



The connection between the module and ESP8266 should not make an error, and it will succeed once.

W5100	ESP8266
+5V	
NSS	SS
MO	MOSI
GND	GND
RST	GPIO4
SCK	SCLK
MI	MISO

result

The experiment is successful, you can use Ethernet to communicate with ESP8266.

experience

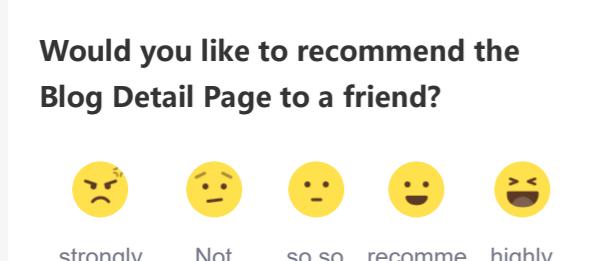
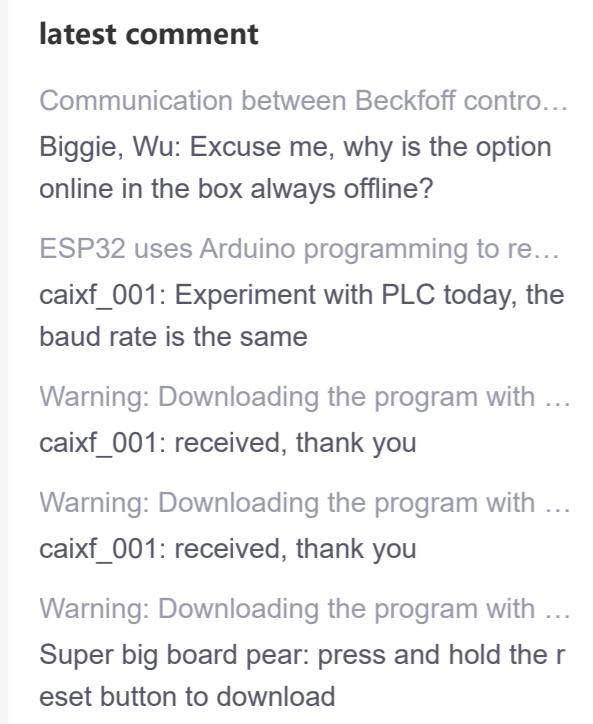
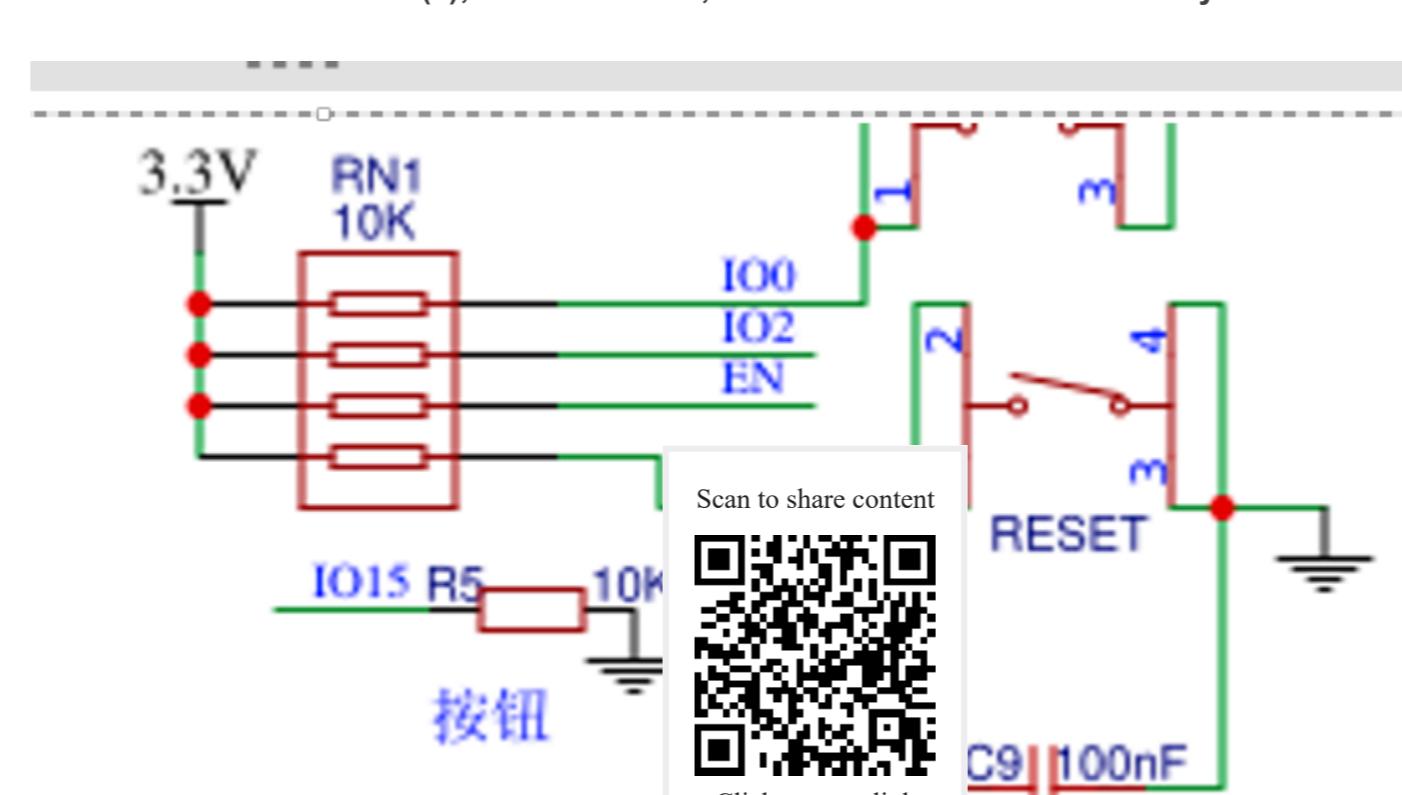
I don't know why the W5500 keeps crashing. Nothing happens. Neither watchdog works. Experimented with [ESP32](#) and W5500, ESP32 cannot be used as the host because the library used is the header file in the C:\install\Arduino IDE\libraries\Ethernet directory, and EthernetServer myServer(23); cannot be used to define variables. Compilation fails. Another experience is that when you don't know the SPI wiring, you can use the printing method to get the SPI port.

In the past few days, I have tested the ESP32 using the W5500. The ESP32 can be used as a client and communicate with the server, but I don't know why it still cannot be used as a server.

postscript

Recently, some netizens discussed the board communication between ESP8266 and W5500, and experimented. You can use ESP8266 to connect W5500 to realize Ethernet wired communication, just add Ethernet init(5) in the initialization program; this command selects CSIO5 as the chip select signal. Also note

- The default GPIO15 cannot be used as the chip select CS signal. If GPIO15 is used, it will crash. This may be related to a 10KΩ grounding resistance connected to GPIO15 of our board.
 - The chip select signal selects other ones that can communicate and realize the transmission of TCP and so on.



Translated to: English

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The problem that the server or ESP32+W5500 cannot run is solved. You can use ESP32 and W5500 to realize wired Ethernet communication. The key is that there is a problem with the library function, and the Server.h library needs to be used when compiling. The address of my library is the following location on the machine:

```
C:\Users\caixf_001\Documents\ArduinoData\packages\esp32\hardware\esp32\1.0.6\cores\esp32\Server.h:28:18: note:
    virtual void Server::begin(uint16_t)
    virtual void begin(uint16_t port=0) =0;
```

Change this header file to the following form to compile and communicate with W5500.

```
1 class Server: public Print
2 {
3     public:
4         //virtual void begin(uint16_t port=0) =0; modified by CAI at 2021-12-13
5         virtual void begin() = 0;
6 };
```

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基于STM32+W5500, 移植Ethernet文件并基于NTP实现RTC对时更新, USART可实现DMA接收任... 02-01
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ESP32 + W5500, 用Arduino编程 caixf的博客 861
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[STM32+W5500+MQTT+ONENET] 27, MQTT 协议接入 OneNET 実... 6-15
#include "W5500_conf.h" #include "w5500.h" #include "socket.h" #include "onenet.h" #include "MqttKit.h" #include "utility.h" #...

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0. 先汇总, 再逐步介绍各个部分的问题。 打开 socket(SOCK_TCPC, Sn_MR_TCP.local_port++, Sn_MR_ND); } } /* socket...

W5500 以太网芯片及模块使用 gjy127 的博客 1 万+
这模块买了好久, 跑通了例程就扔一边了, 现在捡起来, 把原来查询的模式改成中断的模式, 并且 使用 w5500 官方库函数...

ZigBee+ESP8266 网关测试 weixin_43729257 的博客 6245
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基于 ESP32 的手持 CAN 工具 (汽车仪表) zhengtong822 的博客 3676
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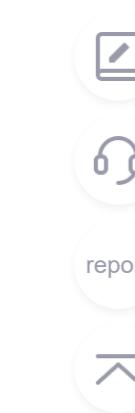
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