iWSN-2200-E   Quick Start

What's in box

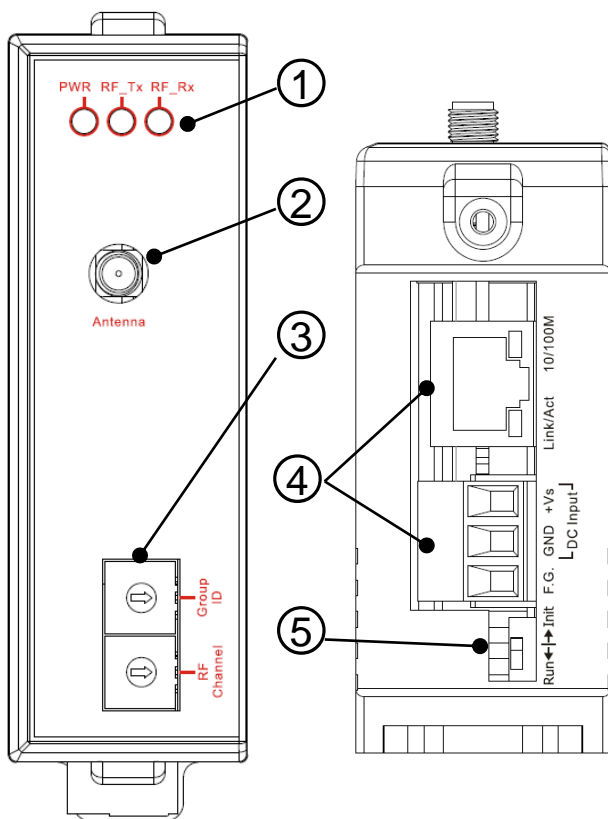Without "Quick Start", The package includes the following items:
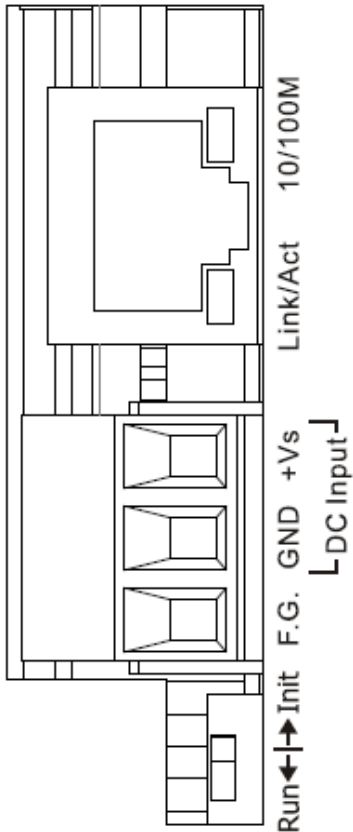

**iWSN-2200-E
(includes antenna)**

**Screw Driver
(1C016)**

1 Appearance

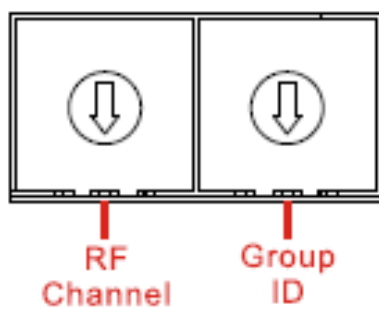| Number	Instructions
1	LED indicators
2	Antenna connector (type RP-SMA)
3	Rotary switch of Communication parameter setting
4	Terminal and Ethernet port (RJ-45 interface)
5	DIP switch of operation mode

2 Pin assignments

Number	Name	Instructions
3	+Vs	+10V~+30VDC
2	GND	Ground
1	F.G.	Shield ground

Switch	Instructions
Init	Initial mode
Run	Run mode

3 Communication Parameter

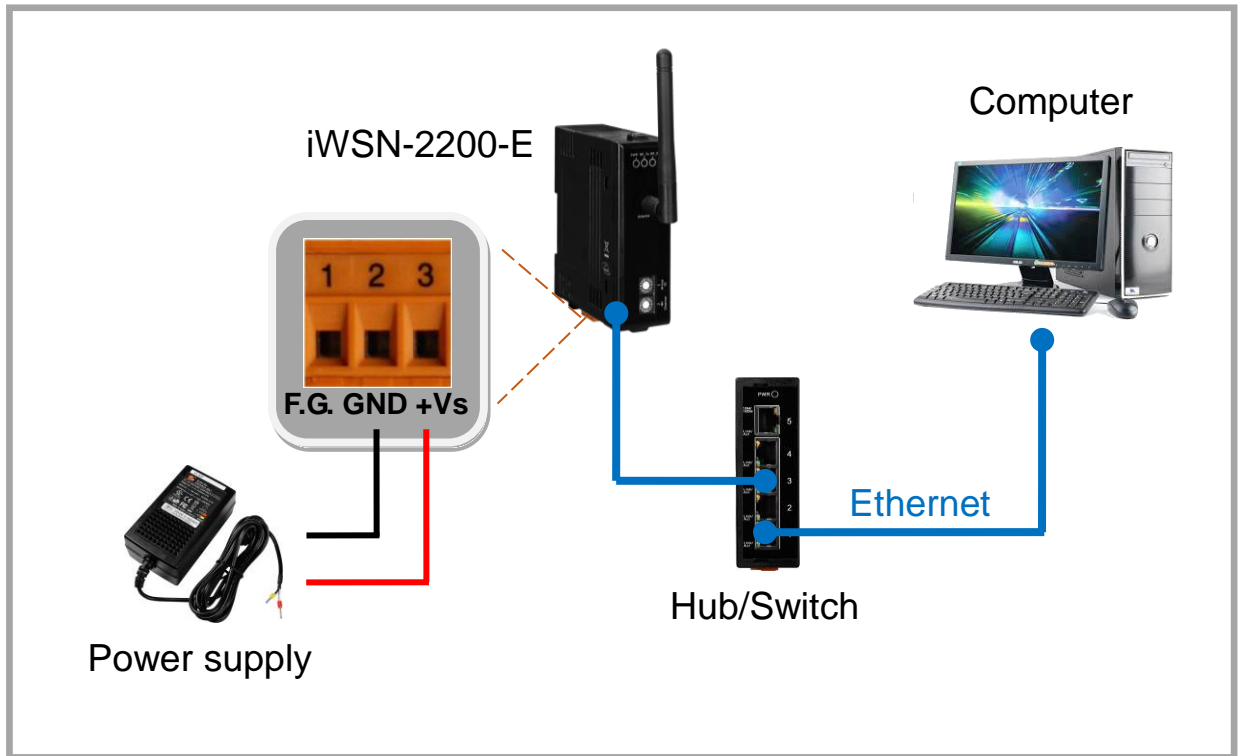| Rotary switch	Instructions
RF Channel	0 ~ F = ch 0 ~ ch F
Group ID	0 ~ 7 = GID 0 ~ GID 7 8 ~ F = Reserved, fix GID 0

4 LED indicators

The module provides three LED indicators, including power, wireless transmission and wireless reception status. The table below will show the LED status indicator.

Indicator	Status	Instructions
PWR	ON	Power on
	OFF	Power off
RF_Tx	ON	Wireless data has been transmitted
	OFF	No data be transmitted
RF_Rx	ON	Wireless data has been received
	OFF	No data be received

5 Connecting power and computer to module

A. Confirm the Ethernet setting of your computer is correct and be worked. Confirm both firewalls of Windows and Anti-virus has closed or correct setting in your computer to avoid **"Search Servers"** function in chapter 6 can't search to iWSN-2200-E. (Please conform to your administrator)

B. Connecting iWSN-2200-E and computer to same Hub/Switch or same sub network.

C. Confirm the Init/Run switch of module to Run position, and adjust the RF channel and Group ID switch to same with iWSN-1110X series.
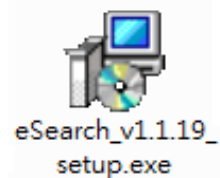
D. Supplying power (+10~+30VDC) to iWSN-2200-E.

Computer

iWSN-2200-E

F.G. GND +Vs

Ethernet

Hub/Switch

Power supply

6   **Configuring the correct network parameter**

There are two methods to configure network parameter, the user can use eSearch Utility or browser as below.
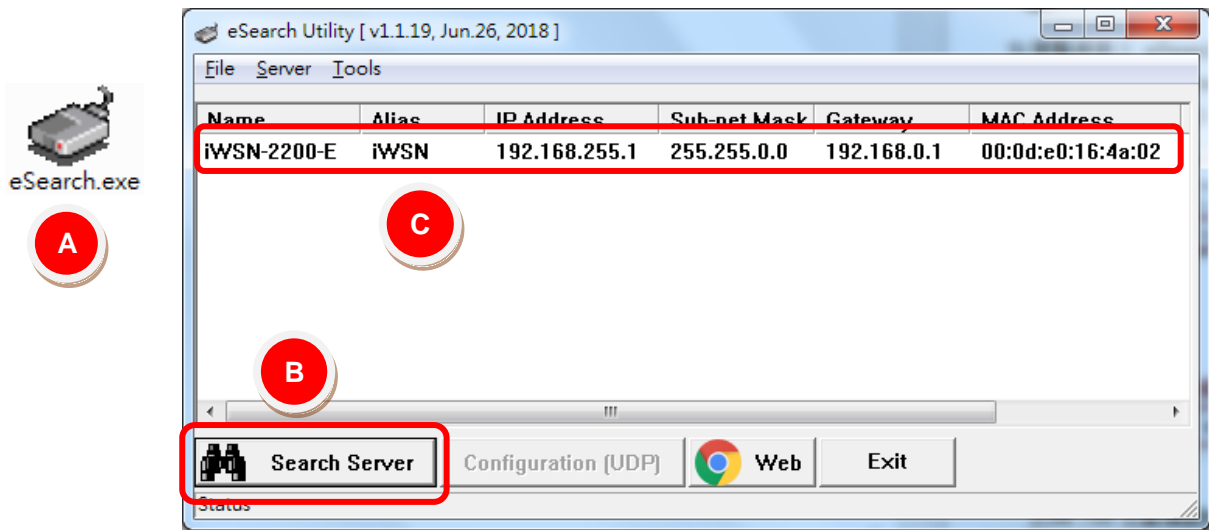
一、   **Using eSearch Utility software:**

   A. Installing eSearch Utility, the user can download from ICP DAS website as below link:

eSearch_v1.1.19_setup.exe

http://ftp.icpdas.com/pub/cd/tinymodules/napdos/software/esearch/

   B. Double click the eSearch Utility shortcut icon in desktop.
   C. Click **"eSearch Servers"** button to search your iWSN-2200-E.
   D. Double click your iWSN-2200-E to open **"Configure Server (UDP)"** configuration dialog.
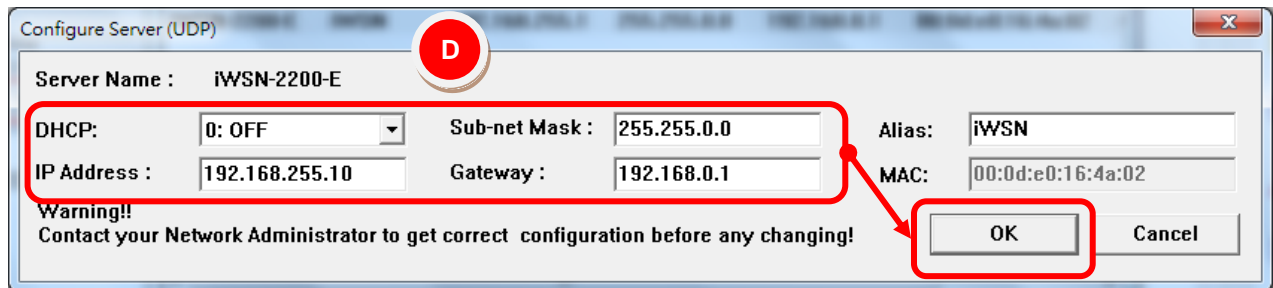
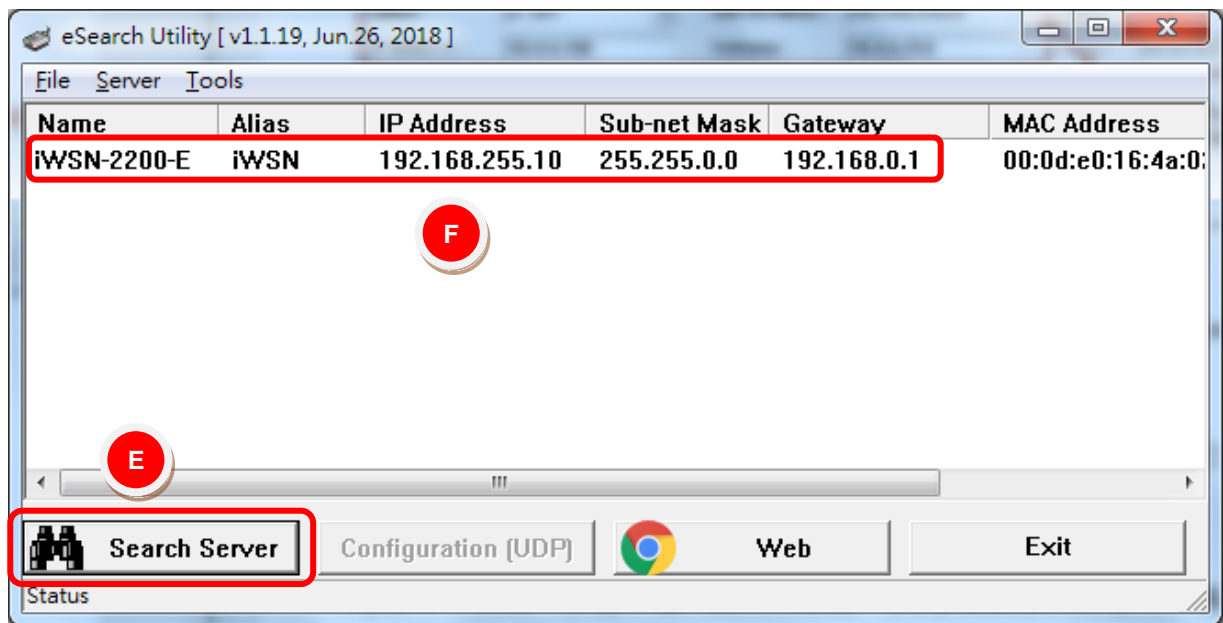The factory default values of iWSN-2200-E as below table:

IP Address	192.168.255.1
Sub-net Mask	255.255.0.0
Gateway	192.168.0.1

E. Contacting your network administrator, and get correct network configuration (ex: IP/Mask/Gateway). Key in the network configuration (IP/Mask/Gateway), and then click **"OK"** button.

⚠ Note: iWSN-2200-E will use new setting after 2 seconds.

F. After 2 seconds, click **"eSearch Servers"** to search iWSN-2200-E, and confirm the network configuration of previous step whether be correct set.

二、 Using browser

Note: If your using browser is Internet Explorer, in order to ensure the web server of iWSN-2200-E can display properly, please be sure to close the IE cache first, the step as below:
(If your using browser isn't Internet Explorer, please skip these steps.)

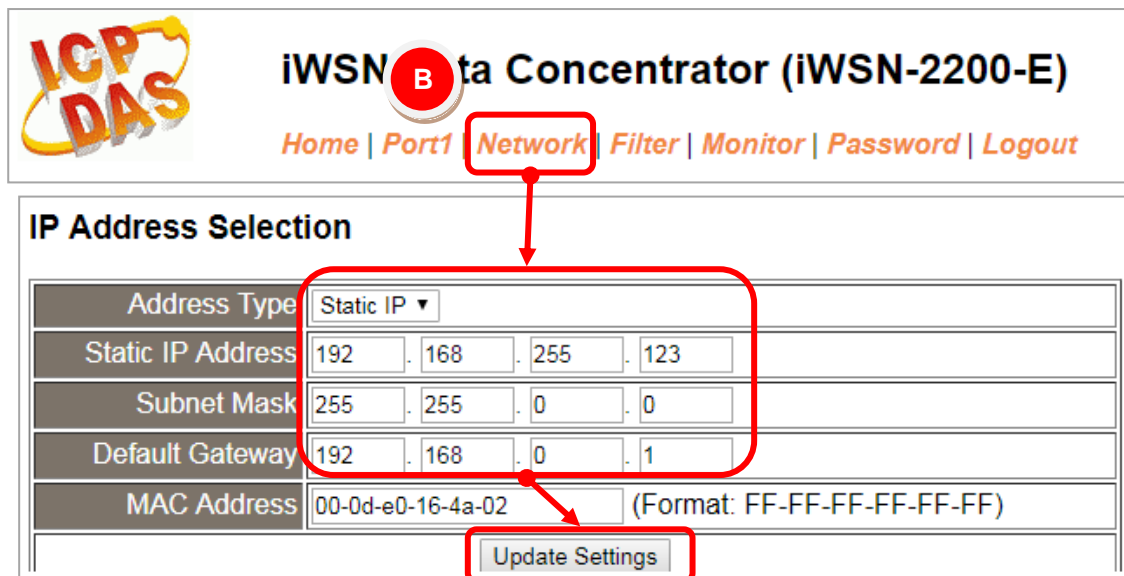**Step1** : In the IE browser menu, click **"Tools (T)"** → **"Internet Options (O)"**.

Step2 : After entry the option box, click **"General"** tab, and then click **"Settings (S)"** button in the browsing history record to entry network data setting box.

Step3 : In the **"Temporary Internet Files"** label, click **"Every visit to the page (E)"**, and then click **"OK"** button to finish setting.
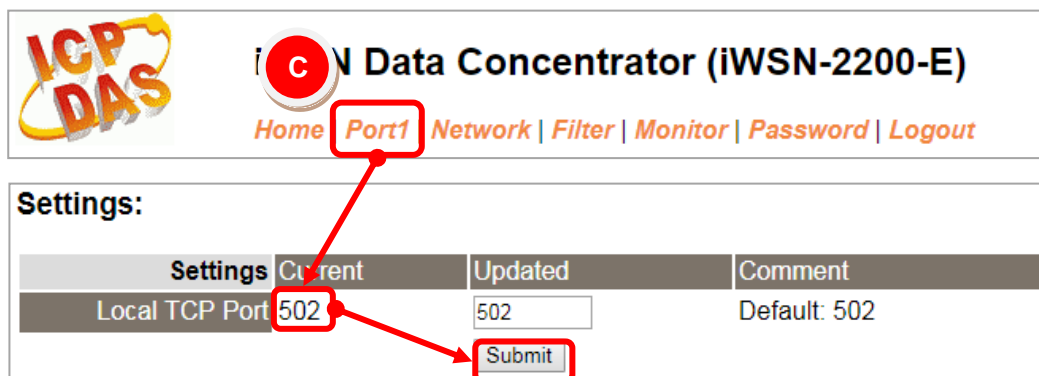
A. After key in password in Login password field, click **"Submit"** button.

B. After click **"Network"** item, the web will display IP Address Selection page. Key in network configurations (IP/Mask/Gateway), and click **"Update Setting"** button.
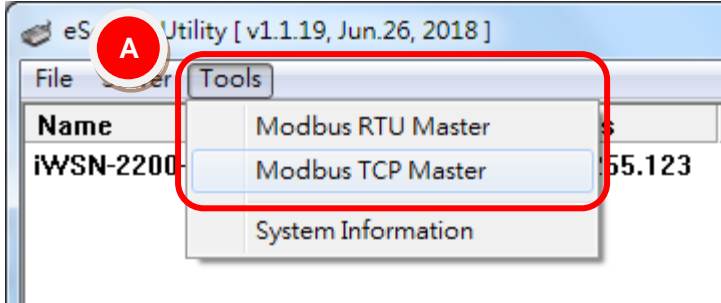

C. After click **"Port1"** item, the web will display Setting page. Key in Port number, and click **"Submit"** button.

7 Self-Test

A. The eSearch Utility in chapter 6 have supply a test software, the user can click **"Tools"** → **"Modbus TCP Master"** to open Modbus TCP Master Utility.

B. Key in the IP address of iWSN-2200-E in Modbus TCP Master, and then click **"Connect"** button to connect iWSN-2200-E.

C. Key in Modbus command such as: 1 2 0 0 0 6 1 3 0 1 0 1 in command field, and then click **"Send command"** button.

D. If the response messages such as 01 03 02 08 98 is correct, and the 08 98 is mean as 0x0898 (Hexadecimal) = 2200 (Decimal) that mean test successfully.