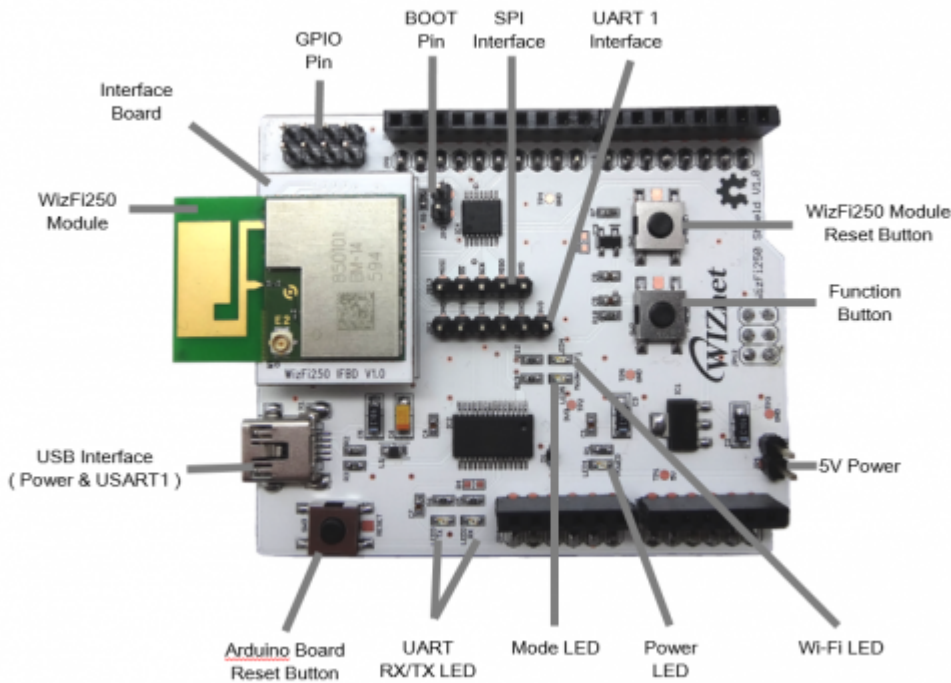


WizFi250 Quick Start Guide

WizFi250 Evaluation Board

The WizFi250 EVB is the evaluation board for testing WizFi250 and prototyping development. WizFi250 EVB is composed of a WizFi250 evaluation board and WizFi250 module.

Feature Identification



Button Description

WizFi250 Reset	Through this button, user can restart WizFi250 module.
Function	Through the function button, user can enter specific mode without AT Command. ♦ Factory Recovery : When doing Boot or Reset, pushing button. ♦ AP Mode : When module is working, pushing it once. ♦ Factory Default : When module is working, pushing it thrice.
Arduino Board Reset	Through the this button, user can restart Arduino board.

LED Description

UART RX/TX	Indicate UART RX/TX Status
Power LED	Indicate Power On/Off of WizFi250
Mode LED	Indicate Data/Command Mode ♦ LOW(ON) : Data Mode ♦ HIGH(OFF) : Command Mode

Wi-Fi LED	Indicate Wi-Fi Association ◆ LOW(ON) : Wi-Fi is associated ◆ HIGH(OFF) : Wi-Fi is not associated
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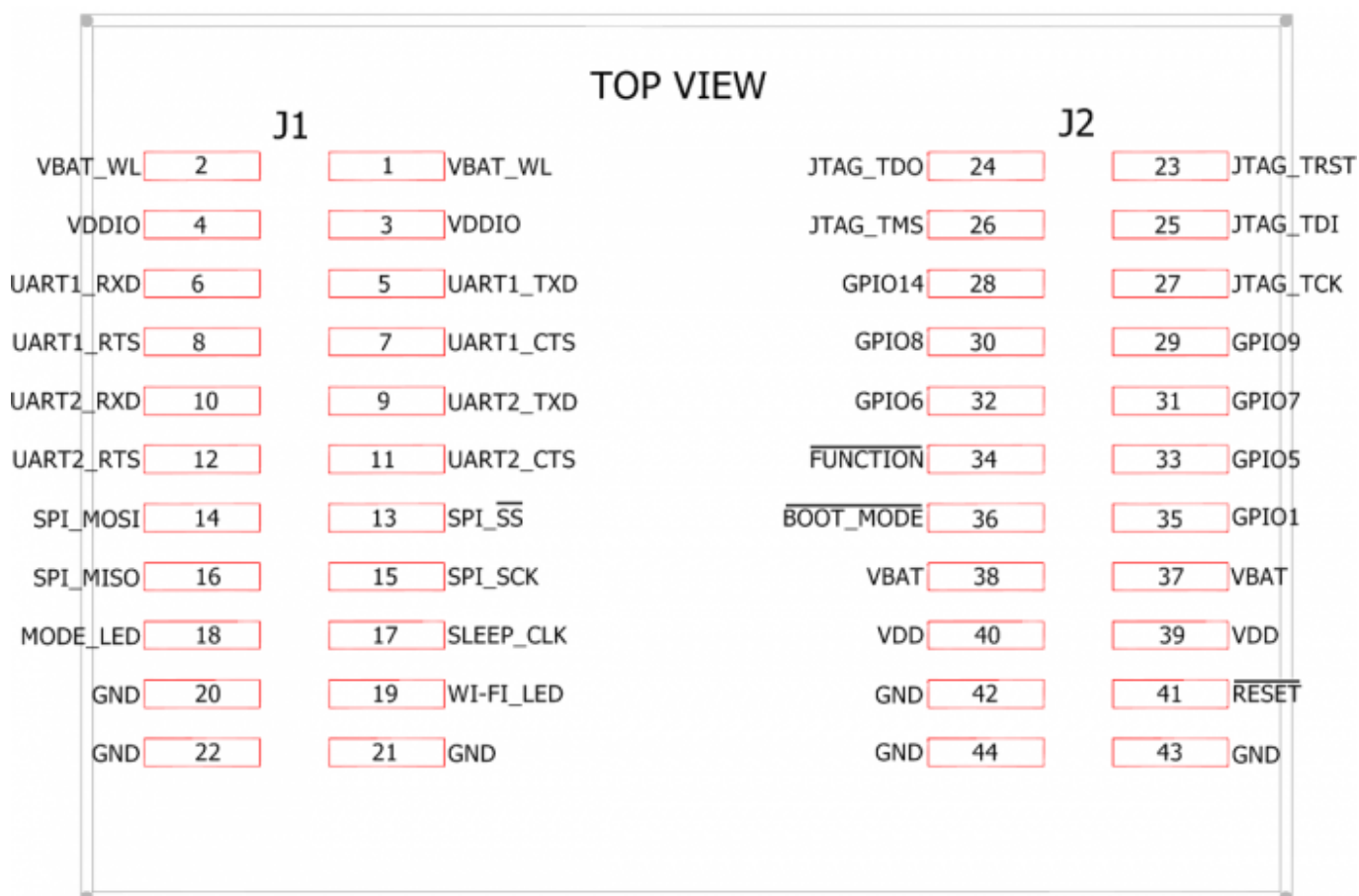
Pin Description

BOOT	Enter into boot mode ◆ SHORT : Start as boot mode ◆ OPEN : Start as application mode
5V Power	If user doesn't want to use USB Interface, user can use this pin
GPIO Pin	Through this pin, user can use GPIO signal

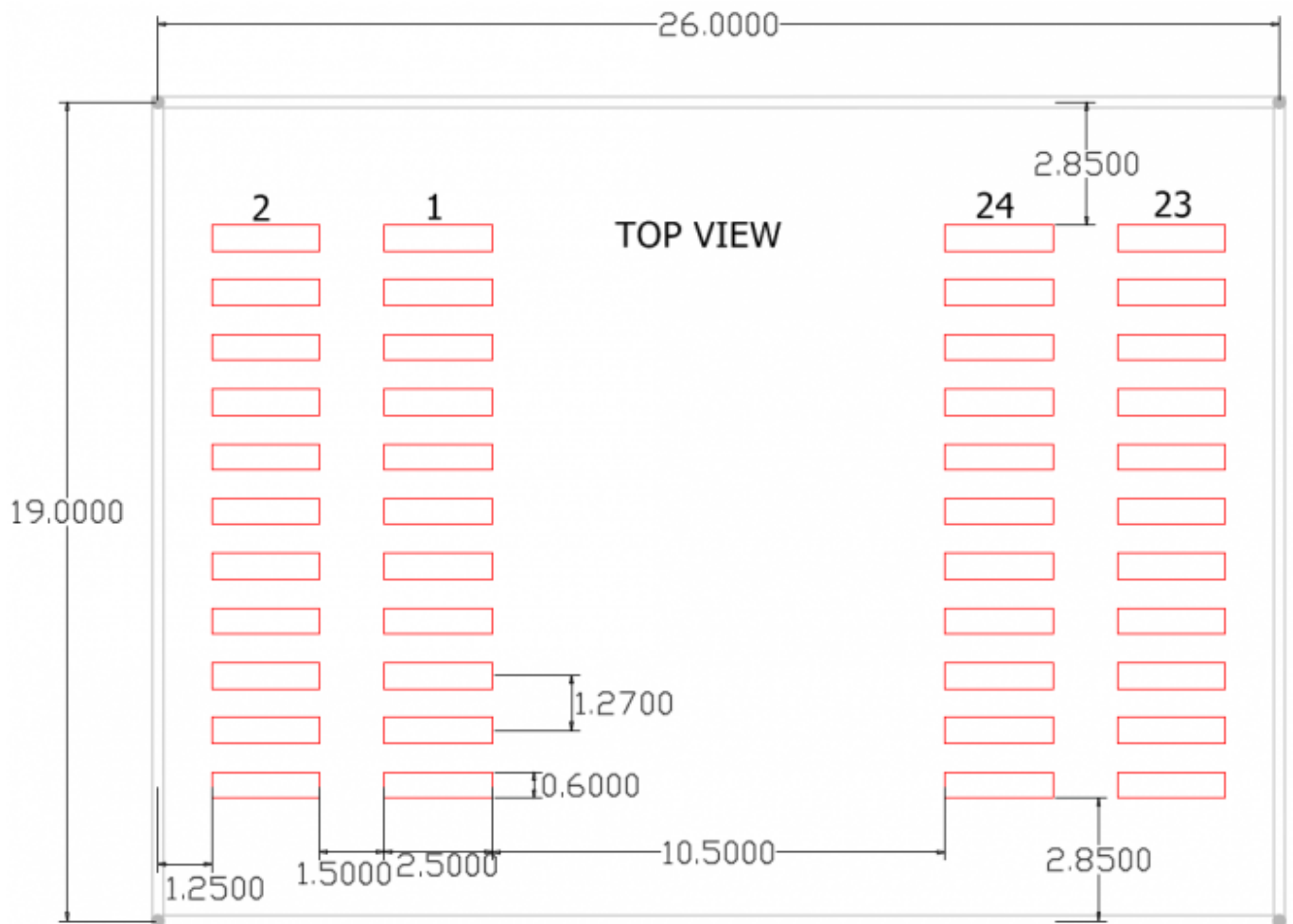
Interface Description

UART1 Interface	If user doesn't want to use USB Interface, user can use it. Default serial information is same to USB Interface.
SPI Interface	Through this pins, user can control SPI interface.
USB Interface	Through this interface, user can use power & serial interface Default serial information is as follows: ◆ Baud rate : 115200 ◆ Data rate : 8 ◆ Stop bits : 1 ◆ Parity : None ◆ Flow control : None

Interface Board PIN Map



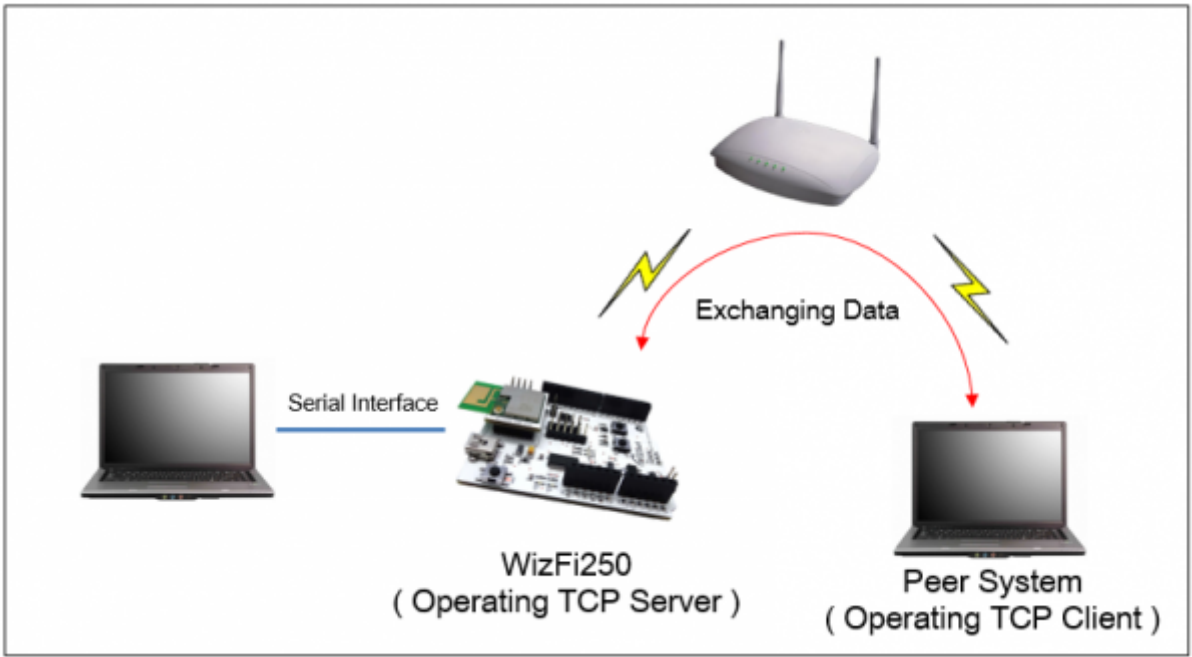
Interface Board Dimension



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Start Serial to Wi-Fi

This chapter explains how to set WizFi250 in order to exchange data with peer system. This picture is environment for using Serial to Wi-Fi example. In this example, WizFi250 is set to the TCP server and peer system is set to the TCP client. And then we exchange data between WizFi250 and peer system.



Using Function Button & Web Server Interface

This section explains how to set WizFi250 using web server in order to use serial to Wi-Fi application. (If you use function button, you can launch web server easily.)
Procedure for setting serial to Wi-Fi is as below.

- 1. Press the "Function Button" one time in order to run AP mode and launch the web server. If WizFi250 is changed to AP mode successfully, Wi-Fi LED will be on and you can see WizFi250's SSID by your PC

Default information of WizFi250 AP Mode	
SSID	WizFi250_AP_0008DCXXXXXX
Security	None
IP Address	192.168.12.1
Gateway Address	192.168.12.1

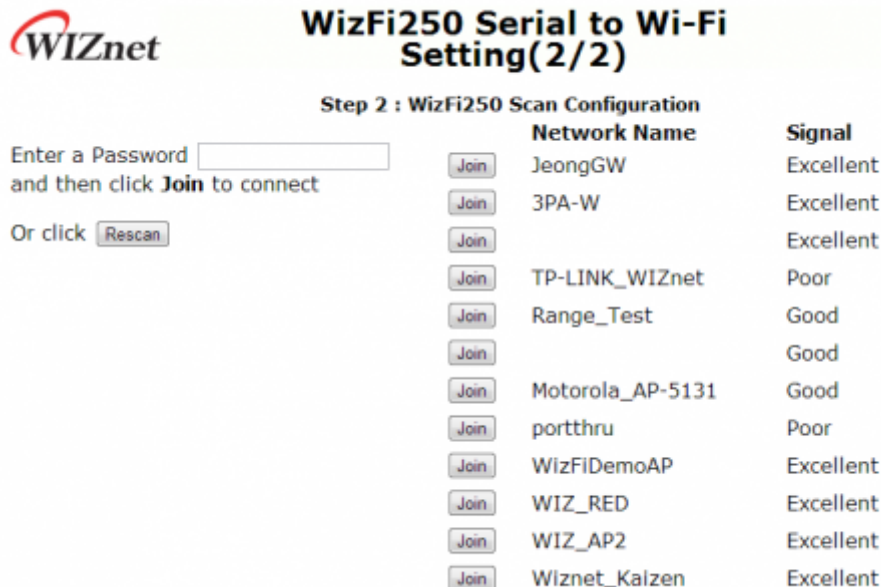
- 2. Connect to WizFi250's SSID and then input WizFi250's IP address or URL (wizfi250.wiznet.com) in web browser



- 3. If you select “S2W Setting & Scan Network” menu, you can see web page as below. If WizFi250 is set successfully, you can see success message right picture. And then if you select <Next_Step> button, you can move next page.



- 4. Enter a password and then select “Join” button which you want. And then you can see “Device Started. Web server and access point stopped. See UART for further information.” message in web browser.



- 5. WizFi250 will be associated to AP which you select and you can use TCP server in WizFi250. This picture is serial message when WizFi250 is set successfully.

```

WizFi250 Version 0.0.2.1 (WIZnet Co.Ltd)
Joining : WizFiDemoAP
Successfully joined : WizFiDemoAP

[Link-Up Event]
IP Addr   : 192.168.3.104
Gateway   : 192.168.3.1
    
```

Using Serial Command

This section explains method how to connect to AP using serial command. If user inputs these commands, WizFi250 will be connect to AP by DHCP and run TCP server. In this example, Information of AP which you want to connect is as below. (SSID : WizFiDemoAP, Security : WPA2, Key : 12345678)

```

AT                                     (Sent AT command followed 0x0d)
[OK]                                   (Response which means executed successfully)

AT+WSET=0,WizFiDemoAP,,6             (AT command setting WiFi association
information)
[OK]

AT+WSEC=0,WPA2,12345678              (AT command setting WiFi security)
[OK]

AT+WNET=1 (AT command setting the network information for WizFi250 itself
using DHCP)
[OK]

AT+WJOIN                               (AT command executing AP association)
Joining : WizFiDemoAP
    
```

Successfully joined : WizFiDemoAP

[Link-Up Event]

IP Addr : 192.168.3.104

Gateway : 192.168.3.1

[OK]

AT+SCON=S0,TSN, , ,5000,1 (AT command listening with a TCP Server Socket)

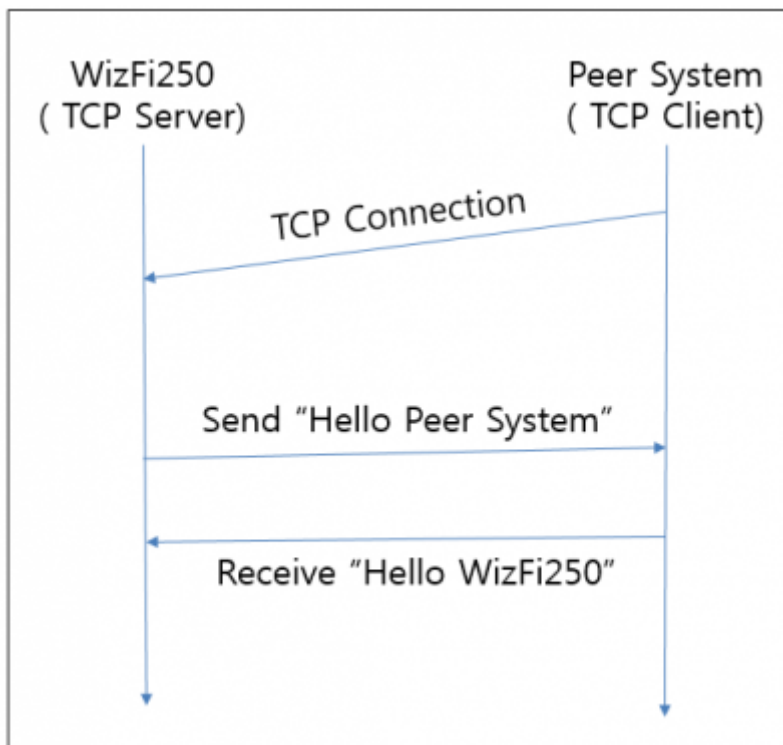
[OK]

[CONNECT 0] (When TCP connection is done, you can show this message)

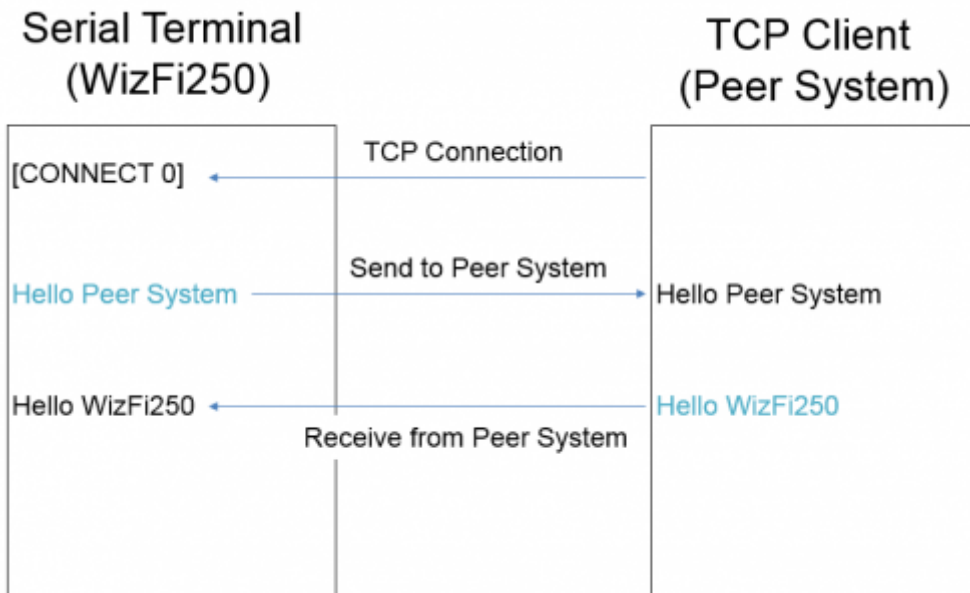
Exchanging data with a peer system

This section explains method how to exchange data between WizFi250 and Peer System.

This picture is described about data flow in this example.



After TCP connection is done, If WizFi250 receive serial data, serial data will be send to peer system immediatly and WizFi250 can receive data from peer system.



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