

## Packing List

In addition to this guide, the package includes the following items:



iWSN-200E  
(included antenna)



Screw Driver

## Resources

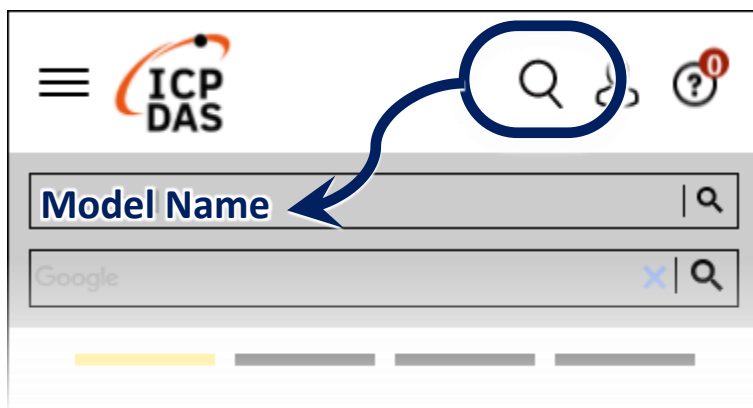
### Technical Support

[service@icpdas.com](mailto:service@icpdas.com)

[www.icpdas.com](http://www.icpdas.com)

How to search for drivers, manuals and spec information on ICP DAS website.

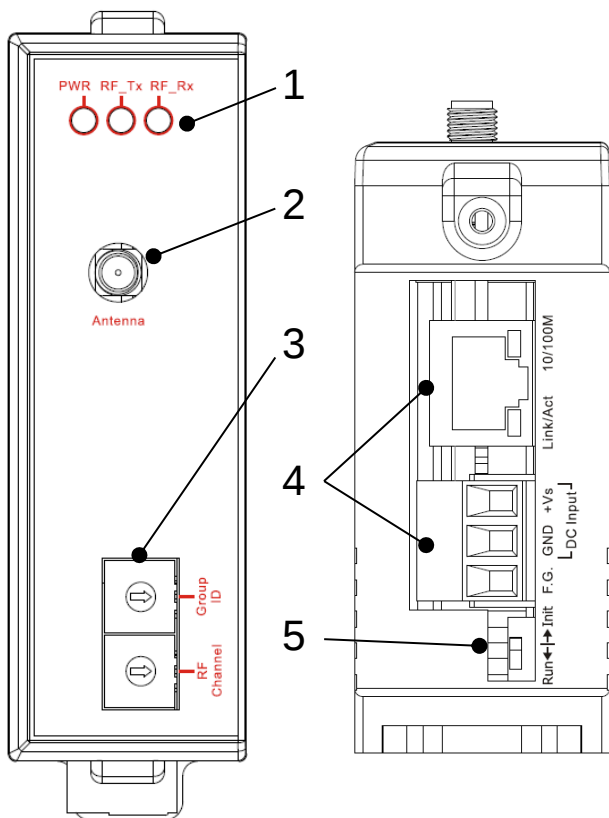
- For Mobile Web



- For Desktop Web



# 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                       |
| 5      | DIP switch of operation mode                     |

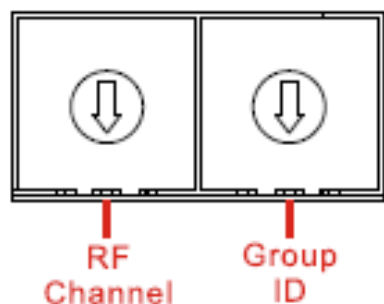
# 2. Pin Assignments



| Number | Name            | Instructions                       |
|--------|-----------------|------------------------------------|
| 4      | RJ-45 interface | Ethernet port and supply PoE power |
| 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<br>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.

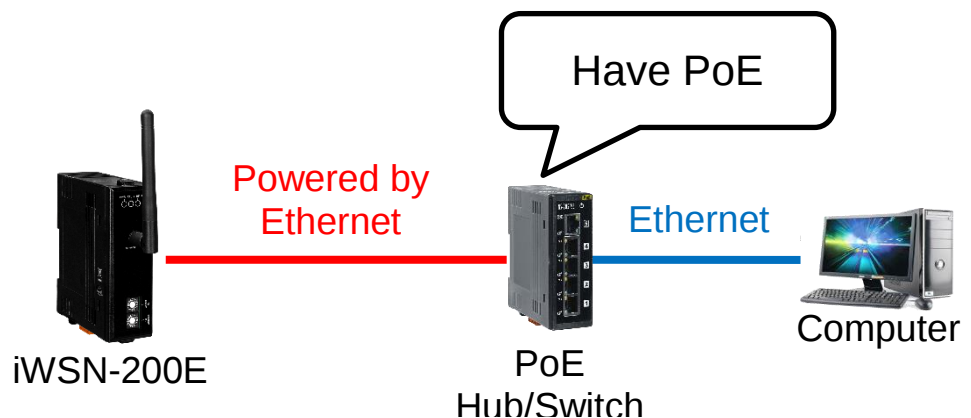
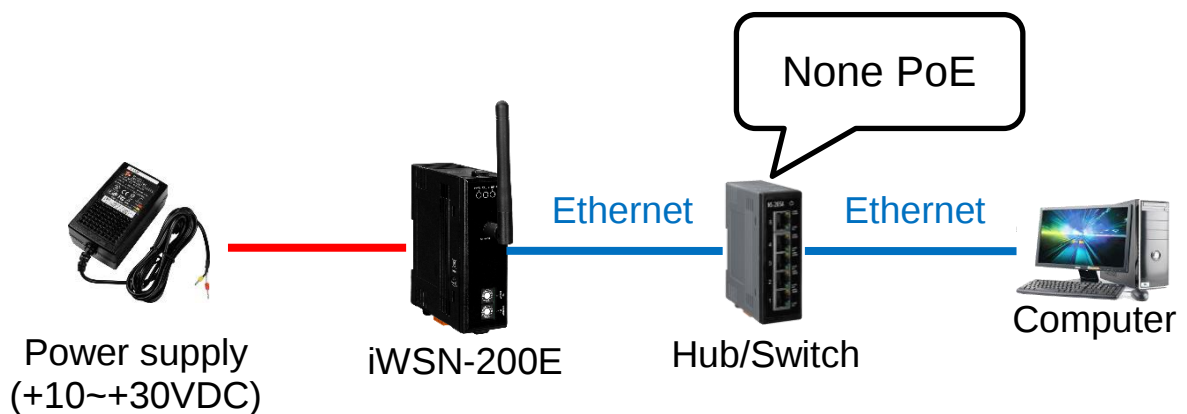
| Indicator                    |       | Color  | Status   | Instructions                       |
|------------------------------|-------|--------|----------|------------------------------------|
| Power status                 | PWR   | Red    | ON       | Power on                           |
|                              |       |        | OFF      | Power off                          |
| Wireless transmission status | RF_Tx | Green  | Flashing | Wireless data has been transmitted |
|                              |       |        | OFF      | No data be transmitted             |
| Wireless reception status    | RF_Rx | Yellow | Flashing | Wireless data has been received    |
|                              |       |        | OFF      | No data be received                |

In addition, the LED indicators of RJ-45 interface in Ethernet as below table:

| Indicator | Color  | Status   | Instructions                      |
|-----------|--------|----------|-----------------------------------|
| Link/Act  | Green  | Flashing | Communicating.                    |
| 10/100M   | Yellow | ON       | 100 Mbps.                         |
|           |        | OFF      | 10 Mbps or Ethernet disconnected. |

## 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 antivirus software has closed or correct setting in your computer to avoid “**Search Server**” function in chapter 6 can’t search to iWSN-200E. (Please conform to your administrator)
- B. Connecting iWSN-200E and computer to same Hub/Switch or same sub network, and confirm the Init/Run switch of module to Run position, and then adjust rotary switch to let RF channel and Group ID same with iWSN sensors.
- C. Supplying power (+10~+30VDC) or powered by PoE to iWSN-200E.

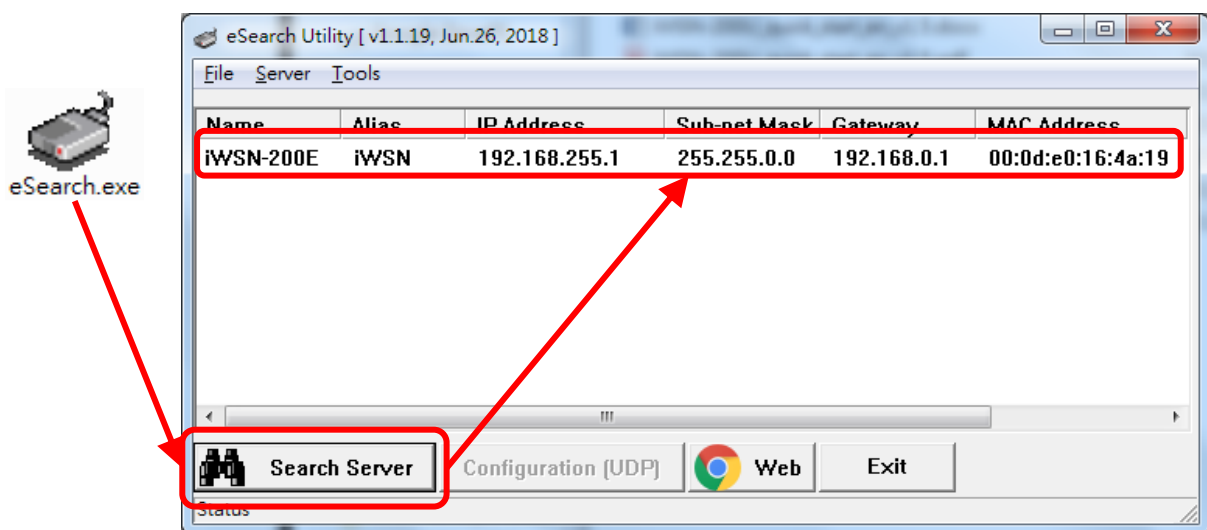


## 6. Configuring the correct network parameter

There are two methods to configure network parameter, the user can use eSearch Utility or browser to configure as below.

### — 、 Using eSearch Utility software :

- A. Installing eSearch Utility, the user can download from ICP DAS website as below link:  
<http://www.icpdas.com/en/download/index.php?nation=US&kind1=&model=&kw=esearch>
- B. Double click the eSearch Utility shortcut icon in desktop.
- C. Click “**Search Server**” button to search your iWSN-200E.
- D. Double click your iWSN-200E to open “**Configure Server (UDP)**” configuration dialog.

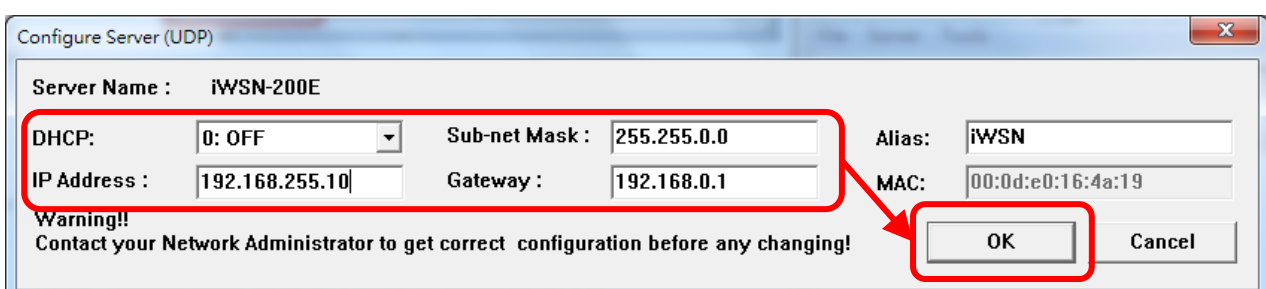


The factory default values of iWSN-200E as below table:

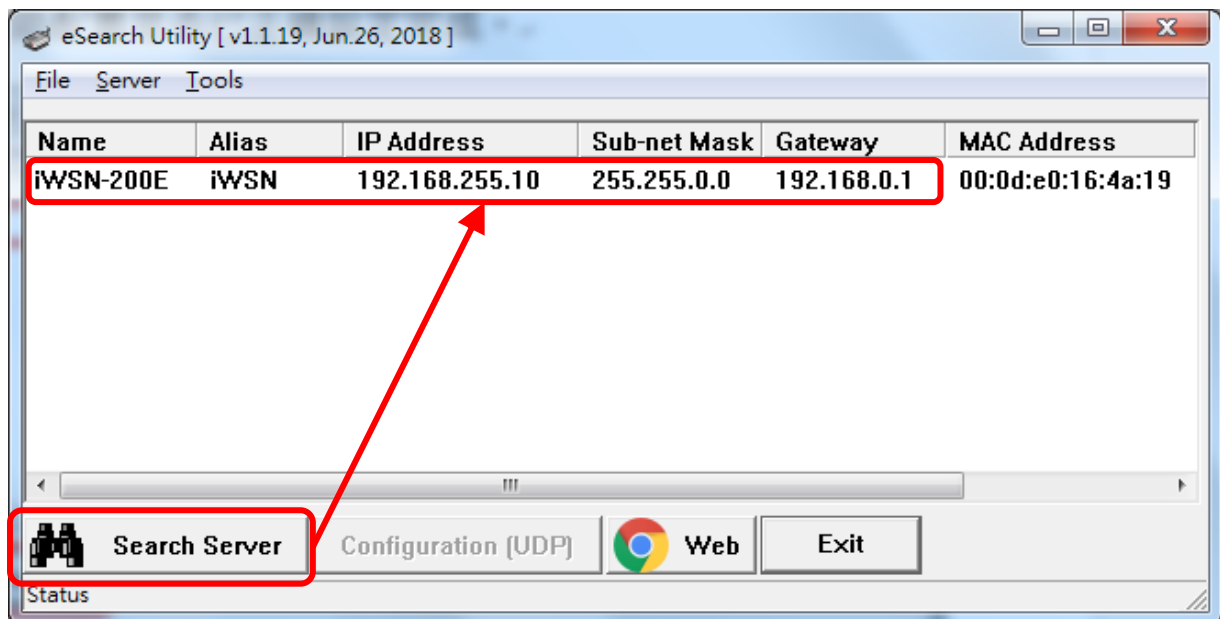
|              |               |
|--------------|---------------|
| IP Address   | 192.168.255.1 |
| Sub-net Mask | 255.255.0.0   |
| Gateway      | 192.168.0.1   |

- E. Key in the network configuration (IP/Mask/Gateway), and then click “**OK**” button.

**Note:** iWSN-200E will use new setting after 2 seconds.



- F. After 2 seconds, click “**Search Server**” to search iWSN-200E, 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-200E 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.

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The system is logged on.  
To enter the web configuration, please key in the following field.

Login password:

Default password :  
admin

- 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.

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**IP Address Selection**

|                   |                                               |     |     |     |
|-------------------|-----------------------------------------------|-----|-----|-----|
| Address Type      | Static IP ▾                                   |     |     |     |
| Static IP Address | 192                                           | 168 | 255 | 123 |
| Subnet Mask       | 255                                           | 255 | 0   | 0   |
| Default Gateway   | 192                                           | 168 | 0   | 1   |
| MAC Address       | 00-0d-e0-16-4a-02 (Format: FF-FF-FF-FF-FF-FF) |     |     |     |

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

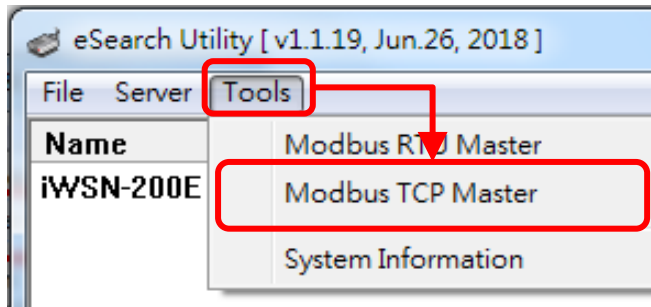
**iWSN Data Concentrator**  
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**Settings:**

| Settings       | Current | Updated | Comment      |
|----------------|---------|---------|--------------|
| Local TCP Port | 502     | 502     | Default: 502 |

## 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-200E in Modbus TCP Master, and then click "**Connect**" button to connect iWSN-200E.
- C. Key in Modbus command such as: 1 2 0 0 0 6 1 4 0 1 0 1 in command field, and then click "**Send command**" button.
- D. If the response messages such as 01 04 02 00 03 is correct, and the 00 03 (0x0003, Hex) is the module code of iWSN-200E that mean test successfully.

