



## Product Introduction

L8 and L8P are low-power solar router products. The router uses a 4G routing terminal device equipped with a 4G wireless communication module on the ASR platform. It is stable, has a long life, and has strong anti-interference capabilities. The product supports power display, RJ45 network port (function optional), supports 2.4 G WIFI, and L8 supports WIFI access for up to 8 devices. L8P is an enhanced version of L8. It uses MTK7628 as the main chip, has a stronger WIFI signal, and still has a good WIFI signal 150 meters away. It supports WIFI access for up to 15 devices.

The products are available in European and Australian versions, American versions, Asian versions and other versions, supporting 4G standards in more than 70 countries, and are suitable for most users around the world.

## Product parameters

- Photovoltaic panels: ① Photovoltaic cells: imbricated single crystals; ② Power: 15W/5V;
- ③ Open circuit voltage 7.1 V; ④ Size: 310 \* 223mm; ⑤ Conversion efficiency: 22% ~24%;
- WIFI protocol: 802.11 n/g/b;
- Network type: TDD-LTE, FDD-LTE, WCDMA;
- Supported network frequency bands:  
U-L8 : LTE B1/B2/B3/B4/B5/B7/B8/B28/B12/B17/B66/B38/B40/B41;  
WCDMA B1/B2/B4/B8;  
C&E-L8 : LTE B1/B3/B5/B7/B8/B20/B28/B38/B40/41; WCDMA B1/B5/B8;  
A-L8 : LTE B1/B3/B5/B8/B34/B38/B39/B40/B41; WCDMA B1/B5/B8;  
LTE rate: FDD-LTE 150M DL/50M UL Cat4; TDD-LTE 130M DL/35M UL Cat4;
- SIM card slot: Support Micro SIM card;
- Network port: Support one-route RJ45 network port (the default factory equipment does not have a network port);
- USB port: Support one-route Type-C input interface;
- RESET: Support factory RESET key;
- Dialing mode: RNDIS; (L8P supports RNDIS/GobiNet)
- Operating system: Windows series/Linux/Android and other embedded operating systems;
- Working temperature: -20°C-80°C;
- L8 power supply: 5V 1A; Standby power consumption: 1W;
- L8P power supply: 5V 5A; Standby power consumption: 1.6 W;
- Web background: Support web background management, address 192.168.1.1, login account password: admin/admin;

### L8P Interface Status Description:

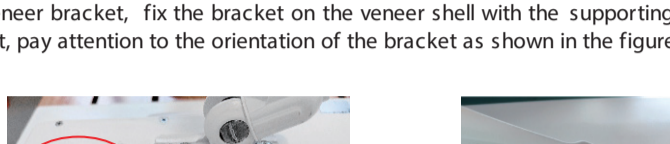


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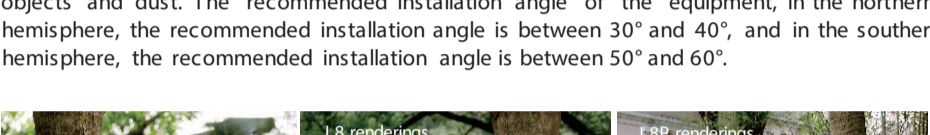
- RESET is for the network RESET key to be pressed for 3 seconds and then released.
- The Type-C interface can be used as a 5 V/1A input to charge the device. (The L8P's Type-C interface can be used as a 5V/5A input to charge the device).
- Please clear the browsing history of the browser before using the WEBUI management function.
- Installation instructions: It is recommended that the installation height of the equipment be 2-6 meters, and there is no occlusion around.

## Product Installation

First, use the screws that come with the bracket to fix it to the bottom cover, paying attention to the orientation of the bracket as shown in the picture.  
Install L8P veneer bracket, fix the bracket on the veneer shell with the supporting screw gasket of the bracket, pay attention to the orientation of the bracket as shown in the figure.



Then use 4 self-tapping screws to fix the bracket on the wood or wall. It is recommended that the installation height of the equipment is 2-6 meters, and there is no shelter around, no falling objects and dust. The recommended installation angle of the equipment, in the northern hemisphere, the recommended installation angle is between 30° and 40°, and in the southern hemisphere, the recommended installation angle is between 50° and 60°.

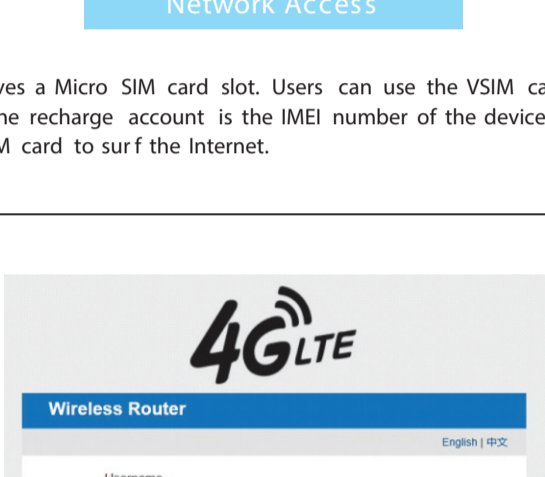


Overall diagram of product installation. (Note that the single-board Type-C output interface of L8P is inserted into the router Type-C input interface, and there is no shadow occlusion between the two boards.)

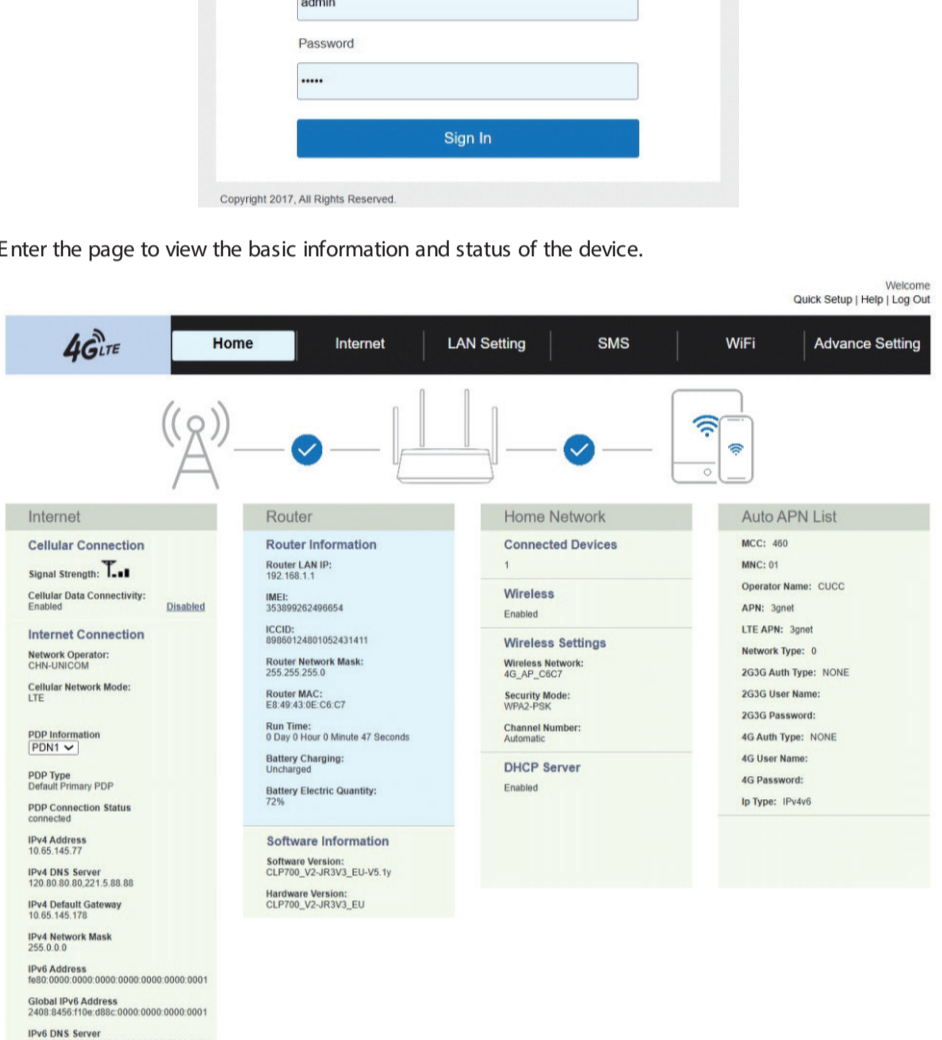
## Network Access

The product reserves a Micro SIM card slot. Users can use the VSIM card of the device to surf the Internet. The recharge account is the IMEI number of the device, and they can also insert the Micro SIM card to surf the Internet.

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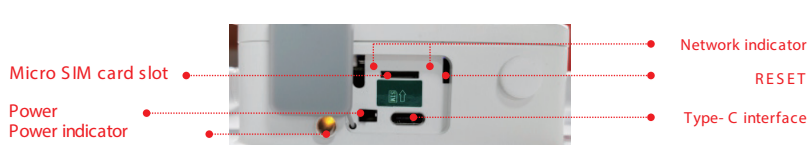


Enter the page to view the basic information and status of the device.



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## L8 Interface Status Description:



### Remarks:

- Description of the status of the power indicator:

State	(Capacity Indication)					
	Discharge		charge		charge	
Capacity indicator	L1	L2	L3	L1	L2	L3
0%	Flash	off	off	Flash	off	off
1-33%	on	off	off	Flash	off	off
34-66%	off	off	off	Flash	off	off
67-99%	off	off	off	Flash	off	off
100%	off	off	on	off	off	on

Flash: flash frequency 2HZ; Slow flash: flash frequency 1HZ.

- Description of the status of the network indicator:

L8 Network Indicator Status Description	
Red light always on	Device power supply is normal
Blue light flashes slow	No SIM card or SIM card not registered
Blue light flashes fast	Normal registration
Yellow light always on	Device standby
Yellow light flashes slow	With external devices accessing the network
Green light always on	Access to network with terminal equipment
Green light flashes	There is network data interaction

L8P Network Indicator Status Description	
Blue light always on	4G signal normal
Blue light flashes	No SIM card or SIM card not registered
Red light strobes	WIFI signal normal
Green light always on	Access to network with terminal equipment
Green light flashes	There is network data interaction

L8 network indicator: blue light is 4G network indicator, yellow light is WIFI signal indicator, green light is Ethernet indicator.  
L8P network indicator: blue light is 4G network indicator, red light is WIFI signal indicator, green light is Ethernet indicator.

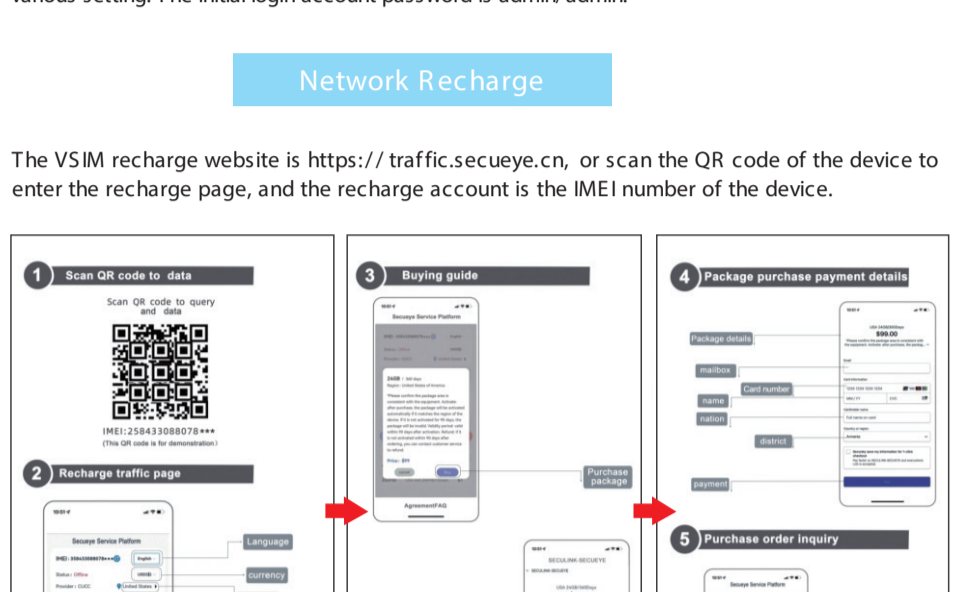
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Device offers Wi-Fi AP capability. The default name of the Wi-Fi SSID is 4G\_AP\_XXXX (XXXX is the last 4 digits of the WIFI MAC address), and the default password is 12345678. The default address of the device is 192.168.1.1. Log in to the http://192.168.1.1 WEBUI management page to make various settings. The initial login account password is admin/admin.

## Network Recharge

The VSIM recharge website is https://traffic.secureye.cn, or scan the QR code of the device to enter the recharge page, and the recharge account is the IMEI number of the device.



## WEBUI Management System

The default setting of the device can work, and the default setting can also be modified through the WEBUI management page. WEBUI admin pages support Internet Explorer 11 and later, Firefox, Chrome, Safari and other major browsers.

- Introduction to basic functions:  
The user connects to the device network and enters the "192.168.1.1" login account password in the browser.

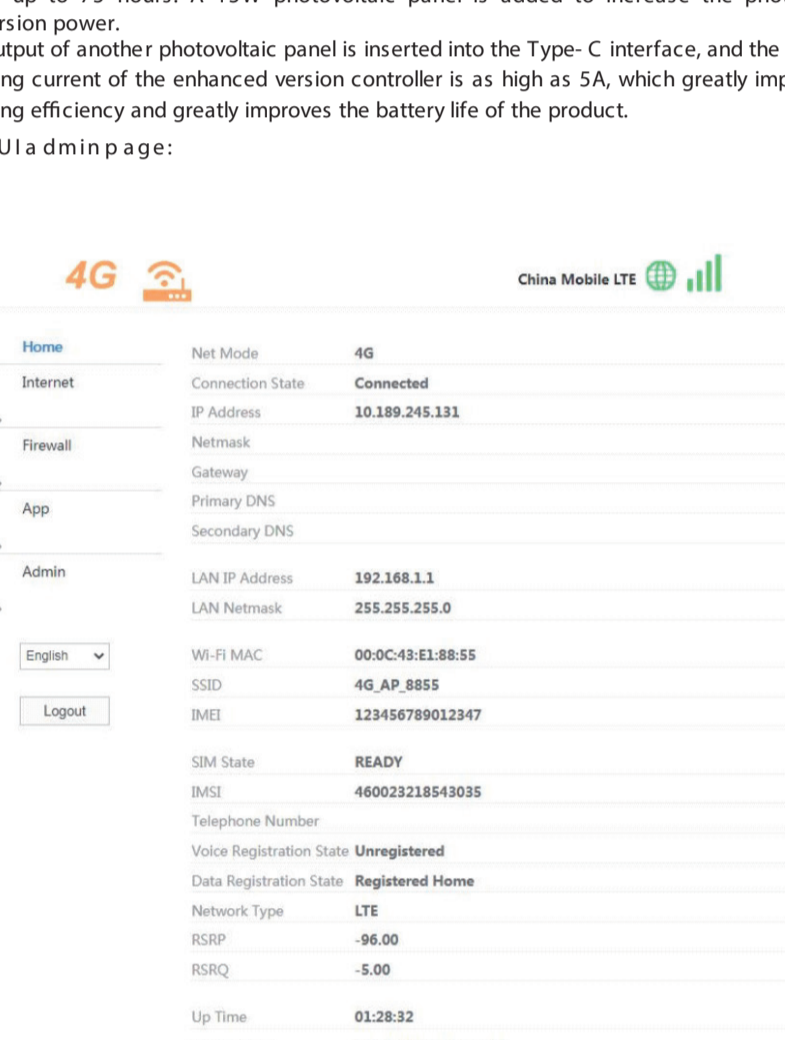
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## Enhanced Version L8P Model Additional Description

The enhanced version of L8P uses MTK7628 chip as the main control chip, which greatly enhances the WIFI signal, and there is still a good WIFI signal 150 meters away. The WEBUI management system login method is the same as the ordinary model, and the parameter setting are similar. The enhanced version uses a new 21700-35AH battery with a pure battery life of up to 75 hours. A 15W photovoltaic panel is added to increase the photoelectric conversion power.

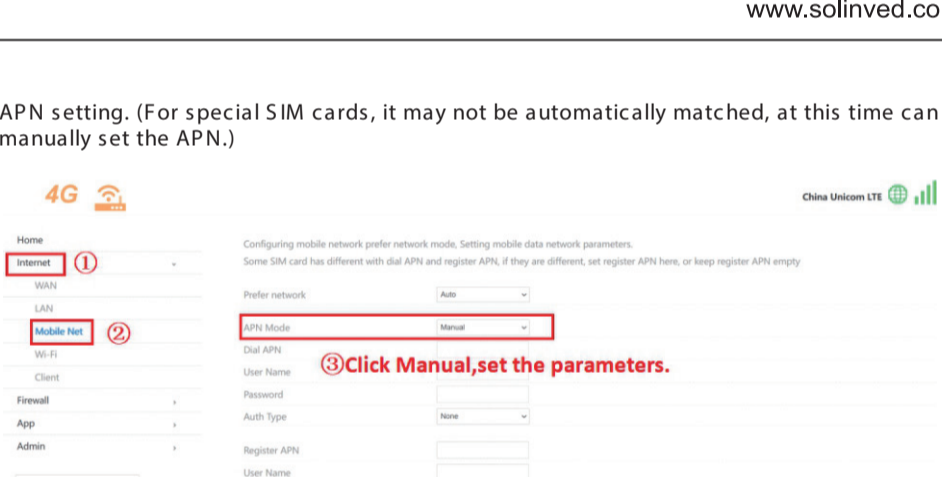
The output of another photovoltaic panel is inserted into the Type-C interface, and the maximum charging current of the enhanced version controller is as high as 5A, which greatly improves the charging efficiency and greatly improves the battery life of the product.

WEBUI admin page:



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APN setting. (For special SIM cards, it may not be automatically matched, at this time can manually set the APN.)



## Common Faults and Analysis

Fault	Cause Analysis
The light does not turn on	Check whether the power is turned on and whether the battery is empty (plug in the 5V/1A power supply, and check whether the device can be charged after 20 minutes)
Power indicator red flashes fast	Device in overplay protection state
Power indicator green/yellow/red flash slow	Device is charged
Can't open UI interface	- Check whether the network port is normal. - Do you enter the gateway address normally or change the gateway address yourself? - Clear browser cookies.
UI shows no network	- Check that the device is in normal network mode. - Check if the tariff card is normal. - Check if APNs match.
The terminal device cannot connect to the device via WIFI	- Confirm WIFI password is correct. - Confirm that the WIFI function is normally enabled and that the WIFI hotspot is not hidden. - Confirm connected devices are not blacklisted.

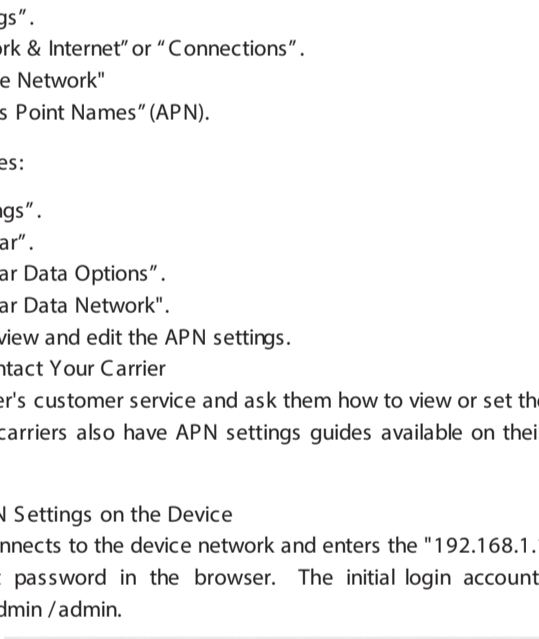
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## Troubleshooting internet Connection with Your SIM Card

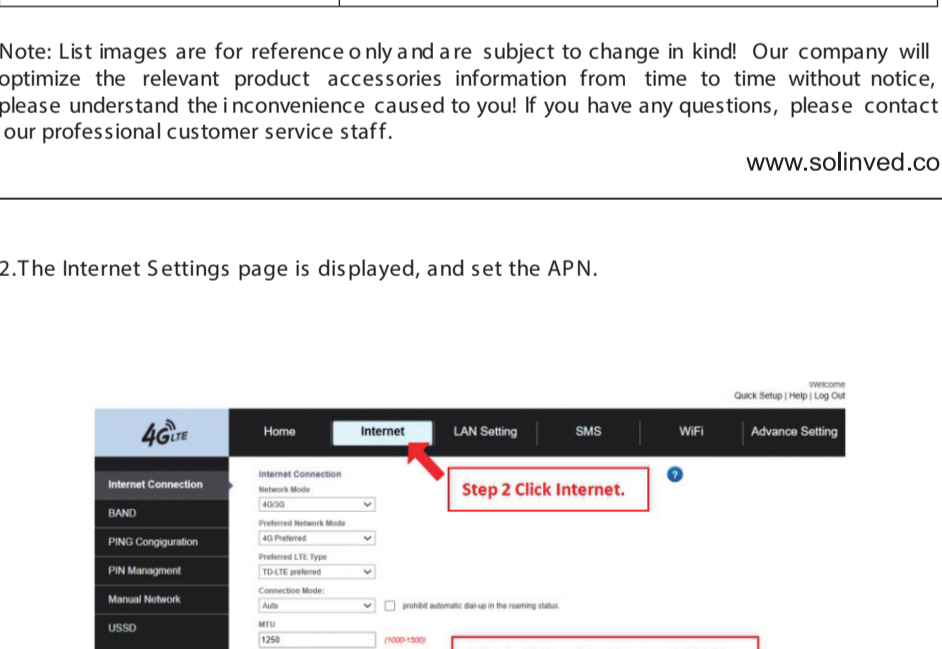
If your device cannot connect to the internet after inserting your SIM card, please follow these steps:

- Compatibility Check  
Considering the compatibility of our product with various SIM cards, we have found that some customers might still experience connection issues. To address this, we suggest scanning the QR code to activate the built-in SIM card. You will receive 2.00MB of data for free. Alternatively, you can manually set the APN to make our product compatible with your SIM card.
- How to Find Your SIM Card's APN Name  
Method 1: Through Mobile Phone Settings  
Insert your SIM card into your smartphone and follow these steps to find the APN name:  
For Android Devices:  
Open "Settings".  
Open "Network & Internet" or "Connections".  
Select "Mobile Network".  
Tap "Access Point Names" (APN).  
For iOS Devices:  
Open "Settings".  
Select "Cellular".  
Tap "Cellular Data Options".  
Tap "Cellular Data Network".  
Here you can view and edit the APN settings.  
Method 2: Contact Your Carrier  
Call your carrier's customer service and ask them how to view or set the APN. Many carriers also have APN settings guides available on their websites.
- Manual APN Settings on the Device  
1. The user connects to the device network and enters the "192.168.1.1" login account password in the browser. The initial login account password is admin/admin.

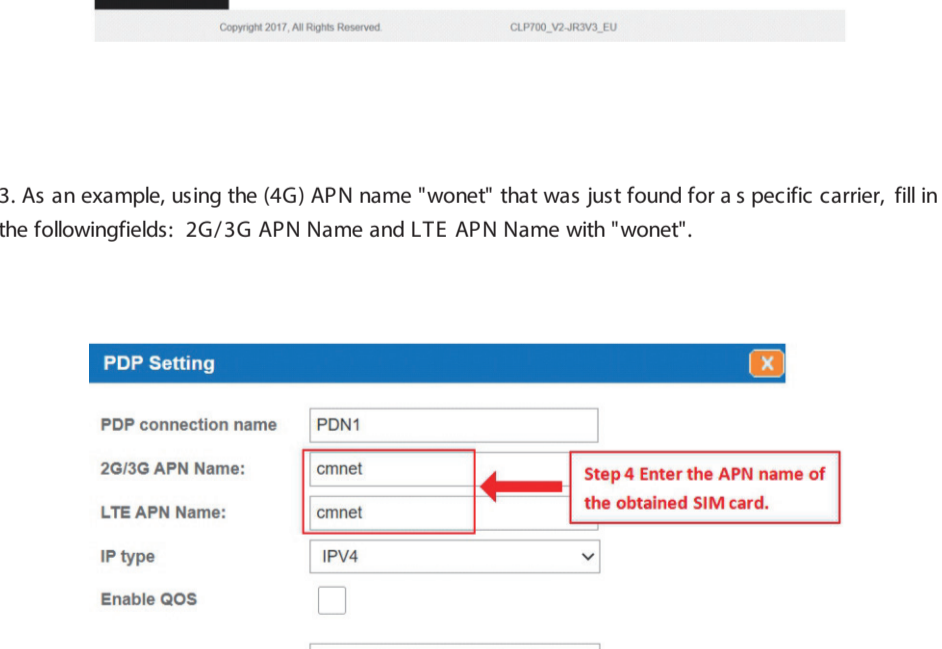


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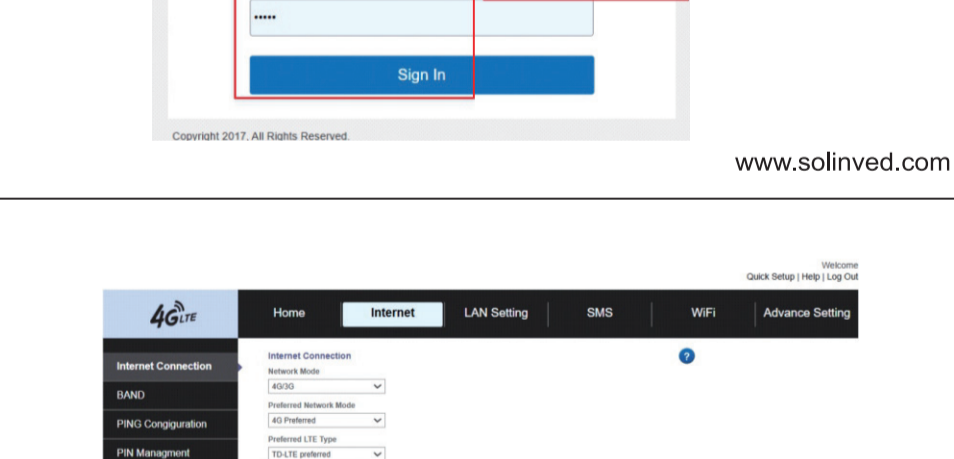
2.The Internet Settings page is displayed, and set the APN.



3. As an example, using the (4G) APN name "wonet" that was just found for a specific carrier, fill in the following fields: 2G/3G APN Name and LTE APN Name with "wonet".



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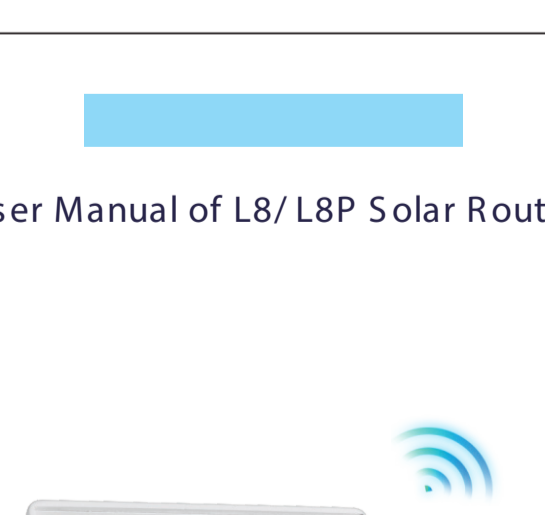


After entering the APN settings, save the configuration and restart the device if necessary. This should enable your device to connect to the internet using your SIM card.

## Customer Service

Thank you again for choosing our products, the operation and installation of this product is very simple, if you encounter any questions in the process of use, you can contact our professional technical customer service through sales channels, our company will provide professional technical support!

## User Manual of L8/L8P Solar Router



In order to bring you a better use experience, please read the instructions carefully before using the product, and keep it properly for future reference.

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## Product Picture



(L8 Front) (L8 Reverse side)  
(L8 Flank) (L8P Flank)  
(L8P Front) (L8P Reverse side)

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