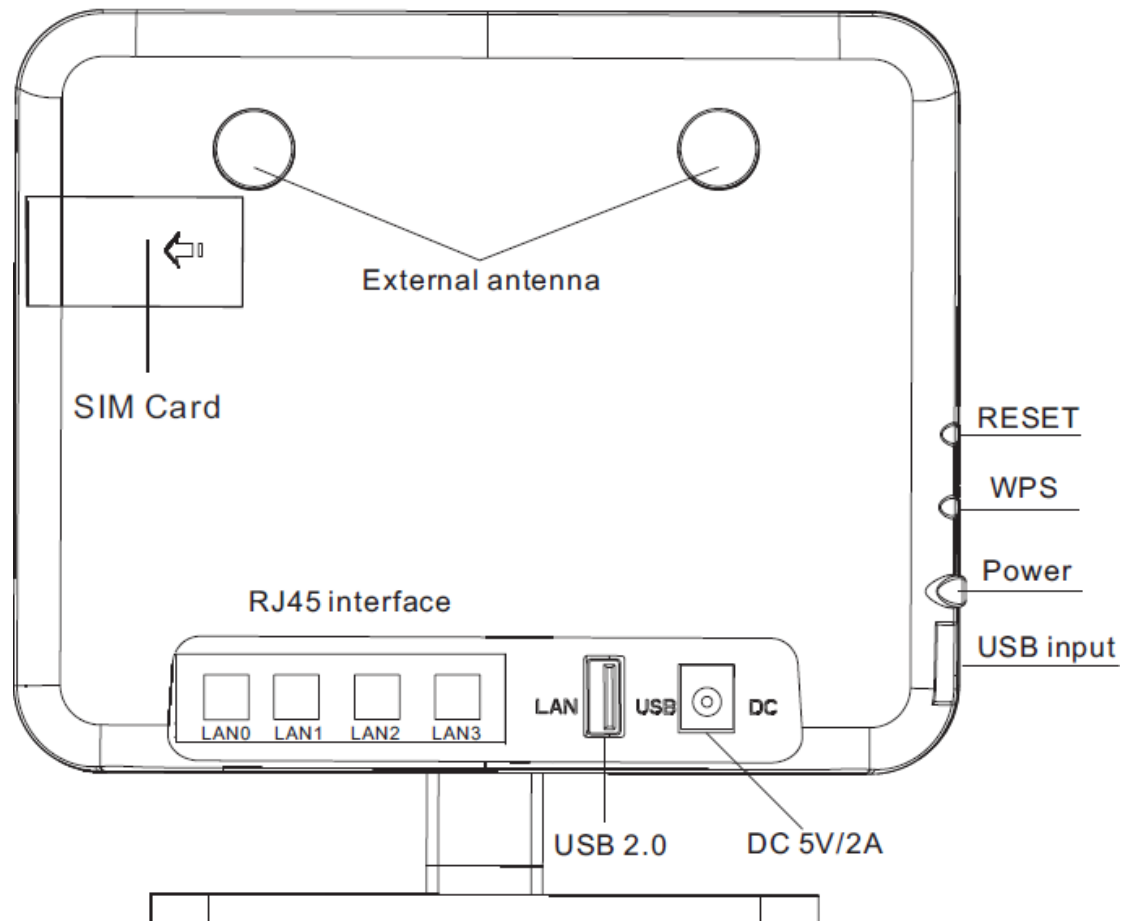




# User Manual

## 1. Interface description



1. RJ45 Port: LAN0 In standard routing mode, LAN can be used as WAN.
2. RJ45 Port: LAN1、LAN2、LAN3
3. DC/USB Power Port: DC/5V, USB/5V  
DC Port use 2.5mmStandard round head power supply Port, USB use Micro USB Port.
4. External WIFI Antenna Port: SMA screw hole Port。
5. RESET: Press this button for 5 seconds at startup,SYS light will flash, then restart it, Reset successfully.
6. USB Port: USB2.0
7. SIM: The SIM slot is located at the top of the product,  
The SIM card can be installed by pushing the lid off the lid.

### Indicator light status description

Name	State	Description
LAN0-LAN3 Light	flashing	RJ45 Port Connected
	destroy	RJ45 Port Not Connected
WIFI	bright	Wireless is working
	flashing	It is transferring data
BAT(A battery)	red	Light up, battery charging state.
	green	Light up, the battery is full of state.
	yellow	Light up, low battery state.
WPS	destroy	WPS function off
	flashing	WPS function starts.
INTERNET	bright	The connection is successful
	flashing	Connecting
PWR	destroy	Power off
	bright	Power on

## 2.Set to Prepare

### Connect device

You can connect your computer and modem under the below steps.

### Set the Computer IP Address

Before accessing the Web Settings page.It is recommended that you set the computer to "automatically obtain IP address" and "automatically obtain DNS server address".The IP address is automatically assigned by the router.If you need to specify a static IP address to the computer.The IP address of the computer should be set in the same subnet as the LAN port IP address of the router (the router's LAN port default IP address is: 192.168.0.1, The subnet mask is:255.255.255.0) .

### Connected by WiFi

Detect the wireless network connection of the wireless router,Then click the 'connect' butt on to establish the connection.The WiFi Password is : 12345678。

### Make sure the computer is connected to the router

When your computer shows that IP has been successfully obtained,Please use the Ping command to confirm whether the computer and the router are connected successfully.

For example, in a Windows XP environment. Perform Ping command

: Ping 192.168.0.1

If the screen is shown below.Indicates that the computer has successfully connected with the router.

```
C:\Users\ls>ping 192.168.0.1

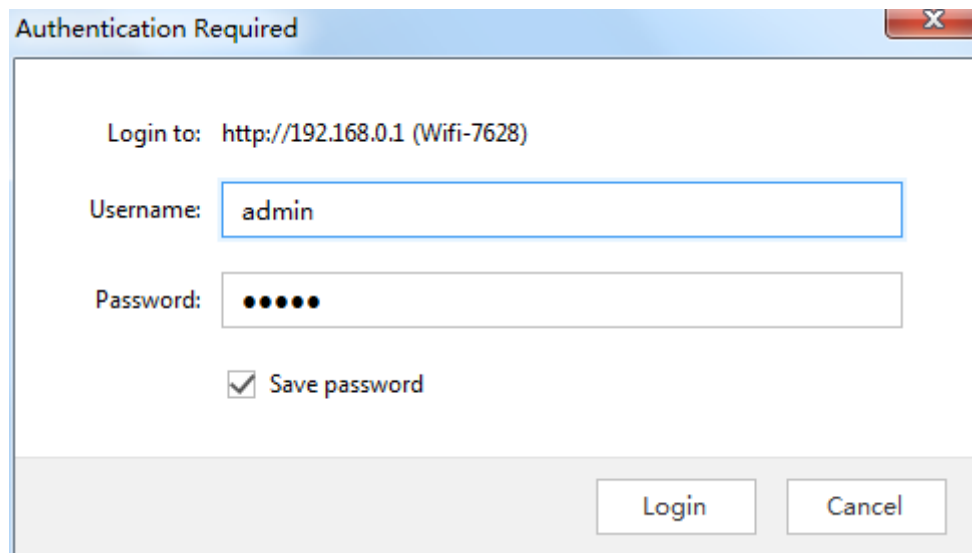
Pinging 192.168.0.1 with 32 bytes of data:
Reply from 192.168.0.1: bytes=32 time=5ms TTL=127
Reply from 192.168.0.1: bytes=32 time=2ms TTL=127
Reply from 192.168.0.1: bytes=32 time=1ms TTL=127
Reply from 192.168.0.1: bytes=32 time=1ms TTL=127
```

## Landing router

Next you will log on to the router Web Settings page.

Enter

“192.168.0.1” in the Web browser address bar,,Enter the login user name and password i  
n the pop-up box.Please lose the default user name when logging in for the first time:  
**admin, Password: admin.**

A screenshot of a web browser's authentication dialog box. The title bar reads "Authentication Required" with a close button (X) on the right. The main content area shows "Login to: http://192.168.0.1 (Wifi-7628)". Below this, there are two input fields: "Username:" with the text "admin" entered, and "Password:" with five black dots. A checkbox labeled "Save password" is checked. At the bottom right, there are two buttons: "Login" and "Cancel".

Authentication Required

Login to: http://192.168.0.1 (Wifi-7628)

Username: admin

Password: •••••

☒ Save password

Login Cancel

## Enter the router Web Settings page

After Enter, Go to Web Set UI,then you can set and manage the modem.

[Status](#) | [Mode](#) | [4G](#) | [LAN](#) | [Wireless](#) | [Security](#) | [Server](#) | [Routing](#) | [Admin](#) | [Logout](#)

[Summary](#) | [Log](#) | [File Sharing](#)

REFRESH

Work Mode

4G Wireless Router Mode

3G/4G Connect

Auto Select

3G/4G ISP

EVDO/CDMA 1X/LTE

Signal

61%

SIM/UID Status

Available

3G/4G Service

Valid service

3G/4G Network

LTE

WAN Info:

Connection Type

4G Wireless Dial Up(Connected)

CONNECT

DISCONNECT

IP Address

10.166.221.38

Subnet Mask

255.255.255.0

Gateway

10.166.221.217

DNS 1

218.4.4.4

DNS 2

218.2.2.2

MAC Address

20:15:10:01:9C:85

Keep Time

06:43:22

Help

Summary: Show current status and configurations of the router.

### 3. Working Mode

CPE supplies 4 working mode: 4G wireless mode (Default)、Standard wireless modem mode、Wireless AP+Wireless client bridge mode、Wireless AP+Wireless client mode.

4G Wireless Router Mode

Wireless and ethernet port connect to local network, The 4G USB modem connect to internet.

Standard Wireless Router Mode

Wireless connect to local network, The ethernet connect to internet.

Standard Wireless AP and APClient Bridge Mode

Wireless work for access point, APClient connect remote AP, Ethernet connect to local network.

Wireless AP Client Mode

Ethernet Wireless connect PC or local network, Another Wireless Interface work for a WAN port connect to other wireless AP or router.

WorkMode:

Choice the device work mode. if choice 'Smart Mode', The device will detect wan mode automatically. The priority as: 4G --> DHCP --> PPPoE --> AP-Client. Please input parameters in different mode at first.

## 1.4G Wireless Modem Mode.

CPE Set 4G Wireless modem mode as default, Insert 4G SIM card, the modem will identify 4G automatically. You can also define the network operators you need to choose.

The screenshot shows the '4G setup' configuration page. At the top, there are tabs: 'Setup' (selected), 'Break-Detection', 'DDNS', and 'AT CMD'. The '4G setup' section includes the following fields and options:

- Dial Device:** Radio buttons for '4G Device' (selected) and 'UART1'.
- Auto select 4G ISP:** A checked checkbox labeled 'Break DetectionEnable'.
- 3G/4G ISP:** A dropdown menu showing 'CDMA 1X/EVDO/LTE'.
- APN:** A text box containing 'ctnet'.
- Pin Code:** An empty text box.
- Dialed Number:** A text box containing '#777'.
- Username:** A text box containing 'card'.
- Password:** A text box containing '\*\*\*\*'.
- Authentication:** Radio buttons for 'Auto' (selected), 'CHAP', and 'PAP'.
- Auto Dial-up:** A checked checkbox.
- Router will reboot after dial:** A text box containing '5', followed by the text 'times failed. (0 will disabled)'.
- Extra AT cmd:** A text box containing 'use ';' )', followed by the text '(If there are more then one AT cmd, please use ';' )'.
- Primary DNS Server:** An empty text box.
- Secondary DNS Server:** An empty text box, followed by the text '(Optional)'.

Below the 4G setup section, there is a 'Network of 4G' section with three dropdown menus:

- CDMA 1X/EVDO/LTE:** A dropdown menu showing 'CDMA 1X/EVDO Hybrid'.
- GSM/TD-SCDMA/LTE:** A dropdown menu showing '4G Top-priority'.
- WCDMA/LTE:** A dropdown menu showing '4G Top-priority'.

On the right side, there is a 'Help' box with the following text:

4G setup:  
Setup 3G/4G modem dial information.if enable 'Auto select 4G ISP',The device will automatic input ISP dial information by IMSI. But the fuction olny use for Chinese ISP.

## 2.Standard modem mode

### 1) Static online mode

Enter the router management interface work mode to select the standard routing mode,WAN

Set the static address on the Internet,Enter the IP address, network mask, gateway, DNS and other related parameters provided by the ISP,then confirm.

The screenshot shows the 'WAN Setup' configuration page. At the top, there are tabs: 'Status', 'Mode', 'WAN' (selected), 'LAN', 'Wireless', 'Security', 'Server', 'Routing', 'Admin', and 'Logout'. Below the tabs, there are more tabs: 'Setup' (selected), 'Break-Detection', 'MAC-Clone', and 'DDNS'. The 'WAN Setup' section includes the following fields and options:

- Connection Type:** A dropdown menu showing 'STATIC (fixed IP)'.
- IP Address:** A text box containing '0.0.0.0'.
- Subnet Mask:** A text box containing '0.0.0.0'.
- Default Gateway:** A text box containing '0.0.0.0'.
- MTU:** A text box containing '1500', followed by the text '(576~1500)'.
- Primary DNS Server:** An empty text box.
- Secondary DNS Server:** An empty text box, followed by the text '(Optional)'.

At the bottom right, there are two buttons: 'APPLY' and 'CANCEL'.

On the right side, there is a 'Help' box with the following text:

Static IP Settings:  
Setup IP,Subnet Mask and Gateway provided by your ISP. MTU is the Maximum Transmission Unit of a network. DNS server address must be entered manually and also must be only one.

### 2) Dynamic Internet access

Enter the router management interface work mode to select the standard routing mode, WAN Set up the online mode to select the dynamic address, choose confirm, The router will automatically get the parameters assigned by the ISP.

The screenshot shows the 'WAN Setup' page in a router's management interface. The top navigation bar includes 'Status', 'Mode', 'WAN' (selected), 'LAN', 'Wireless', 'Security', 'Server', 'Routing', 'Admin', and 'Logout'. Below this is a sub-menu bar with 'Setup' (selected), 'Break-Detection', 'MAC-Clone', and 'DDNS'. The main content area is titled 'WAN Setup' and contains the following fields:

- Connection Type: **DHCP (Auto config)** (dropdown menu)
- MTU: **1500** (text input, with '(576~1500)' in parentheses)
- Primary DNS Server: (empty text input, with '(Optional)' in parentheses)
- Secondary DNS Server: (empty text input, with '(Optional)' in parentheses)
- Hostname: (empty text input, with '(Optional)' in parentheses)

At the bottom right of the form are 'APPLY' and 'CANCEL' buttons. On the right side, there is a blue 'Help' sidebar with the following text:

**Help**  
WAN Setup: MTU is the Maximum Transmission Unit of a network. You can setup DNS server address to obtain it manually or the one provided by ISP.

### 3) PPPoE online modem

Enter the router management interface work mode to select the standard routing mode, WAN Set up the online option .

PPPoE, Enter the user name, password and other relevant parameters provided by the ISP, Choose Confirm.

The screenshot shows the 'WAN Setup' page in a router's management interface, similar to the previous one. The top navigation bar and sub-menu bar are identical. The main content area is titled 'WAN Setup' and contains the following fields:

- Connection Type: **PPPoE (ADSL)** (dropdown menu)
- PPPoE Username: **PPPoE** (text input)
- PPPoE Password: **\*\*\*\*\*** (password input field)
- MTU: **1492** (text input, with '(546~1492)' in parentheses)
- Primary DNS Server: (empty text input, with '(Optional)' in parentheses)
- Secondary DNS Server: (empty text input, with '(Optional)' in parentheses)
- Hostname: (empty text input, with '(Optional)' in parentheses)
- Service Name: (empty text input, with '(Optional)' in parentheses)

At the bottom right of the form are 'APPLY' and 'CANCEL' buttons. On the right side, there is a blue 'Help' sidebar with the following text:

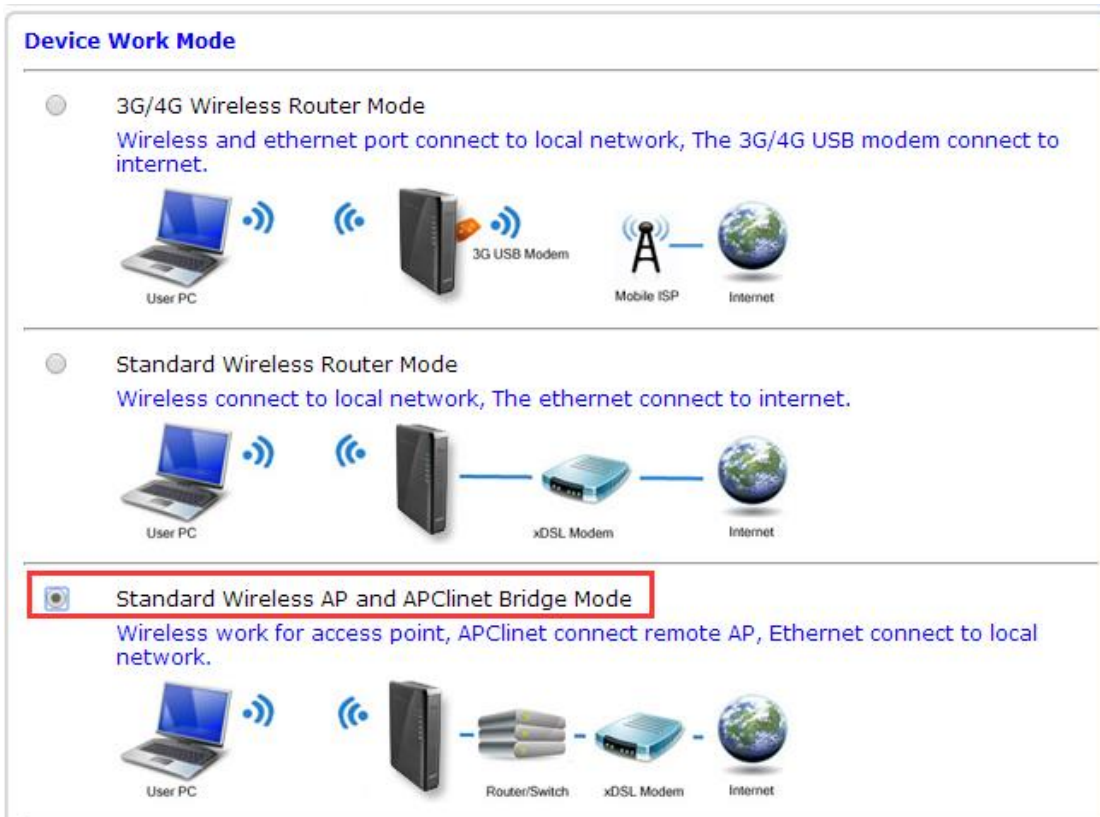
**Help**  
PPPoE Settings: Enter username and password provided by your ISP. MTU is the Maximum Transmission Unit of a network. You can setup DNS server address to obtain it manually or to use it provided by ISP. Server name is the name of your ISP and generally it's not required to fill in.

### 3. Wireless AP+Wireless client bridge mode

After we choose this mode, we can use CPE as Bridge

AP, Used for bridging the front level wireless router.

SET 192.168.0.100 as IP Address first, then connect LAN2 Port by cable, get into router manage UI, choose wireless AP+Wireless client bridge mode.















(1) Click on LAN Settings to search for wireless network,

Status	Mode	LAN	Wireless	Admin	Logout
<b>Remote-Wifi Setup</b>					
Enable AP-Client	<input checked="" type="checkbox"/>				
Remote AP SSID	<input type="text" value="Remote_AP_SSID"/>		<input type="button" value="SEARCH AP..."/>		
WiFi Status	Disconnected				
<b>Security</b>					
Security Mode	<input type="text" value="Open System"/>				
Encrypt Type	<input type="text" value="None"/>				

(2) You can see the valid wireless AP name in the current range and select the corresponding wireless AP.



刷新 连接 关闭					
	ChinaNet-5RPL [ 4c:09:b4:89:0f:1f ]	 WPA1PSKWPA2PSK/AES	Channel 10	 29%	<input checked="" type="checkbox"/>
	TP-LINK_3D76E6 [ d8:5d:4c:3d:76:e6 ]	 WPA1PSKWPA2PSK/AES	Channel 4	 10%	<input type="checkbox"/>
	84181711 [ e0:05:c5:2f:01:b8 ]	 WPA1PSKWPA2PSK/AES	Channel 4	 5%	<input type="checkbox"/>
	sfszp [ ec:88:8f:73:43:92 ]	 WPA1PSKWPA2PSK/AES	Channel 6	 0%	<input type="checkbox"/>

(3) Enter the selected wireless AP password, and you can bridge the first level wireless AP.

Status | Mode | LAN | Wireless | Admin | Logout

Remote-Wifi Setup

Enable AP-Client ☒

Remote AP SSID

Security

Security Mode

**WPA-PSK**

Encrypt Type ☐ TKIP ☒ AES ☐ TKIPAES

WPA-PSK Key

#### 4. Wireless AP+Wireless client mode

- Router management interface -- working mode -- wireless AP+ client mode, click confirm.
- Wireless-Connection--Choose ApClnet from the drop-down menu-Dynamic address (automatically obtained from DHCP server),Click on the search wireless network.The selection dialog box will automatically pop up all the wireless networks that are searched,Select the WIFI network you want to connect to, and check the Channel of the selected network, which is the Channel, and click connect.If the selected WIFI has a password, please enter the corresponding password in the wireless security below, and pay attention to whether the password is character type or hexadecimal.Click ok.
- Router management interface--Wireless-Setting--The corresponding Chan is selected in the wireless channel.

Status | Mode | **Wifi-WAN** | LAN | Wireless | Security | Server | Routing | Admin | Log

► **Setup** Break-Detection MAC-Clone DDNS

---

**WAN Setup**

Connection Type  **1**

MTU  (576~1500)

Primary DNS Server  (Optional)

Secondary DNS Server  (Optional)

Hostname  (Optional)

Remote AP SSID   **2**

WiFi Status

---

Security

Security Mode

**WPA-PSK**

Encrypt Type ☐ TKIP ☒ AES ☐ TKIPAES

WPA-PSK Key  **3**

## 4. Wireless security Settings

### 1. Wireless security

There are several types of wireless security modes, and different security modes can be selected as needed.

- Block up
- Open System
- WPA-PSK
- WPA2-PSK
- WPA1PSKWPA2PSK(WPA-PSK and WPA2-PSK mode)

### 2. Open System

The encryption type in this security mode is.

: None and WEP.

Status | Mode | Wifi-WAN | LAN | [Wireless](#) | Security | Server | Routing | Admin | Lo

Basic ▶ **Security** Advanced WPS Station List Mac Access

**Security**  
Security Mode   
Encrypt Type   
Encrypt Strength ☒ 64 bit ☐ 128 bit  
Default Key   
WEK Keys1    
WEK Keys2    
WEK Keys3    
WEK Keys4    

APPLY CANCEL

Description UI:

UI	Description
Encryption type	There are two types of encryption available: None and WEP. Select None to be unencrypted, and choose WEP to encrypt the Settings interface. As shown.
WEK Encryption length	There are two encryption lengths available: 64bit and 128 bit. The default value is 64bit.
The default key ID	You can set four keys at the same time, but only one key can be used in the present. This is the key you want to use today. The default value is key 1.
WEK key	You can choose to set the key type and set the key. There are two key types available: hexadecimal and character. Set different keys according to different encryption lengths and key types.

Key Setting:

64bit encryption: Ten hexadecimal or 5-digit characters.

128bit encryption: 26 digit hexadecimal or 13-digit characters.

### 3.WPA-PSK

This security mode is the wpa-psk encryption mode.

Status | Mode | Wifi-WAN | LAN | [Wireless](#) | Security | Server | Routing | Admin | Logout

Basic ▶ **Security** Advanced WPS Station List Mac Access

### Security

Security Mode WPA-PSK ▼

**WPA-PSK**  
Encrypt Type ☐ TKIP ☒ AES ☐ TKIPAES  
WPA-PSK Key 12345678  
(8-63 ASCII characters, or 64 hexadecimal characters <0-9 or a-f, A-F>)  
Rekey Interval 3600 second(s)

APPLY CANCEL

**Help**  
Security: Setup wireless AP security. use WPA2PSK, AES is good choice.

UI Interface Description:

UI	Description
Safe mode	WPA-PSK。
Encryption type	TKI or AES
WPA-PSK Key	Set the key, the legal key length is: 8-63 ASCII characters or 64 hexadecimal digits (0~9, a~f or a~f).
Key update interval	Set the key update time interval in seconds.

#### 4.WPA2-PSK

Status | Mode | Wifi-WAN | LAN | [Wireless](#) | Security | Server | Routing | Admin | Logout

Basic ▶ **Security** Advanced WPS Station List Mac Access

### Security

Security Mode WPA2-PSK ▼

**WPA-PSK**  
Encrypt Type ☐ TKIP ☒ AES ☐ TKIPAES  
WPA-PSK Key 12345678  
(8-63 ASCII characters, or 64 hexadecimal characters <0-9 or a-f, A-F>)  
Rekey Interval 3600 second(s)

APPLY CANCEL

**Help**  
Security: Setup wireless AP security. use WPA2PSK, AES is good choice.

UI Interface Description:

UI	Description
Safe mode	WPA2-PSK
Encryption type	TKIP、AES 和 TKIPAES。
WPA-PS KEY	Set the key, the legal key length is: 8-63 ASCII characters or 64 hexadecimal digits (0~9, a~f or a~f).
Key update interval	Set the key update time interval in seconds.

## 5. WPAPSKWPA2PSK

Status	Mode	Wifi-WAN	LAN	Wireless	Security	Server	Routing	Admin	Logout
<div>Basic</div> <div>Security</div> <div>Advanced</div> <div>WPS</div> <div>Station List</div> <div>Mac Access</div>									
<b>Security</b> Security Mode: WPA-PSK/WPA2-PSK <b>WPA-PSK</b> Encrypt Type: <input type="radio"/> TKIP <input checked="" type="radio"/> AES <input type="radio"/> TKIPAES WPA-PSK Key: 12345678 (8-63 ASCII characters, or 64 hexadecimal characters <0-9 or a-f, A-F>) Rekey Interval: 3600 second(s) <div>APPLY CANCEL</div>									
<b>Help</b> Security: Setup wireless AP security. use WPA2PSK, AES is good choice.									

## 5. Equipment management

### 1. Equipment function

UPnP protocol is used by Windows ME, 2000, XP, Win7 and other systems. If enabled, these operating systems will automatically find the router through the protocol.

UPnP (Universal Plug and

Play), It is mainly used to realize intelligent interconnection of equipment, without user participation and use of master server, which can automatically detect and control various network devices from various manufacturers.

With UPnP capability, the router can achieve NAT crossing: when the computer in the LAN passes.

Wireless router to the Internet communication, a wireless router can add, delete, NAT mapping table according to the need to automatically, so as to solve some of the traditional business (such as MSN voice, video) can't through NAT.

Status	Mode	Wifi-WAN	LAN	Wireless	Security	Server	Routing	Admin	Logout
<div>Management</div> <div>Time-setting</div> <div>Backup&amp;Restore</div> <div>Firmware-Upgrade</div> <div>Restart</div> <div>Factory-Defaults</div> <div>Password</div>									
<b>Equipment Function</b> <input checked="" type="checkbox"/> Enable UPNP <b>Remote</b> <input checked="" type="radio"/> Disable <input type="radio"/> Enable Port(1025~65535): 8080 <input type="checkbox"/> Enable Telnet <div> <input type="checkbox"/> Enable Telnet       </div>									
<b>Help</b> Enable remote, and enter 'http://WAN IP:8080' in your browser's address bar, then you can access your device. You can enable local or remote telnet server if you need.									

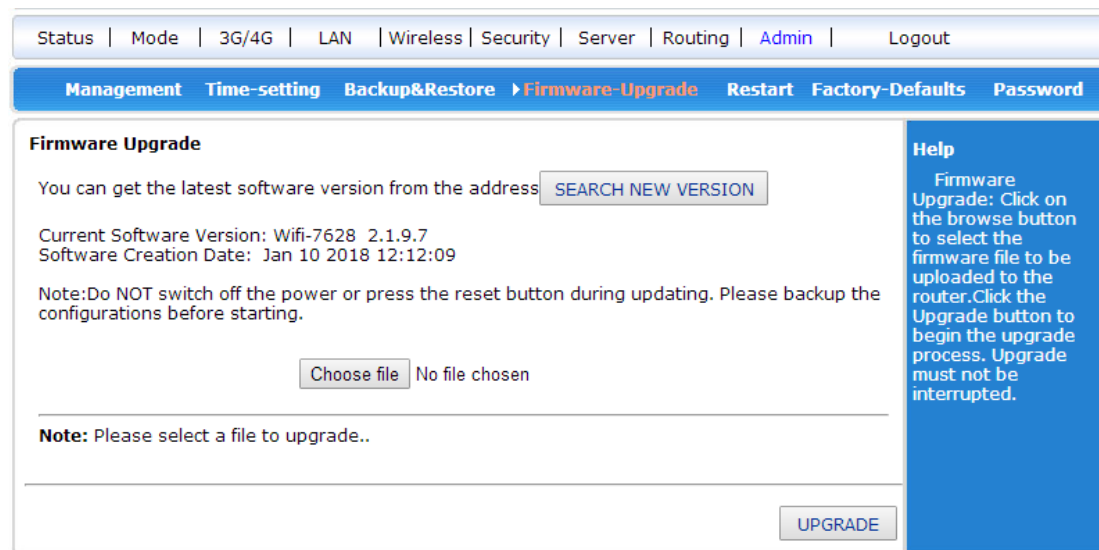
Check the single box, press < confirm > button, set the completion.

### 2. Software Upgrade

With software upgrades, you can load the latest version of the software to the router for more functionality and more stable performance.

**Steps to upgrade:**

- (1) Save the router upgrade file to the local computer.
- (2) Click on the > button to select the software that needs to be upgraded.
- (3) Click the upgrade > button to start the upgrade.



### 3. Ex-factory value

- The wireless router will be restarted during setup.

The restore to factory Settings will clear all Settings for the wireless router and revert to the initial state. This function is commonly used in equipment from one to another network environment of different network environment, the restoration of equipment to factory Settings, and then to reset, in order to more suitable for the current network.

Click < restore factory value > button, confirm and restore factory Settings.

### 4. Password management

The default user name/password of the wireless router is admin, the user name is not modified, and the password can be modified. To be on the safe side, it is recommended to change the password and keep the password information.

Setup steps are as follows:

- (1) enter the original password in the > text box of the original password; Enter a new password in the new password > text box and reenter the new password in the confirm password > text box to confirm.
- (2) click "confirm > button to complete the password modification."

## STATEMENT

NOTE: This equipment 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 equipment 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 equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment 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 equipment and receiver.
- Connect the equipment 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.

Has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

N'approuve aucune modification apportée à l'appareil par l'utilisateur, quelle qu'en soit la nature. Tout changement ou modification peuvent annuler le droit d'utilisation de l'appareil par l'utilisateur.

This device complies with Part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. The antenna should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet appareil est conforme aux limites d'exposition aux rayonnements de la IC pour un environnement non contrôlé. L'antenne doit être installée de façon à garder une distance minimale de 20 centimètres entre la source de rayonnements et votre corps. L'émetteur ne doit pas être colocalisé ni fonctionner conjointement avec à autre antenne ou autre émetteur.