

WizFi Shield Manual

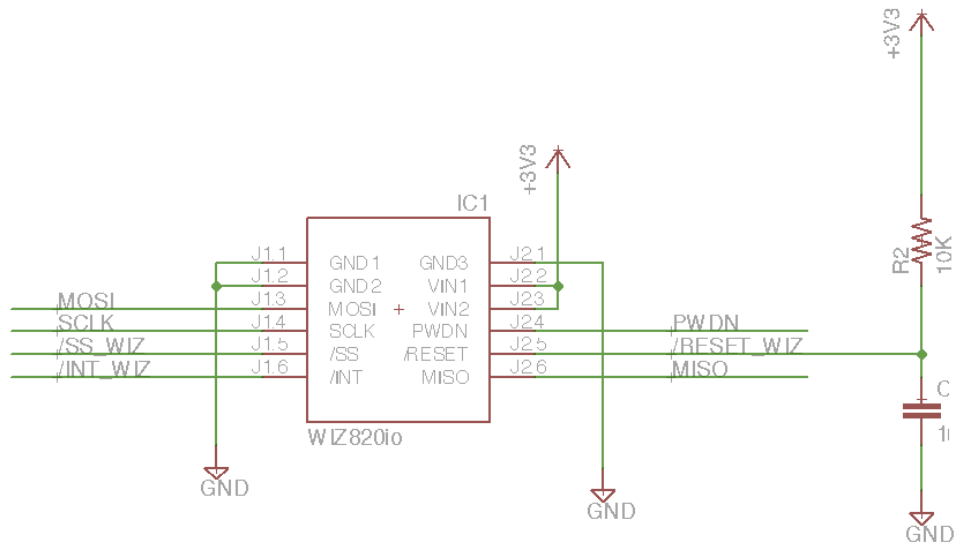
Introduction

WizFi shield uses Wiz820io, WizFi210 module and supports the Ethernet and Wi-Fi connectivity simultaneously.

1. Hardware

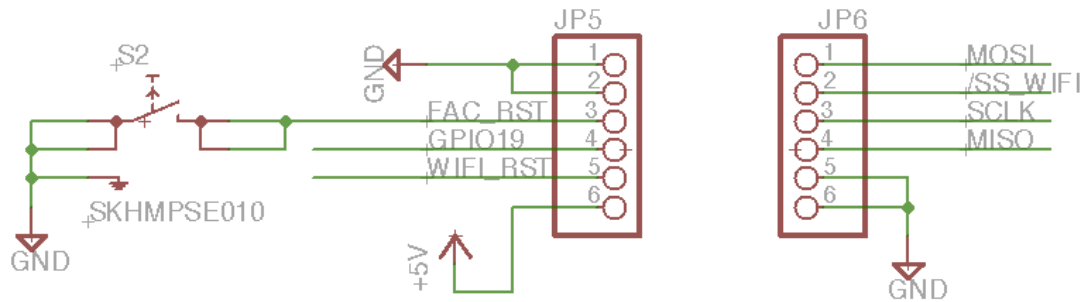
a) Ethernet

- Wiz820io is connected with SPI signals.
- Other signals
 - /SS_WIZ (Input): SPI slave chip select signal
 - /RESET_WIZ (Input): H/W reset signal
 - PWDN (Input): Set power down mode
 - /INT_WIZ (Output): Interrupt signal

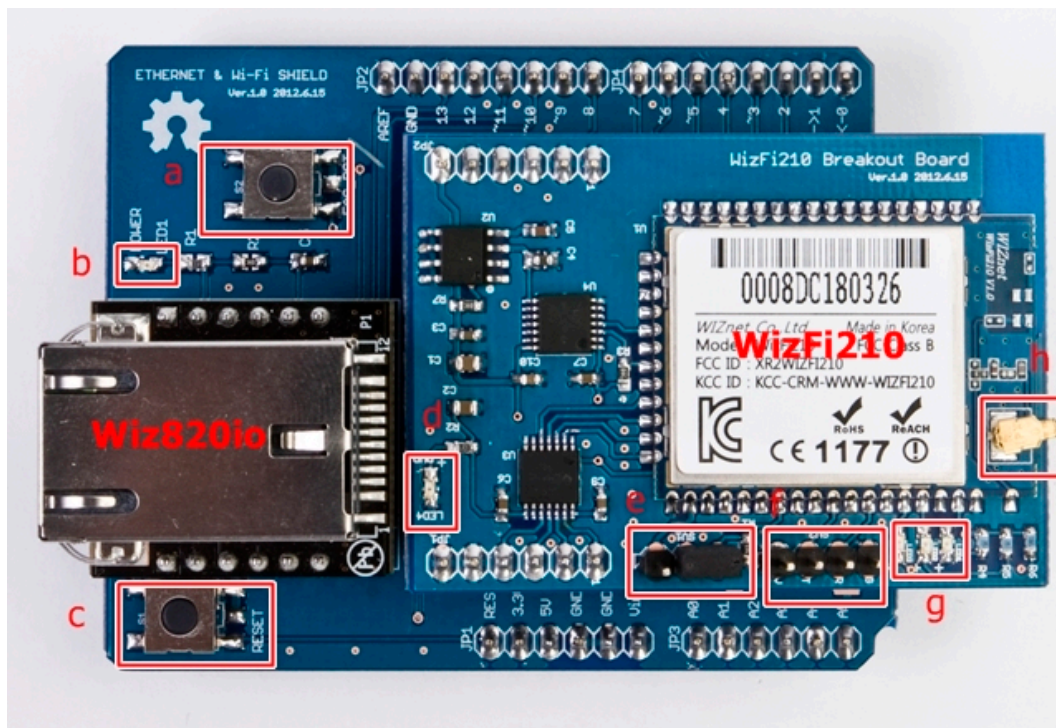


b) Wi-Fi

- WizFi210 module is connected with SPI signals
- Other signals
 - /SS_WIFI(Input): SPI slave chip select signal
 - FAC_RST (Input): Factory reset
 - GPIO19 (Output): If this signal is high, indicate the data in the receive buffer in the WizFi210
 - WIFI_RST (Input): Reset signal



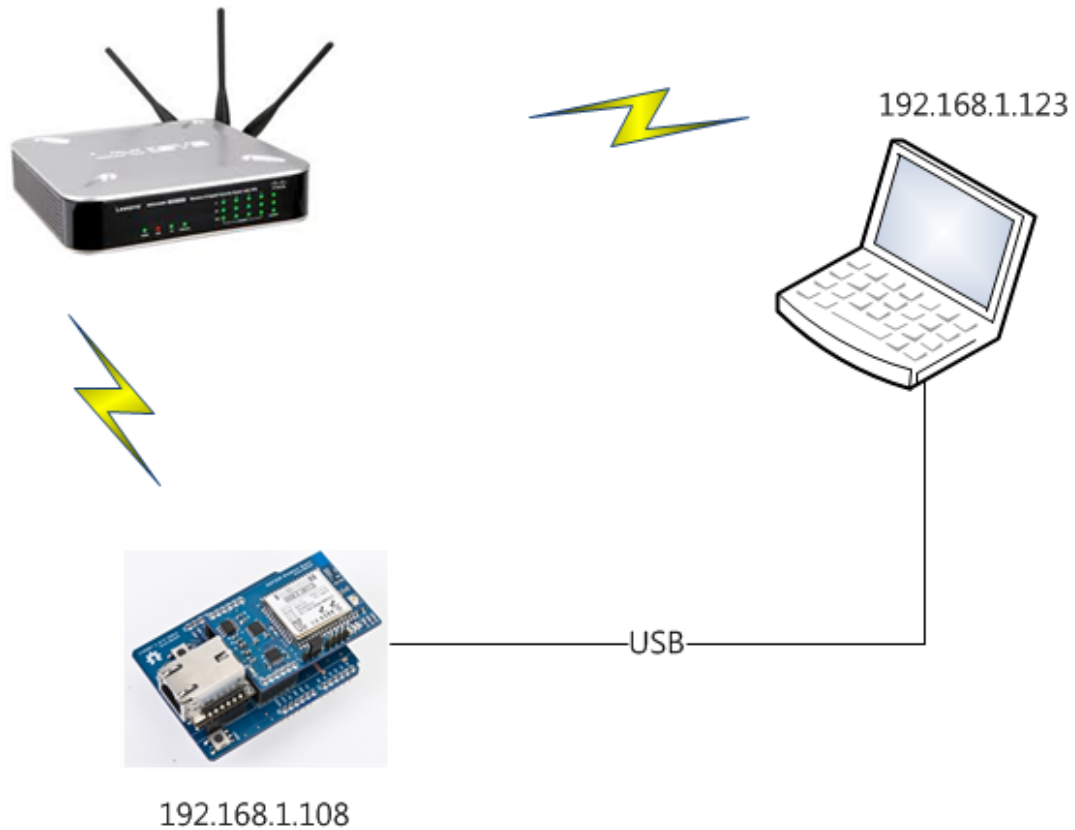
c) Hardware description



H/W description	
a	WizFi210 Factory Reset button
b	Power LED
c	Reset button
d	Power LED of WizFi210
e	Pin header: Select Run mode or F/W update mode of WizFi210
f	Pin header : UART interface of WizFi210
g	LEDs: Indicate the operation of WizFi210
h	Antenna

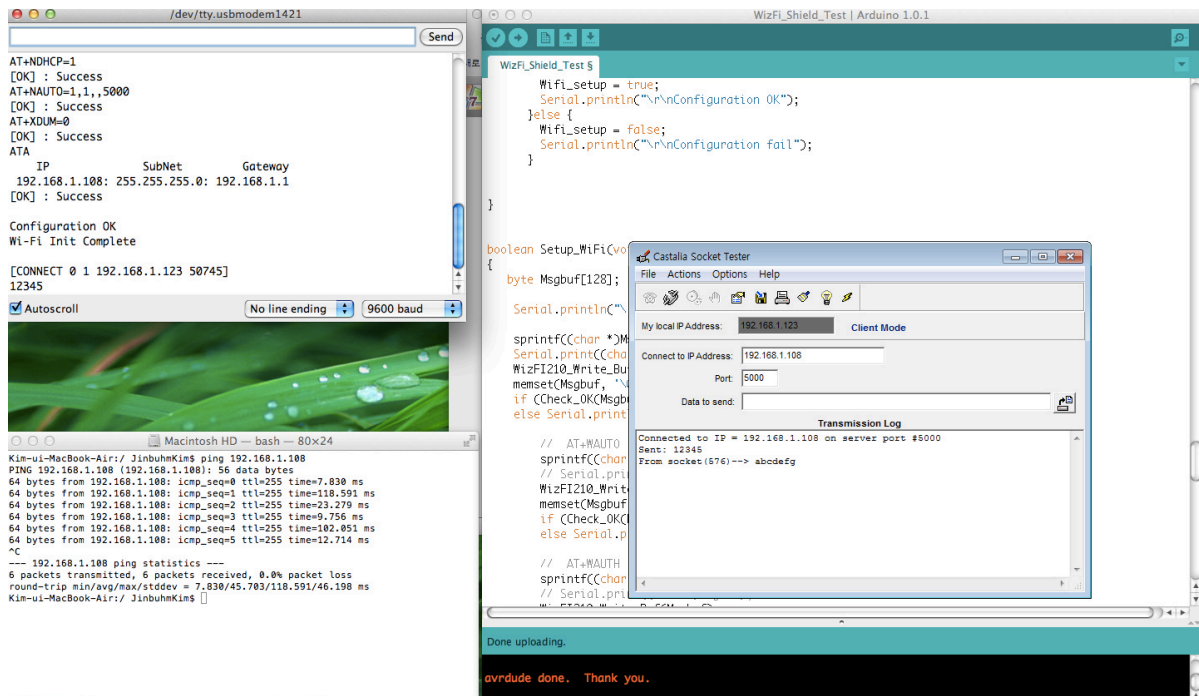
2. How to test?

a) Test environments



- Download the source code "WizFi_Shield_Test.ino" from https://github.com/Wiznet/Arduino_WiFi_Shield and open it with Arduino IDE.
- You have to change the SSID & Wi-Fi password according to your Wi-Fi router.

```
#define SSID      "WIZnetCisco"    // SSID of your AP
#define WPA_PASS  "0557564860"    // WPA Password
```
- WizFi Shield gets the IP address using DHCP and works as TCP server.
- Laptop connects to it. After the connection is established, the data between the laptop and WizFi shield is transparent.



3. Reference.

- Arduino source code & schematics can be download from Wiznet Github https://github.com/Wiznet/Arduino_WiFi_Shield
- WizFi210 datasheet
- Wiz820io datasheet