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我想用一个 Arduino UNO R3+Wifi 扩展板(AP 板) 作为热点, 然后接受来自另外一个 Arduino UNO R3+Wifi 扩展板 (STA 板) 的消息。  
(比如说 STA 板发送 “1” 给 AP 板, AP 板收到 “1” 后亮灯)。

首先是设为 AP 模式的配置图：

ESP8266 Serial WiFi Shield

Serial Setting:

Baud :

9600

Databits:

8

Parity:

NONE

Stopbits:

1

Access Point(AP) :

AP name:

hotspot

AP Password:

12345678

Encrypt Method:

OPEN

Hide AP:

☒ Yes

☐ No

AP IP address:

192.168.4.1

AP Netmask:

255.255.255.0

AP Gateway address:

192.168.4.1

AP Netmask:

255.255.255.0

AP Gateway address:

192.168.4.1

Station :

Enable :

☐ Yes

☒ No

Refresh

AP Name:

Doit

AP List:

AP Password:

123456789

NetWork Setting:

Socket Type:

☒ Server

☐ Client

Transport Type:

☒ TCP

☐ UDP

Remote IP:

192.168.1.100

Local Port:

8000

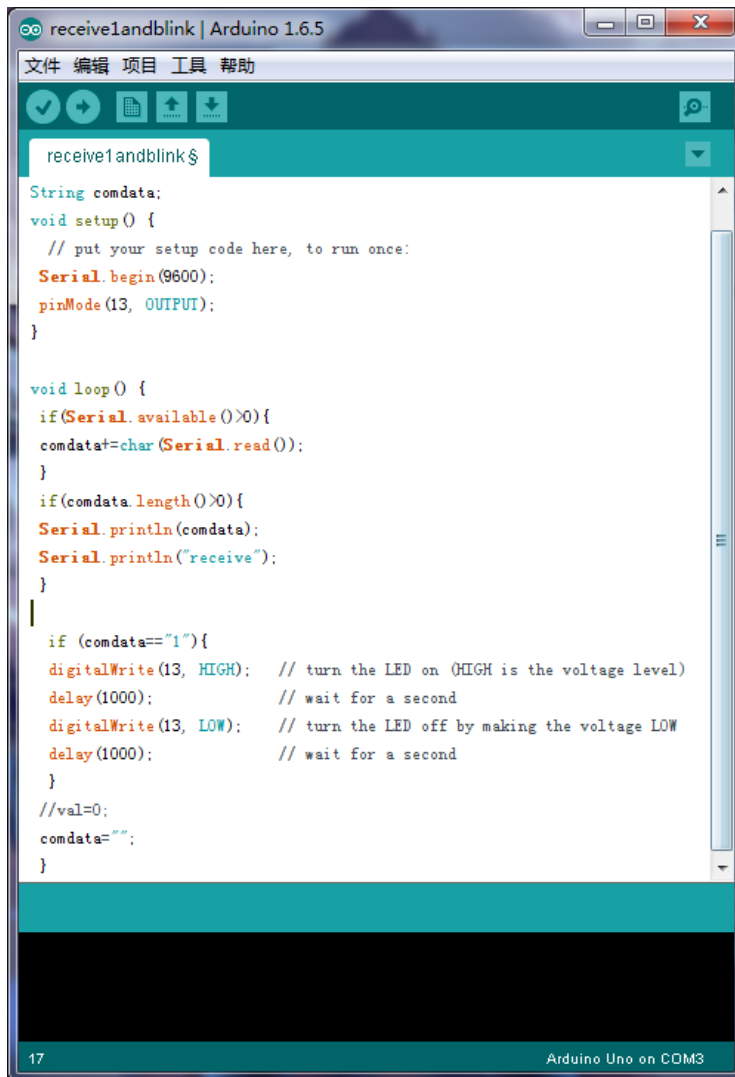
Submit

FactoryDefault

Version 2.2 based on ESP8266 SDK 1.4.0

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AP 板的 ARDUINO 代码：



接着是 STA 板的配置：

### ESP8266 Serial WiFi Shield

Serial Setting:

Baud: 9600

Databits: 8

Parity: NONE

Stopbits: 1

Access Point(AP):

AP name: sender

AP Password: 12345678

Encrypt Method: OPEN

Hide AP: ☒ Yes ☐ No

AP IP address: 192.168.4.1

AP Netmask: 255.255.255.0

AP Gateway address: 192.168.4.1

AP Netmask: 255.255.255.0

AP Gateway address: 192.168.4.1

Station:

Enable: ☒ Yes ☐ No [Refresh](#)

AP Name: hotspot

AP List: hotspot

AP Password: 12345678

NetWork Setting:

Socket Type: ☐ Server ☒ Client

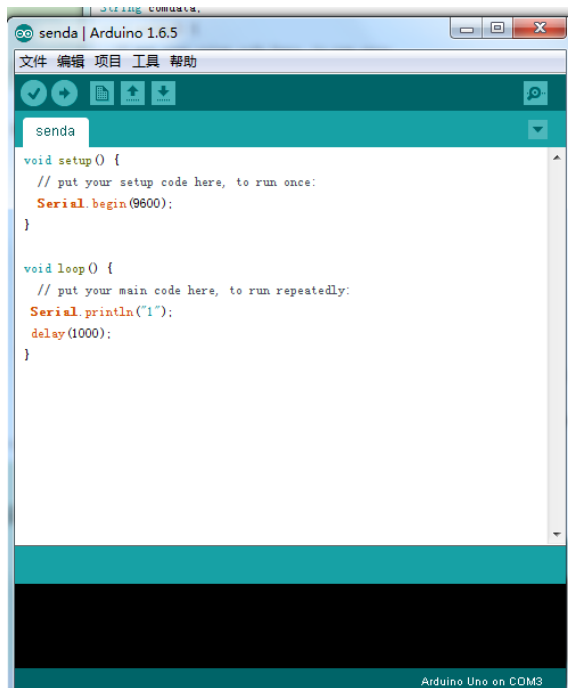
Transport Type: ☒ TCP ☐ UDP

Remote IP: 192.168.4.1

Remote Port: 9000

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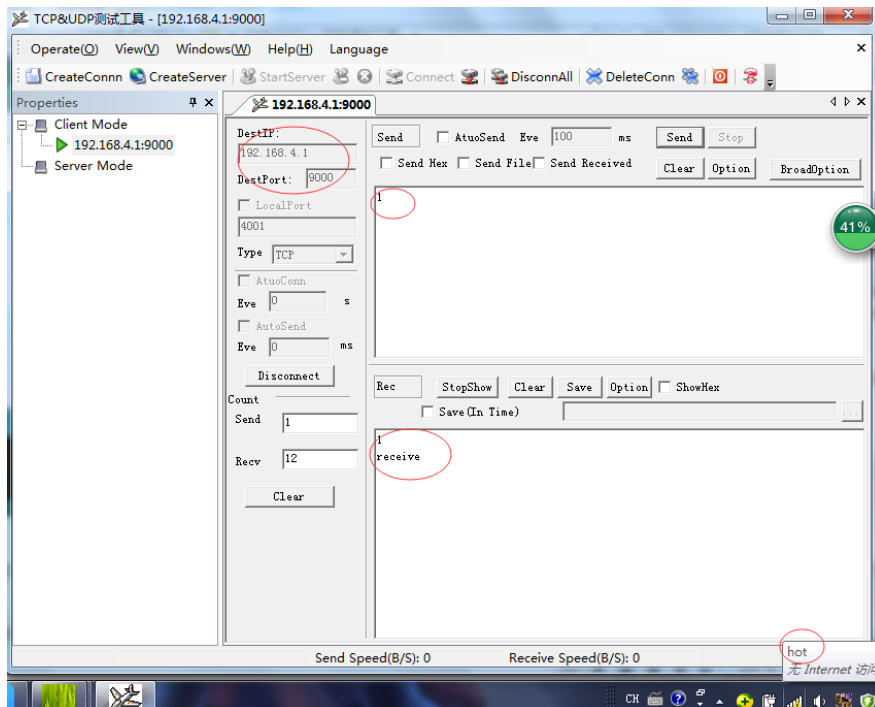
STA 板的代码：



```
void setup() {  
  // put your setup code here, to run once:  
  Serial.begin(9600);  
}  
  
void loop() {  
  // put your main code here, to run repeatedly:  
  Serial.println("1");  
  delay(1000);  
}
```

配置完后两个板子都是保持蓝灯常亮，也就是 STA 板连上 AP 板。

我用工具测试了下 AP 板，结果是可行的，我连的 LED 灯会 blink:



测试 STA 板:



ip=115.29.109.104  
port=6572

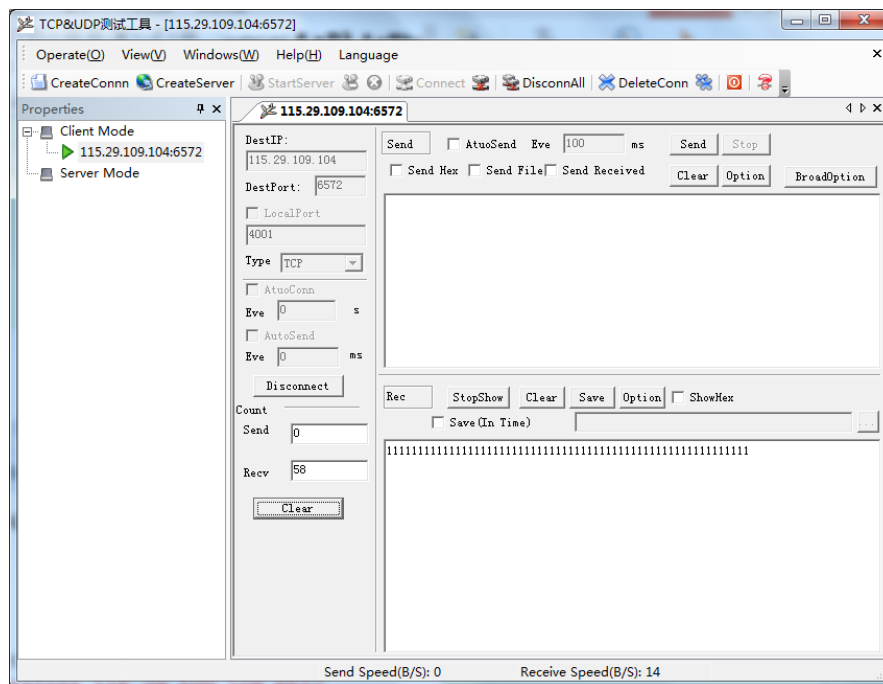
How to use :

Step 1:

The client connects 115.29.109.104 and 6572;

For examples: telnet 115.29.109.104 6572

Step 2:



问题是当我把 STA 板也供电后, STA 板一直发送“1”,但是 AP 板显示没接收到任何东西。

所以上测试结果说明一个问题,就是 STA 板和 AP 板没连上。

以下是解决方法：  
检查并更改了 STA 板的配置：

**ESP8266 Serial WiFi Shield**

Serial Setting:

Baud : 9600  
Databits: 8  
Parity: NONE  
Stopbits: 1

Access Point(AP) :

AP name: Sender  
AP Password: 12345678  
Encrypt Method: OPEN  
Hide AP: ☐ Yes ☒ No  
AP IP address: 192.168.3.1  
AP Netmask: 255.255.255.0  
AP Gateway address: 192.168.3.1

Station :

AP Gateway address: 192.168.4.1  
Enable : ☒ Yes ☐ No Refresh  
AP Name: Dolt  
AP List: TP-LINK\_454E  
AP Password: 123456789

NetWork Setting:

Socket Type: ☐ Server ☒ Client  
Transport Type: ☒ TCP ☐ UDP  
Remote IP: 192.168.4.1  
Remote Port: 9000

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Version 2.2 based on ESP8266 SDK 1.4.0  
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把 IP 地址和 gateway 都 改成 192.168.3.1（192.168.5.1 也可以只要不是 192.168.4.1 就行）  
因为这个 STA 板的 IP 之前是 192.168.4.1， 和 AP 板的一样，所以形成闭路循环，改了就可以通信了。

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