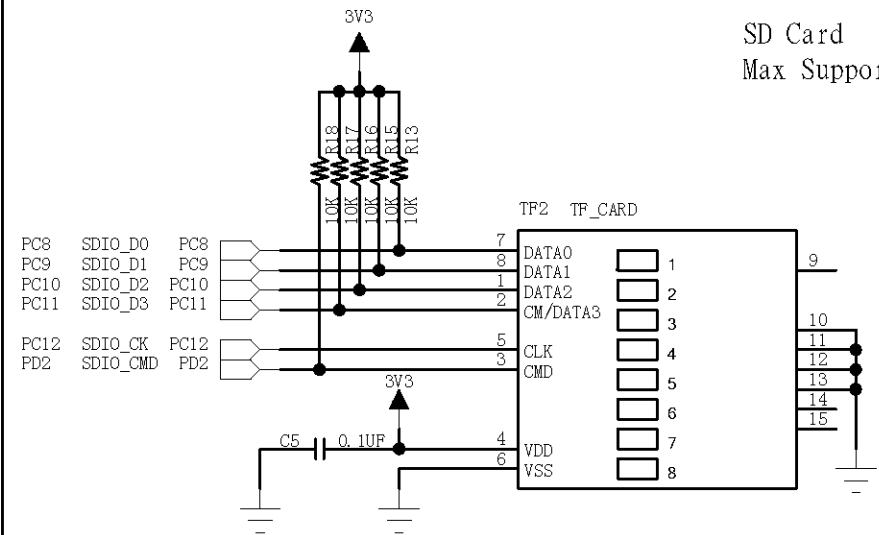
## Oscillator



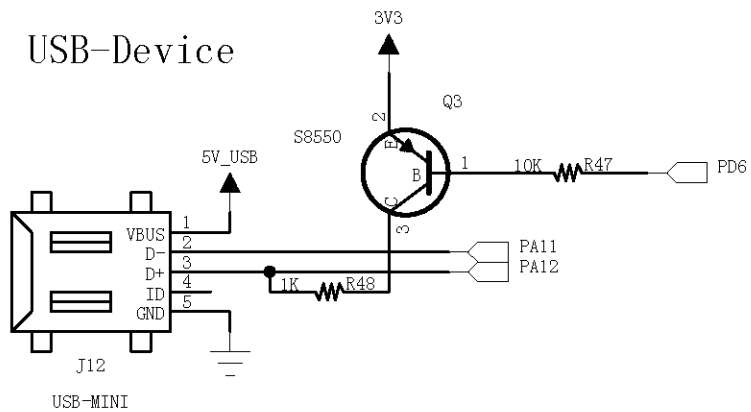
## POWER CIRCUIT USB-5V Supply Power



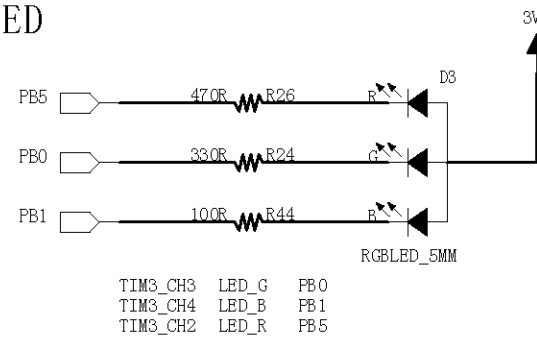
## SD Card Max Support 32GB



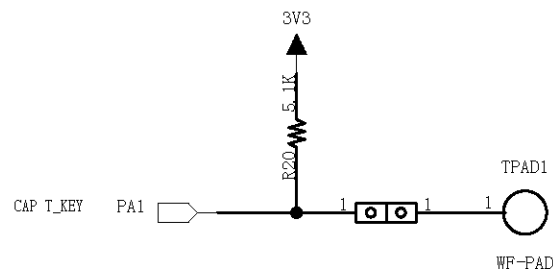
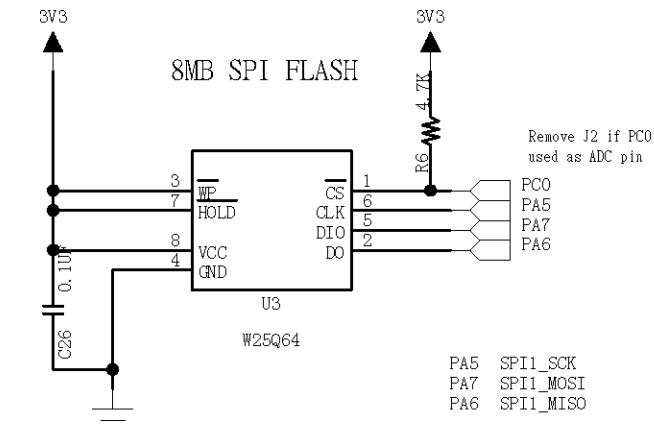
## USB-Device



## LED

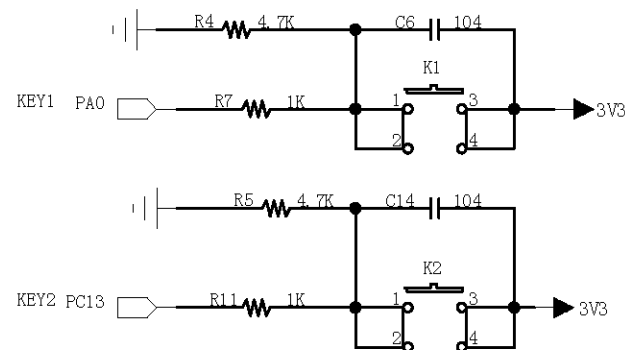


## 8MB SPI FLASH



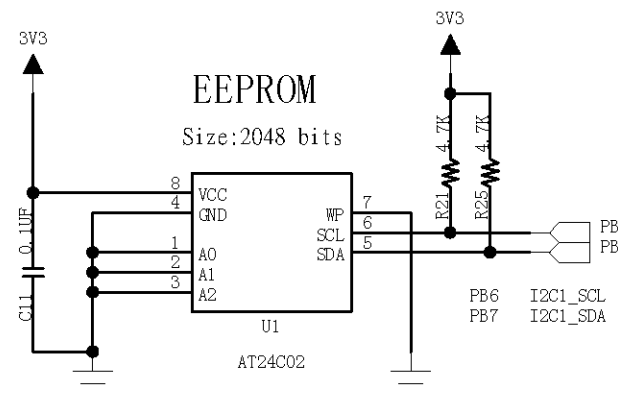
CAP T\_KEY  
PROGRAMMING USING ADC

## KEYS

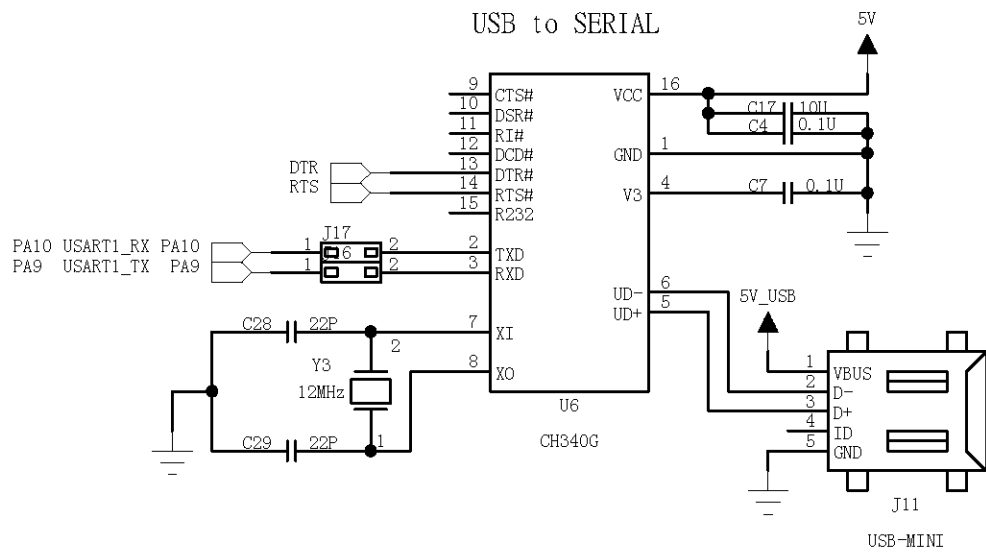


## EEPROM

Size:2048 bits

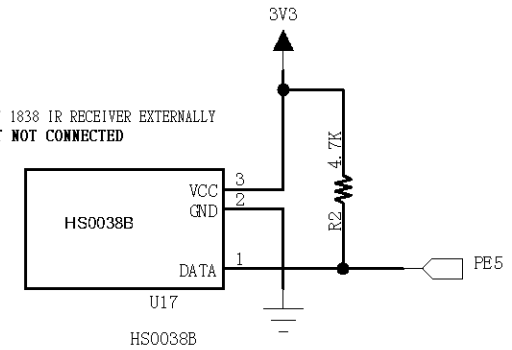


## USB to SERIAL

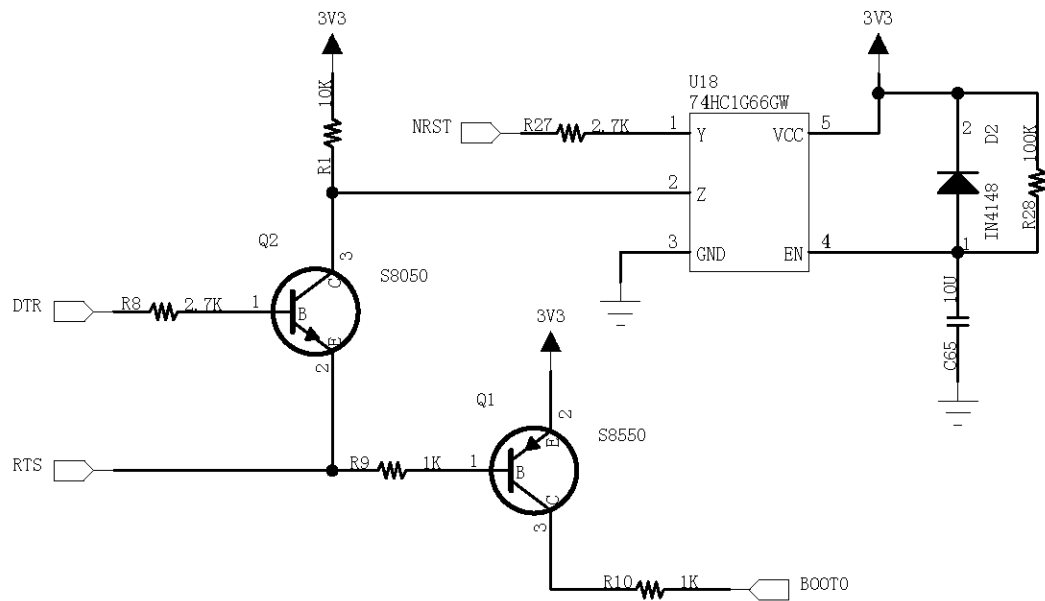


## IR CONNECTOR

CAN CONNECT 1838 IR RECEIVER EXTERNALLY  
BY DEFAULT NOT CONNECTED

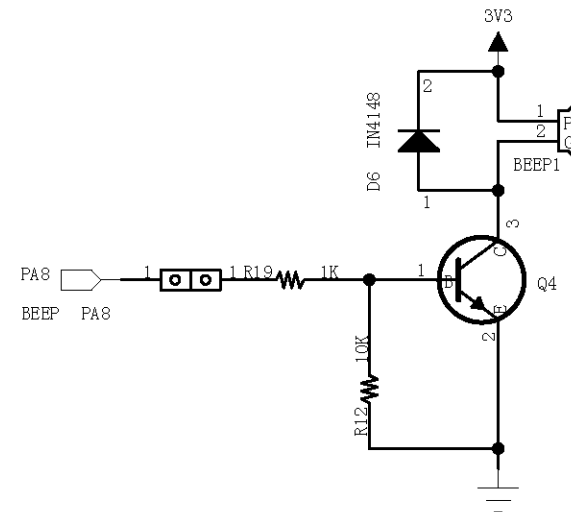
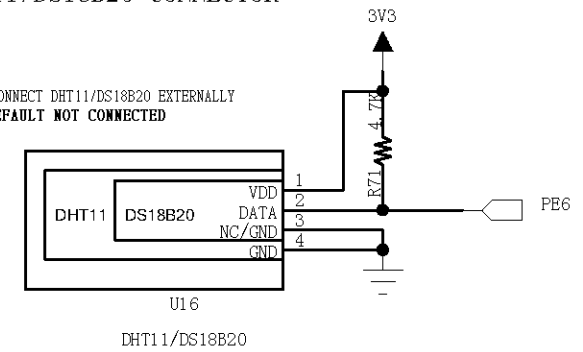


## ISP ONE KEY DOWNLOAD CIRCUIT



## DHT11/DS18B20 CONNECTOR

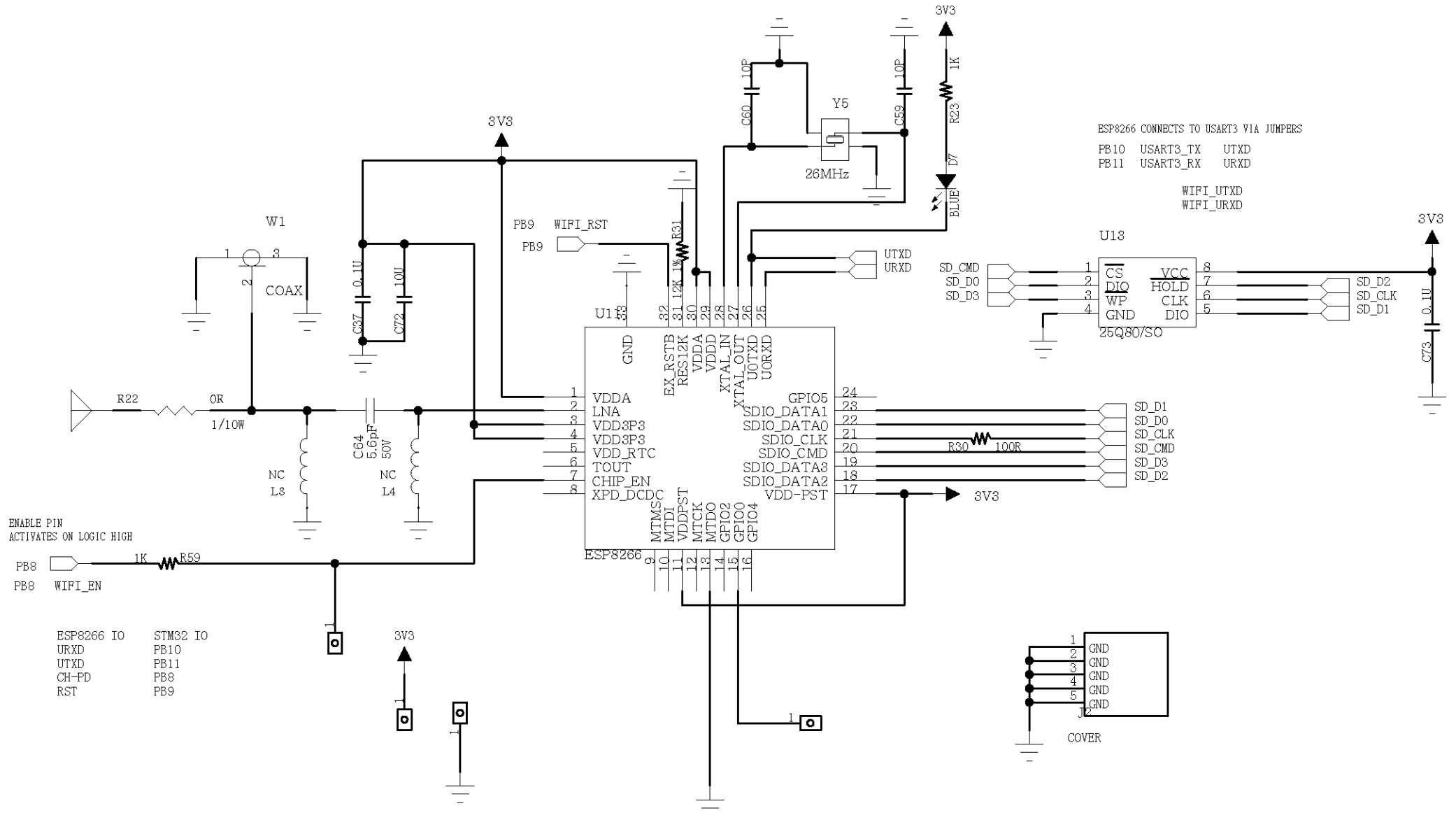
CAN CONNECT DHT11/DS18B20 EXTERNALLY  
BY DEFAULT NOT CONNECTED



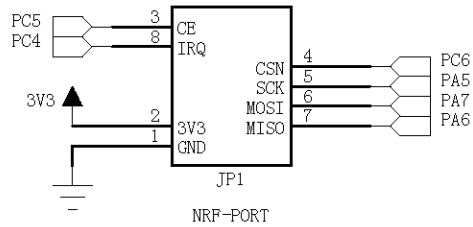
## WIFI ESP8266

Note

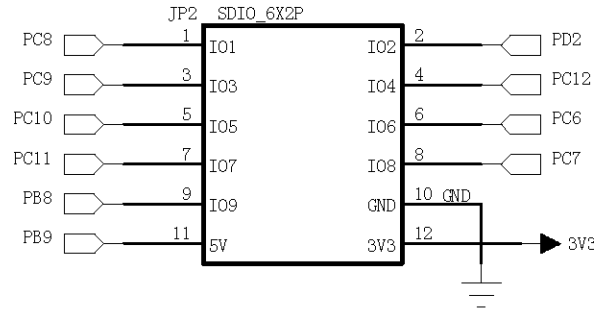
1. ESP8266 is designed for transferring small amount of data (e.g. less than 200 bytes)
2. The board is tested at a distance of 10-meter



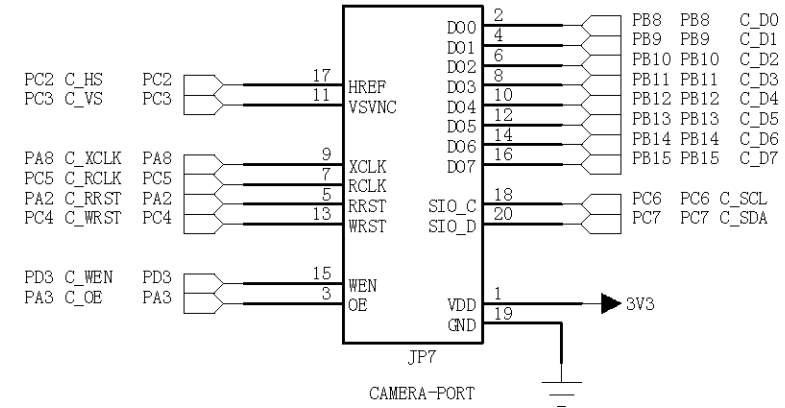
## NRF24L01



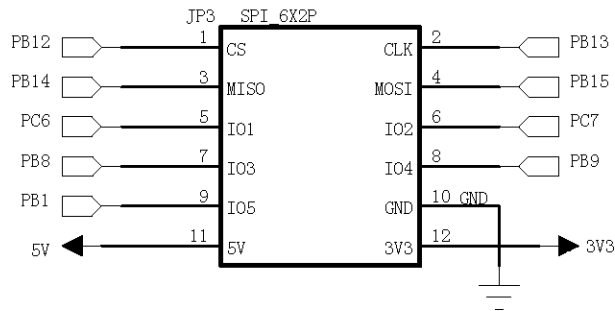
## SDIO



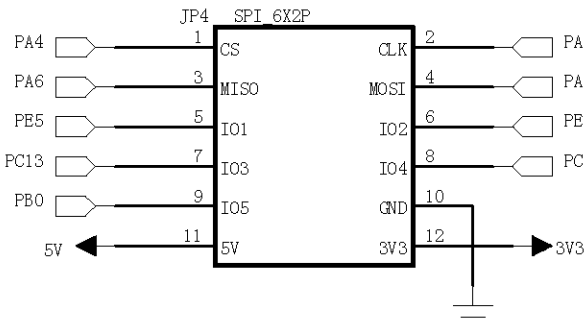
## CAMERA



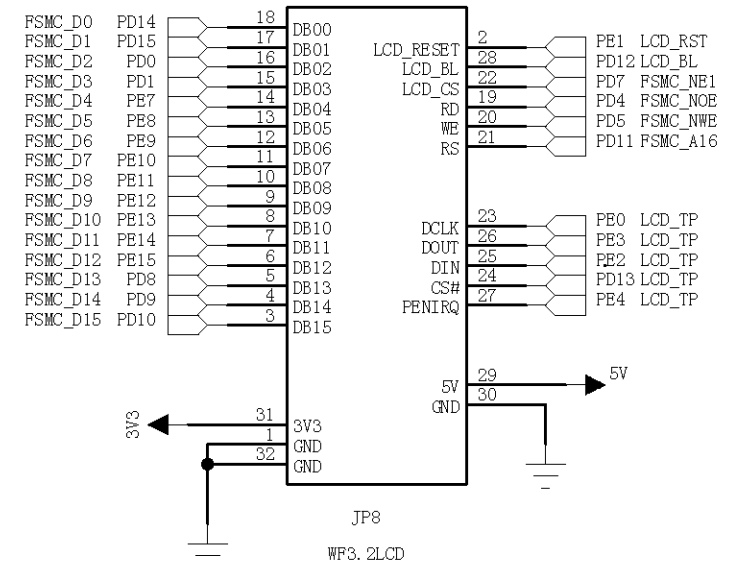
## SPI2/I2S



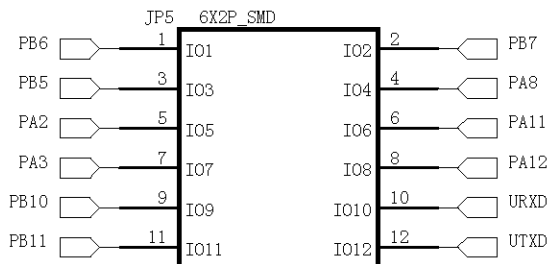
## SPI1



## LCD CONNECTOR

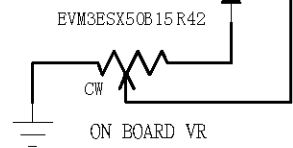
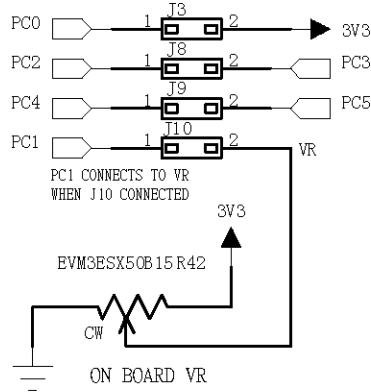


## I2C1/2-USART2/3

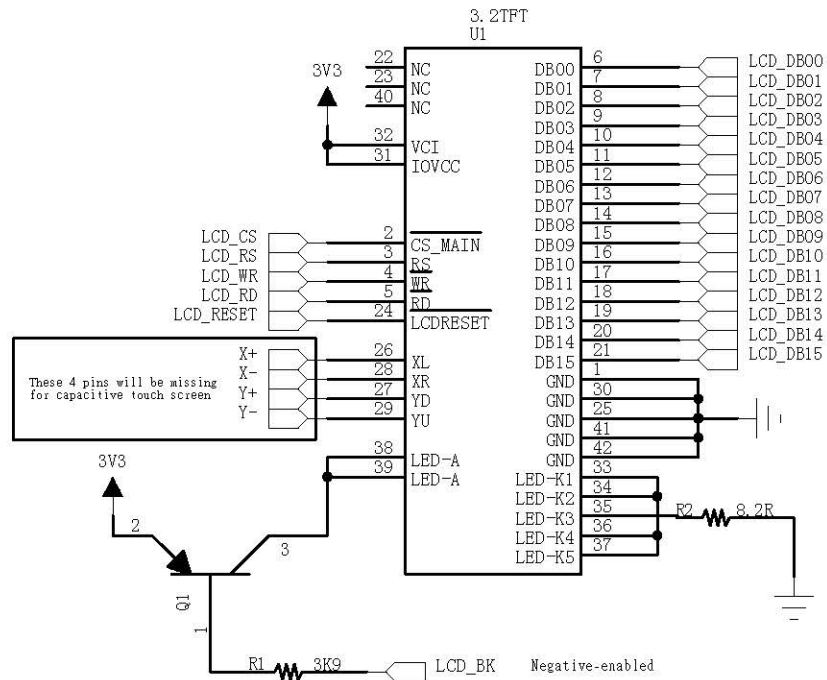


URXD UTXD for ESP8266  
 PB10: USART3\_TXD  
 PB11: USART3\_RXD  
 BY DEFAULT 9 10 11 12 CONNECTED BY JUMPERS

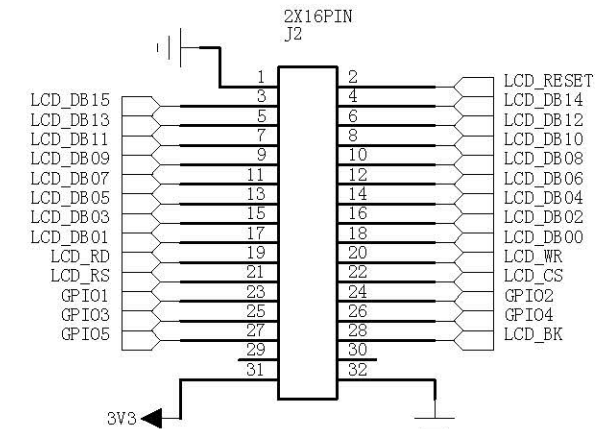
## ADC



### 3.2 inch TFT

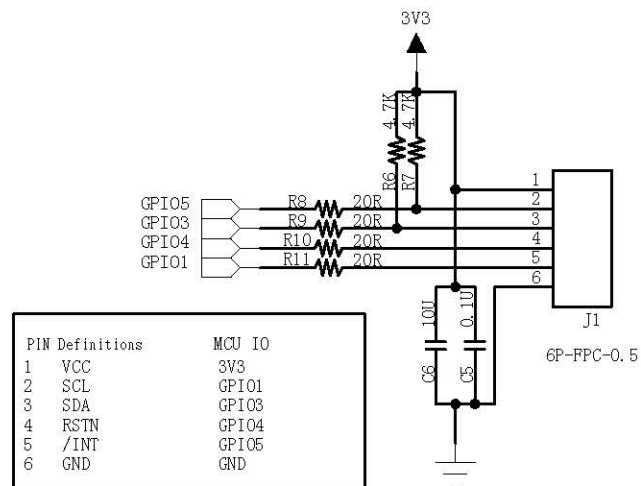


## 2X16PIN Connector



### 3.2 inch Capacitive Touch Scren

No need to solder this part if resistive touch screen is used



## Resistive Touch Screen Controller

No need to solder this part if capacitive touch screen is used

