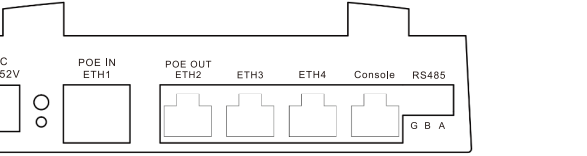


IOT-W306S

Quick Install Guide



I . Port Description



1. DC12-52V
2. Reset Button (Long press for 10 seconds required)
3. ETH1 Uplink PoE Input (Supports PoE power receiving complying with IEEE802.3af/at standards)
4. ETH2 Port (When the power supply is DC12V 2A or supports IEEE802.3at standard PoE48V input, it supports IEEE802.3af standard 48V PoE output)
5. ETH3, ETH4 LAN Port
6. Console Port
7. RS-485 Data Interface

LED Indicator Description:



1. PWR: Lights up steadily when the device is powered on normally.
2. WLAN: Blinking or steady on means the wireless function is normal; Off means wireless function failure.
3. ACT: Lights up steadily after the DTU establishes TCP connection.
4. ETH1–ETH4 Ports: The corresponding port indicator blink during data transmission and reception after a device is connected.
5. LINK: Lights up steadily when the device is successfully paired wirelessly; Off when not paired.

Note:1. Factory default is to be equipped with DC 12V 2A power supply, and the output power of ETH2 port is ≤15W.

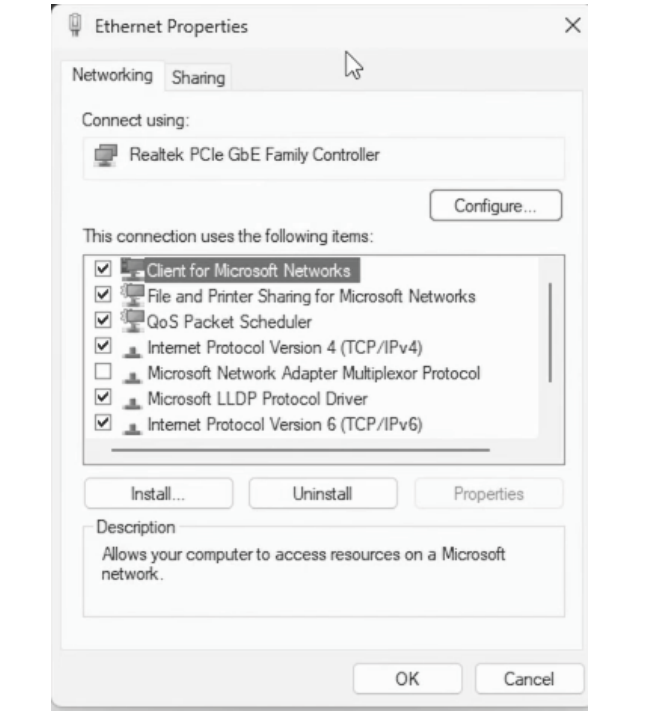
2.Connect the RS485 terminal interface to the corresponding GBA terminals of the sensor in a one-to-one manner: G to G, B to B, A to A. (The ground wire G can be left unconnected if some devices are not equipped with it.)

II . Device Web Management Interface

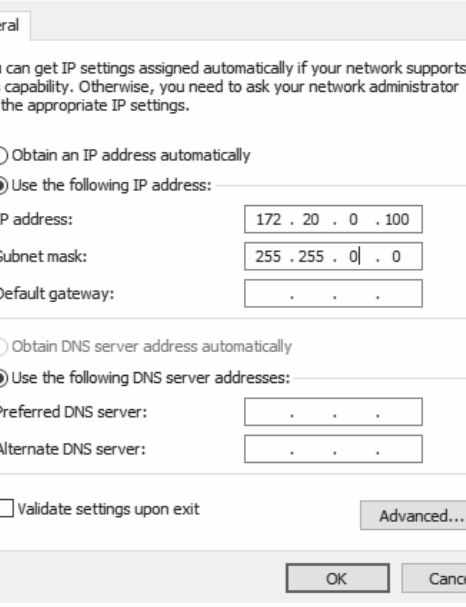
1.IP Address Setting

Set multiple local IP addresses for the computer according to the default IP address of the bridge: 172.20.X.X

Subnet Mask: 255.255.0.0



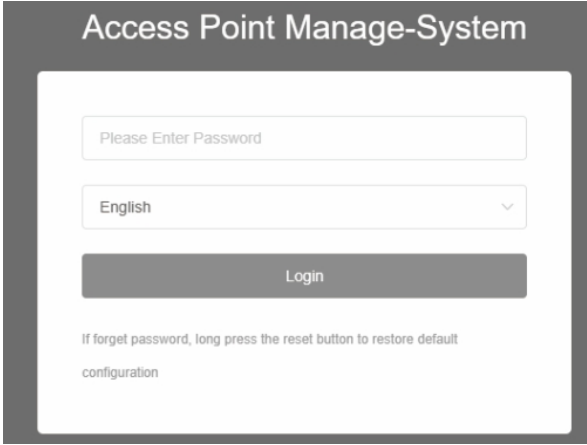
Internet Protocol Version 4 (TCP/IPv4) Properties



2.Access Point Manage-System Login

Enter the default IP address of the bridge in the browser to access the page; Google or Edge browser is recommended.

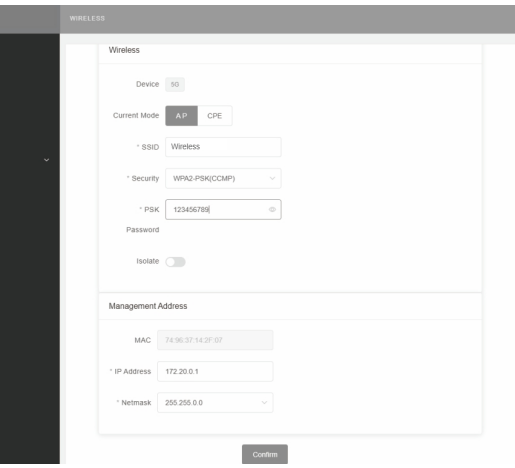
Default IP address of the bridge: 172.20.0.1



III . Wireless Configuration

Setting Steps for AP (Transmitter)

1.Select the working mode:AP(Transmitter)



2. Enter the wireless name/wireless password

(The default wireless name is Wireless/password 123456789. Modify the wireless name to distinguish bridge groups if multiple pairs of bridges are used.

Example1: Wireless Name: 111/Password: 123456789

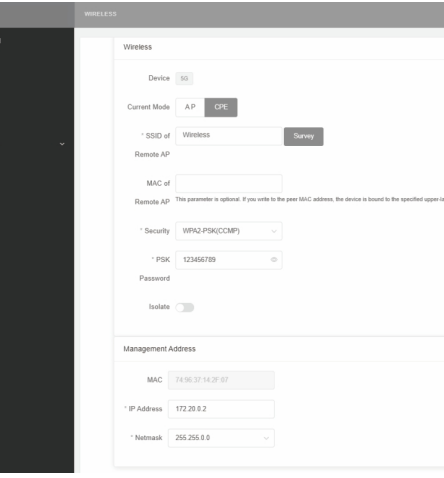
Example2: Wireless Name: 222/Password: 123456789

3.The default IP address of AP mode (Transmitter) is 172.20.0.1, which can be modified as needed.

4. Save the changes and complete the Settings.

The Setting Steps for CPE(Receiver) :

1. Select the working mode: CPE(Receiver)

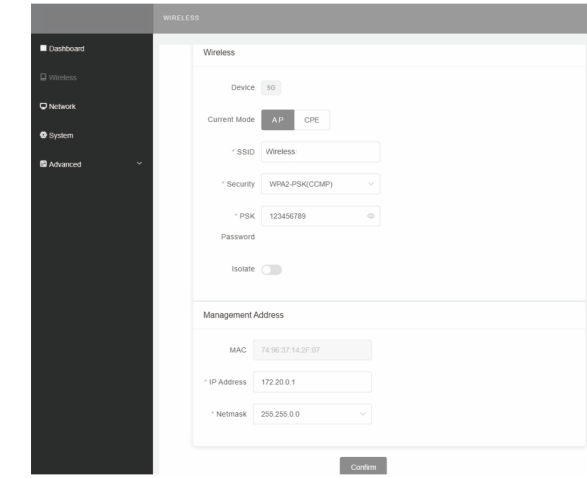


2.The SSID can be scanned, selected and paired by entering the password. The wireless name/wireless password can also be entered manually (The default wireless name is Wireless/password 123456789. Successful pairing will be achieved when the wireless name and password are consistent with those of the AP.)

3. The default IP address of CPE mode (Receiver) is 172.20.0.2, which can be modified as needed. (When the wireless bridge adopts point-to-multipoint networking, set one AP and multiple CPEs, and the management IP addresses of CPEs must not be duplicated with that of the AP and other CPEs. Example: CPE1 management IP: 172.20.0.2; CPE2 management IP: 172.20.0.3)

4. Save the changes and complete the Settings.

IV . Device WEB management page

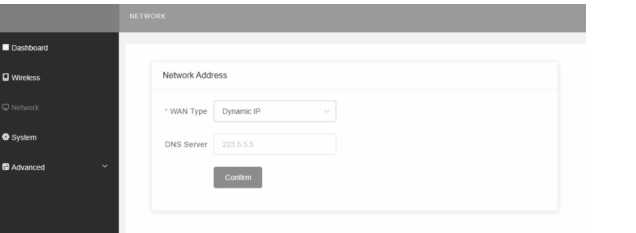


1. Working Mode: AP and CPE, AP is Transmitter, CPE is Receiver.
2. Wireless Name: Setting the name of the wireless network.
3. Encryption Method: Setting the encryption method.
4. Wireless Password: Setting the password of the wireless network.
5. Terminal Isolation: Enable/Disable terminal isolation.
6. Address Management: The IP address of the bridge can be changed.
7. Save Configuration: Click to save the current configuration of the web page.

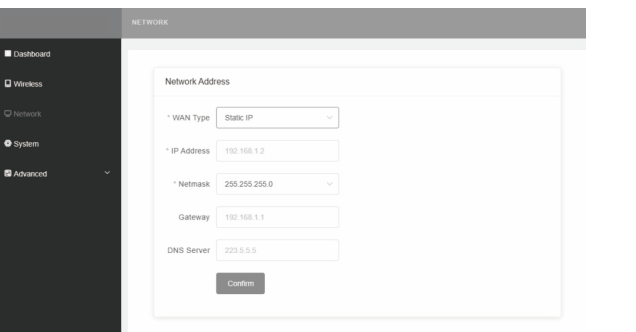
V. Network Configuration

Set the Internet access method

1. Dynamic Address: Automatically allocate IP addresses.



2. Static Address: Set the IP address, subnet mask, default gateway and DNS server.



VI. POE Setting

Enable/Disable the PoE output power supply of the bridge, which supports PoE output power supply complying with the standard



DTU Configuration

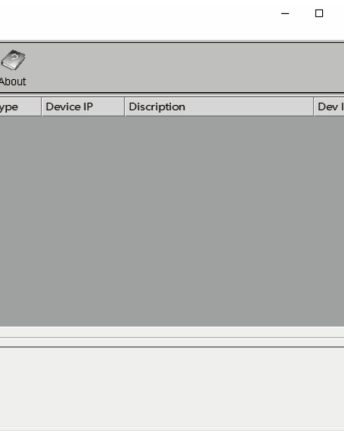
I. Open the Software



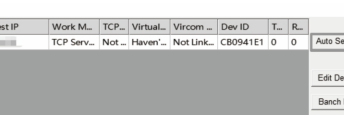
VirCom7.06_
ne.exe

II. Program Operations

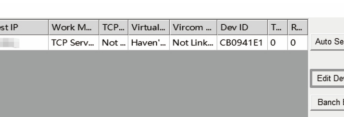
1. Click to select "Device"



2. Click Auto Search



3. Click to select the pop-up item and click Edit Device to open the device setting page



4. Network Settings and Serial Port Settings

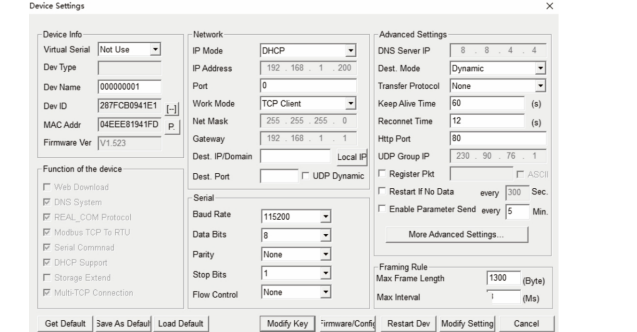
① Select DHCP for IP Mode

② Select TCP Client for Working Mode

③ Enter the server address in "Destination IP or Domain Name" (Fill in according to the actual address of the server)

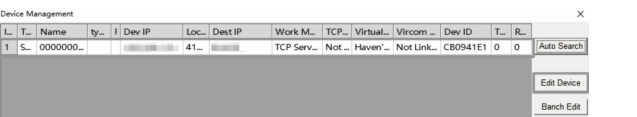
④ Enter the server port number in "Destination Port" (Fill in according to the actual port number)

⑤ Serial Port Settings - Select 115200 for Baud Rate

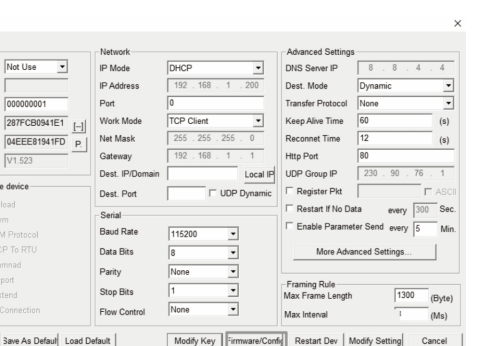


⑥ Click Modify Settings after completing the above settings

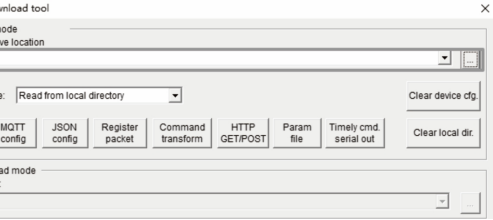
5. After the module restarts, click Auto Search, select the item and click Edit Device to open the device setting page



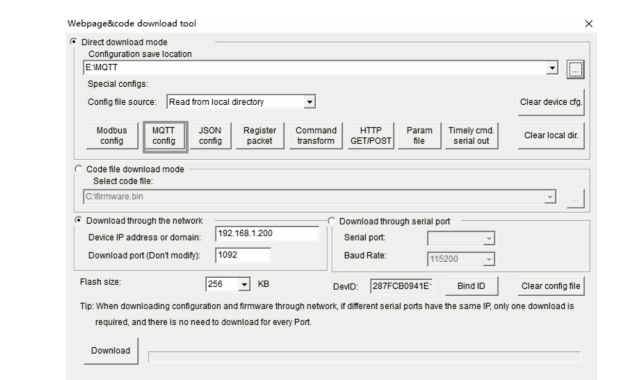
6. Click Firmware / Config



7. Select the folder storing the MQTT configuration file for "Root Directory of Local Configuration or Web Page"



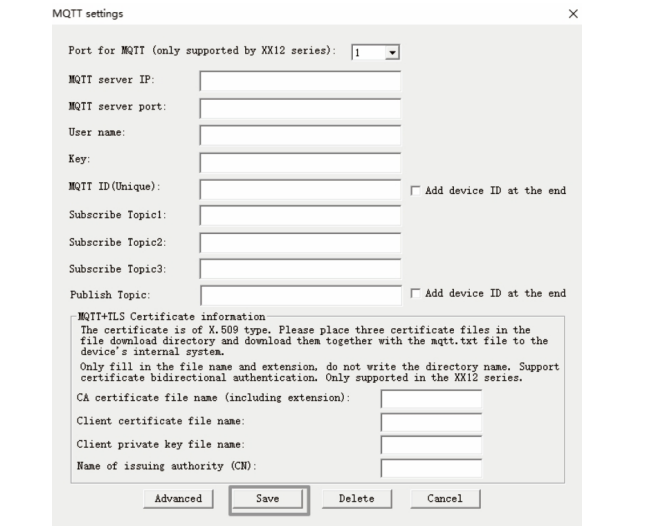
8. Click MQTT Config



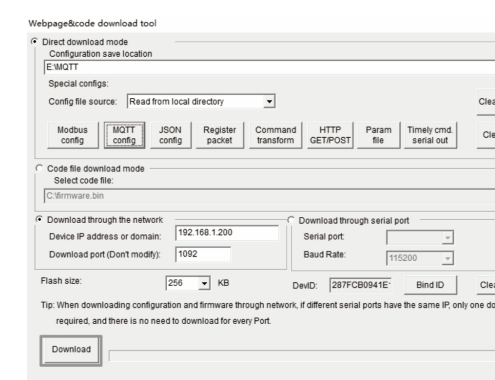
9. MQTT Connection Parameter Settings

① Fill in "MQTT server IP", "MQTT server Port", "User name", "Key", "MQTT ID", "Subscribe Topic" and "Publish Topic" according to the actual information of your own platform

② Click Save MQTT Settings after completing the above operations



10. Click Download to complete the configuration



FCC statement

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver. Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. This device should be installed and operated with minimum distance 20cm between the radiator and your body.

Qualifications

Inspection Approved