

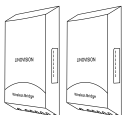
LINOVISION

Outdoor 3km Wireless Bridge with
RS485 Input
IOT-W306S(2 Pack)
Quick Guide (V1.1/2026-7-27)

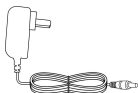


Quick Guide

Package Contents



IOT-W306S(2 Pack)



2 * Power Adapter

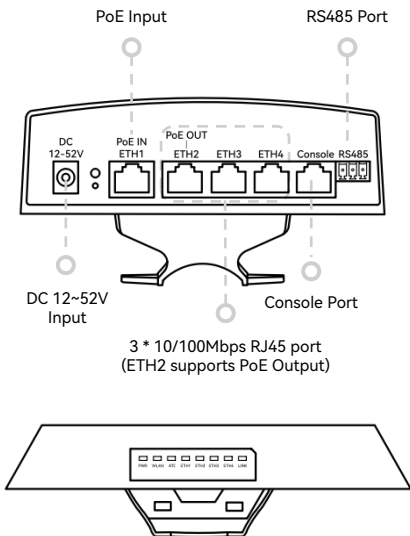


2 * Hoop

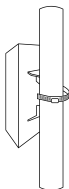
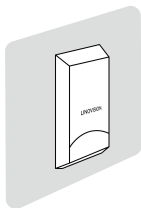


1 * Quick Guide

Interface

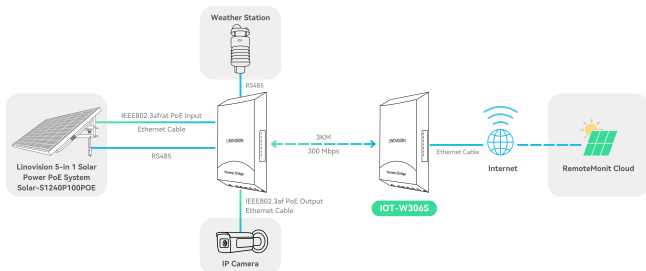


Installation



Wall Mounting & Pole-Mounting

Connection Diagram



WEB Login

Web Login Steps

This kit includes one AP (Transmitter) and one CPE (Receiver), which are pre-configured and paired at the factory. They are ready to use without additional pairing or mode setup.

The following instructions are only required if you need to access the Web Management Page or change the device settings.

Step 1 Log In to the Web Management Page

Note: This step applies to both the Transmitter (AP) and Receiver (CPE). Configure the IP address for each device to ensure they are accessible for subsequent setup.

1.1 Configure the PC IP Address

Set the PC IP address to the same subnet as the device default IP.

- IP address: 172.20.X.X
- Subnet mask: 255.255.0.0

The image displays two side-by-side screenshots of Windows network configuration windows.

Left Window: Internet Protocol Version 4 (TCP/IPv4) Properties

- General** tab is selected.
- Text: "You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings."
- Radio buttons:
☐ Obtain an IP address automatically
☒ Use the following IP address:
- Fields:
IP address: 172 . 20 . 0 . 22
Subnet mask: 255 . 255 . 0 . 0
Default gateway: (empty)
- Radio buttons:
☐ Obtain DNS server address automatically
☒ Use the following DNS server addresses:
- Fields:
Preferred DNS server: (empty)
Alternate DNS server: (empty)
- ☐ Validate settings upon exit
- Buttons: OK, Cancel, Advanced...

Right Window: Advanced TCP/IP Settings

- Buttons: ? X
- Tab: IP Settings (selected), DNS, WINS
- Section: IP addresses
- Table:

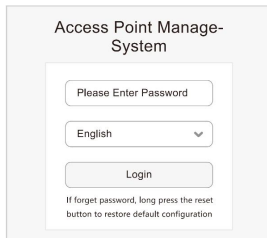
IP address	Subnet mask
172.20.0.22	255.255.0.0
- Buttons: Add..., Edit..., Remove
- Section: TCP/IP Address
- Buttons: ? X
- Fields:
IP address: 172 . 20 . 0 . 33
Subnet mask: 255 . 255 . 0 . 0
- Buttons: Add, Cancel
- ☒ Automatic metric
- Field: Interface metric: (empty)
- Buttons: OK, Cancel

1.2 Web Login

1. Open a web browser (Google Chrome or Microsoft Edge recommended).
2. Enter the device default IP address:
 - AP (Transmitter): <http://172.20.0.1>
 - CPE (Receiver): <http://172.20.0.2>

The device mode and corresponding IP address are printed on each device label.

3. Enter the login password and click Login.
 - Password: admin



Access Point Manage-System

Please Enter Password

English

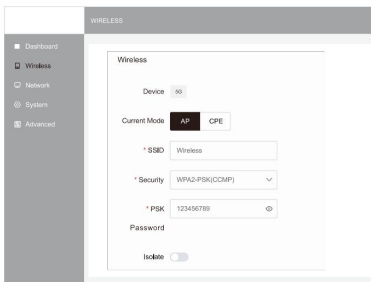
Login

If forget password, long press the reset button to restore default configuration

Step 2 Wireless Configuration

2.1 AP (Transmitter) Setup

1. Go to Wireless.
2. Select AP (Transmitter) as the operating mode.



WIRELESS

Dashboard

Wireless

Network

System

Advanced

Wireless

Device 90

Current Mode AP CPE

* SSID Wireless

* Security WPA2-PSK(CCMP)

* PSK 123456789

Password

Isolate

Wireless Settings

- SSID: Wireless
- Security: WPA2-PSK (CCMP)
- Password (PSK): 123456789

If multiple wireless bridge groups are required, modify the SSID to differentiate each group.

AP IP Address

- Default IP: 172.20.0.1
- The IP address can be modified if required.

3. Click Confirm to save the settings.

2.2 CPE (Receiver) Setup

1. Go to Wireless.
2. Select CPE (Receiver) as the operating mode.

The screenshot shows a web-based configuration interface for a device. The top navigation bar is labeled "WIRELESS". On the left, a sidebar menu contains "Dashboard", "Wireless", "Network", "System", and "Advanced". The main content area is titled "Device 5G". It features a "Current Mode" section with two buttons: "AP" and "CPE", where "CPE" is selected. Below this is a field for "* SSID of" with the value "Wireless" and a "Seavey" button. The "Remote AP" section includes a "MAC of" field and a note: "This parameter is optional. If you write to the peer MAC address, the device is bound to the specified upper-layer device." The "* Security" field is set to "WPA2-PSK(CCMP)". The "* PSK" field contains the password "123456789" with a toggle icon. A "Password" label is positioned at the bottom of the form.

Wireless Pairing

- Scan and select the SSID from the AP, then enter the wireless password or Manually enter the SSID and password
- Default SSID: Wireless
- Default Password: 123456789

Pairing is successful when the SSID and password match those of the AP.

CPE IP Address

- Default IP: 172.20.0.2
- The IP address can be modified if required.

For point-to-multipoint applications, each device must use a unique management IP address.

Example:

- AP: 172.20.0.1
- CPE 1: 172.20.0.2
- CPE 2: 172.20.0.3

3. Click Confirm to save the settings.

Step 3 Network Configuration

Note: Select either Dynamic IP or Static IP.

3.1 Dynamic IP (DHCP)

Select Dynamic IP to automatically obtain network parameters.

- WAN Type: Dynamic IP

Click Confirm to save.

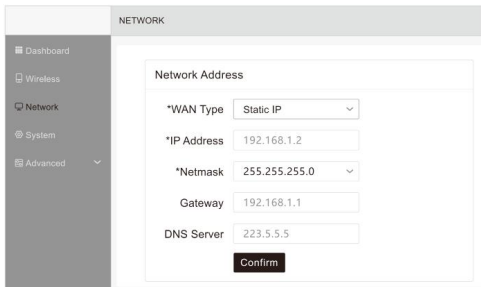
The screenshot displays a web-based configuration interface for a network device. On the left is a vertical sidebar with a menu containing 'Dashboard', 'Wireless', 'Network' (which is highlighted), 'System', and 'Advanced'. The main content area is titled 'NETWORK' and contains a 'Network Address' configuration box. Inside this box, the '*WAN Type' is set to 'Dynamic IP' via a dropdown menu, and the 'DNS Server' is set to '223.5.5.5' in a text input field. A black 'Confirm' button is located at the bottom of the configuration box.

3.2 Static IP

Select Static IP to manually configure network parameters.

- IP Address
- Netmask
- Gateway
- DNS Server

Click Confirm to save.



The screenshot shows the 'NETWORK' configuration page in the RemoteMonit interface. On the left is a sidebar with navigation options: Dashboard, Wireless, Network (selected), System, and Advanced. The main content area is titled 'Network Address' and contains the following fields:

- *WAN Type: Static IP (selected from a dropdown)
- *IP Address: 192.168.1.2
- *Netmask: 255.255.255.0 (selected from a dropdown)
- Gateway: 192.168.1.1
- DNS Server: 223.5.5.5

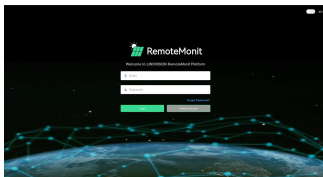
A 'Confirm' button is located at the bottom of the configuration area.

TCP Gateway Configuration

1. Add a New TCP Gateway

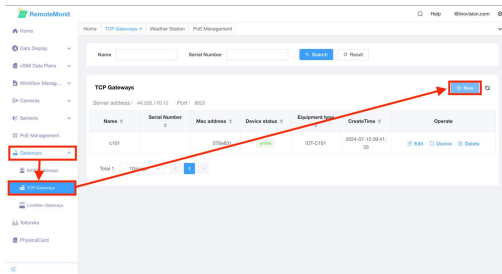
Step 1. Log In to the RemoteMonit Platform

- Open the RemoteMonit platform at <https://remotemonit.com/> and log in to your account.
- If you do not have an account, please register a new one first.



Step 2. Add a New TCP Gateway

In the left sidebar, navigate to:
Gateways → TCP Gateways → + New
to add a new TCP gateway.



Step 3. Configure Gateway Information

Fill in the required information as follows:

- **Name:** The gateway name. This field can be customized.
- **Equipment Type:** Select the appropriate device model based on your current device.
- **MAC Address:** The MAC address can be found on the label on the back of the device or on the device configuration details page.
- **Serial Number:** (Optional) Used to identify or manage specific device information.
- **Time Interval:** The data transmission interval of the TCP gateway. Select a value between 10–300 seconds according to your application requirements.

The 'New' gateway configuration form is shown. It includes the following fields and labels:

- Name:** A text input field with a red asterisk indicating it is required.
- Equipment type:** A dropdown menu with a red asterisk indicating it is required.
- Mac address:** A text input field with a red asterisk indicating it is required. Below the field is the placeholder text 'Please fill in the lowercase mac address'.
- Serial Number:** A text input field.
- TimeInterval:** A text input field with a red asterisk indicating it is required. Below the field is the placeholder text 'Please enter an integer from 10-300'.

At the bottom right of the form are two buttons: 'Cancel' and 'Confirm'.

2. Match the Gateway

Designed for use as a TCP gateway with the RemoteMonit platform, the IOT-W306S comes with its RS485 interface pre-configured at a baud rate of 9600 bps. Connected RS485 devices can communicate directly with the platform, as shown in the example below.

The screenshot shows the RemoteMonit web interface. On the left is a sidebar with navigation links: Home, Data Display, Repl Data Plan, Workflow Manag., Cameras, Sensors, Tools (highlighted with a red box and arrow), Battery, Weather Station, RS485 Device, and IOT/W306S Device. The main area is titled 'New' and contains a configuration form. The form has the following fields: 'Name' (S1240P100POE), 'Equipment type' (Solar-S1240P100POE, highlighted with a red box and arrow), 'TCP Gateways' (IOT-W306S, highlighted with a red box and arrow), 'Gateways' (TCP Gateways), 'Slave address' (99), 'Latitude', and 'Longitude'. At the bottom is a map of Canada with a search bar and a 'Map' button.

The factory configuration is ready for use. If you need to manually change the gateway settings, follow the steps below to connect the device to the RemoteMonit platform.

Step 1. Download the Configuration Tool

Scan the QR code on the front page to download VirCom_en.rar.

Step 2. Select the Device

Extract VirCom_en.rar, then open the tool.

Select Device, and choose the device you want to connect to the RemoteMonit platform.

Step 3. Configure TCP Client Parameters

Configure the parameters as follows:

- Set Register Pkt to match the Dev ID
- Select TCP Client as the Work Mode
- Set Dest. IP/Domain and Dest. Port to match the Server Address and Port shown on the RemoteMonit platform

Device Settings

Device Info

Virtual Serial

Port Use

Dev Type

230C0V8601

Dev Name

230C0V8601

Dev ID

88888888

Firmware Ver

V1.023

Function of the device

☐ HTTP Download
☒ DNS System
☒ REAL_COM Protocol
☒ Wireless TCP to RTU
☒ Serial Command
☒ DHCP Request
☒ Storage Expand
☒ Multi-TCP Connection

Get Default

Save As Default

Load Default

Network

IP Mode

Static

IP Address

192.168.1.1

Port

0

Work Mode

TCP Client

Net Mask

255.255.255.0

Gateway

192.168.1.1

Dest. IP/Domain

44.201.176.12

Dest. Port

8822

Serial

Baud Rate

9600

Data Bits

8

Parity

None

Stop Bits

1

Flow Control

None

Advanced Settings

DNS Server IP

192.168.1.1

Dns. Mode

Dynamic

Transfer Protocol

None

Keep Alive Time

64

Reconnect Time

12

HTTP Port

80

UDP Group IP

230.168.1.1

Register Pk

230C0V8601

Register Pk

230C0V8601

Restart for no data

every 100 Sec

More Advanced Settings

Framing Rule

Max Frame Length

1000

Max Interval(Smaller will better)

3

RemoteMonit

Home

TCP Gateways

230C0V8601 Device

Device Name

230C0V8601

Device Number

1

Device Address

192.168.1.1

TCP Gateways

Device Name

Device Number

Max address

Device status

Equipment type

Create Time

Remarks

230C0V8601	1	192.168.1.1	Online	230C0V8601	2023-12-17 10:17:19	
230C0V8601	2	192.168.1.2	Offline	230C0V8601	2023-12-17 10:17:19	
230C0V8601	3	192.168.1.3	Offline	230C0V8601	2023-12-17 10:17:19	
230C0V8601	4	192.168.1.4	Offline	230C0V8601	2023-12-17 10:17:19	
230C0V8601	5	192.168.1.5	Offline	230C0V8601	2023-12-17 10:17:19	
230C0V8601	6	192.168.1.6	Offline	230C0V8601	2023-12-17 10:17:19	
230C0V8601	7	192.168.1.7	Offline	230C0V8601	2023-12-17 10:17:19	
230C0V8601	8	192.168.1.8	Offline	230C0V8601	2023-12-17 10:17:19	
230C0V8601	9	192.168.1.9	Offline	230C0V8601	2023-12-17 10:17:19	
230C0V8601	10	192.168.1.10	Offline	230C0V8601	2023-12-17 10:17:19	

Step 4. Apply Settings

Click Modify Setting.

When the device status shows Online on the RemoteMonit platform, the configuration is complete.

Specifications

Hardware Specifications		
DRAM	DDR2, 64 MB	
Flash	8 MB	
Network & Device Interfaces		
Ethernet Ports	3 × 10/100 Mbps RJ45 ports (1 port supports IEEE 802.3af PoE output; 1 port supports IEEE 802.3af/at PoE input)	
Uplink Port	1 × 10/100 Mbps uplink Ethernet port	
Console Port	1 × console port	
RS485 Interface	1 × RS485 interface	
DC Power Interface	1 × DC input (DC 12–52 V, 2 A input; internally boosted to DC 48 V to enable IEEE 802.3af PoE output on ETH2; maximum output power 15 W)	
Wireless Data Rates		
802.11a	54, 48, 36, 24, 18, 12, 9, 6 Mbps	
802.11n HT20	7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2, 86.7, 115.6, 130, 144.4 Mbps	
802.11n HT40	15, 30, 45, 60, 90, 120, 135, 150, 180, 240, 270, 300 Mbps	
Wireless Technology		
Transmission Method	Direct Sequence Spread Spectrum (DSSS)	
Modulation	OFDM / BPSK / QPSK / CCK / DQPSK / DBPSK	
Standards & Protocol Support		
Wireless Standards	IEEE 802.11n, IEEE 802.11a	
Ethernet Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3x	
PoE Standards	IEEE 802.3af, IEEE 802.3at	
Network Protocols	CSMA/CA, TCP/IP, IPX/SPX, NetBEUI, DHCP, NDIS3, NDIS4, NDIS5	
RF Characteristics		
Frequency Range	4900–6100 MHz	
RF Output Power (@25 °C ±2 dB)		
802.11a	6–24 Mbps	27 ±2 dBm
	36–48 Mbps	26 ±2 dBm
	54 Mbps	25 ±2 dBm

Specifications

802.11a	6–24 Mbps	27 ±2 dBm
	36–48 Mbps	26 ±2 dBm
	54 Mbps	25 ±2 dBm
802.11n HT20	MCS 0–3	27 ±2 dBm
	MCS 4	26 ±2 dBm
	MCS 5	25.5 ±2 dBm
	MCS 6	25 ±2 dBm
	MCS 7	24.5 ±2 dBm
802.11n HT40	MCS 0–3	26 ±2 dBm
	MCS 4	25.5 ±2 dBm
	MCS 5	25 ±2 dBm
	MCS 6	24.5 ±2 dBm
	MCS 7	24 ±2 dBm
Receiver Sensitivity		
802.11a	6Mbps ≤ -89; 54Mbps ≤ -73	
802.11n	HT20	MCS 0 ≤ -86; MCS 7 ≤ -68
	HT40	MCS 0 ≤ -83; MCS 7 ≤ -65
Antenna		
Frequency Range	4900–6100 MHz	
Polarization	Vertical / Horizontal	
Gain	16 dBi	
Switching & Forwarding Performance		
Switching Capacity	1 Gbps	
Packet Forwarding Rate	12.96 Mpps	
Forwarding Mode	Wire-speed forwarding on all ports	
MAC Address Table	4K	
Port Auto-Negotiation	Supported	
Power System		
Power Input	DC 12–48 V / PoE 48 V	
Boost Converter Input	DC 12–36 V, 2 A	

Specifications

Maximum PoE Output Power	15 W
Power Consumption	≤ 6 W
Management & Security	
Management Methods	WEB-based management, SNMP MIB, Telnet, Serial
MAC Address Control	Not supported
Encryption	WEP (64/128-bit), WPA, WPA2, 802.1X
Serial Device Server (RS485)	
Interface	RS485 terminal
Ethernet Protection	RJ45 interface, 2 kV surge protection
Serial Signals	RXD, TXD, GND
Baud Rate	300~115200 bps
Parity	None, Odd, Even, Mark, Space
Data Bits	5~9 bits
Flow Control	None
Software & Configuration	
Supported Protocols	Ethernet, IP, TCP, UDP, HTTP, ARP, ICMP, DHCP, DNS
Configuration Methods	ZLVirCOM tool, Web browser, device management function library
Communication Method	TCP/IP direct communication, virtual serial port mode
Operating Mode	
Operating Temperature	-30 to +65 °C
Storage Temperature	-50 to +80 °C
Humidity (Non-condensing)	≤95% (non-condensing)
Product Specifications	
Dimensions (L × W × H)	228 × 135 × 45 mm (8.98 × 5.31 × 1.77 in)
Weight	0.4 kg (0.88 lb)

LED Indicators

LED	Status	Indication
PWR	On	Power is on and device is operating normally
WLAN	On	Wireless signal is transmitting normally
ATC (Uplink Port)	On	Uplink port is connected normally
	Blinking	Data is being transmitted
ETH 1-4	On	Ethernet port is connected normally
	Blinking	Data is being transmitted
Link (RS-485 Port)	On	RS-485 connection is established normally
	Blinking	Data is being transmitted