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# WR11S 4G CPE

## User Manual



Internal Antenna



External Antenna (Optional)



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## 1、 Copyright and disclaimer

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## 2、 Introduction

WR11S is a 4G Indoor Customer Premise Equipment (CPE) provides superior wireless access performance and comprehensive routing capabilities to bring wireless broadband data and voice services to end-Users. It converts high-speed TDD/FDD signals to WiFi signals on the local area network (LAN). Wireless and wired devices, including mobile phones, laptops, tablets, and other smart devices, can access the CPE simultaneously.

## 3、 Product specification

### 3.1 WR11S CPE Features:

4G to WiFi, 4G to Lan

Support WAN/LAN/RJ11 Port

Support VOLTE

DL 150Mbps, UL 50Mbps

Support IPV4, IPV6

2.4G, WI-FI Rate: 300Mbps

Maximum number of access 32+1 devices

Support traffic management

Support TR069 PROTOCOL

Support WAN remote access

SSID broadcast function, support hidden WIFI

Support SMS sending/receiving and phone book

Support WPS, VPN, port mapping, watchdog

Support lock frequency band (lock cell)

SMA detachable antenna, can be connected to outdoor 4G antenna

### 3.1 Basic Specifications

Item	Description	Remarks
------	-------------	---------



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Dimensions	120mm (H) x 150mm (W) x 50mm (D)	Weight: About 170g
Power Supply	Input: Universal range 100V~240V AC Output: 12V DC/1A	No on/off button
USIM Slot	1.8V/3.0V USIM 2FF	
LED Indicators	Power LED×1 WPS/WLAN LED×1 LAN LED×1 LTE Internet LED×1 Signal LED×3	
WPS Button	WPS Button×1	
Reset Button	Tactile button. Long press over 10s to restore the factory settings	
Ethernet Port	RJ45×1, 10/100M auto-sensing, LAN/WAN	
Voice Port	RJ11×1	
USB Port	USB 2.0×1	Debug, upgrade, and capture device logs
Operating Temperature	-20°C ~ 60°C	
Storage Temperature	-25°C ~ 70°C	
Operating Humidity	5% ~ 95%	

### 3.2 4G/3G/2G Technical Specifications

Item	Description
Wireless Access Technology	TD-LTE/FDD/WCDMA/TD-SCDMA/GSM/GPRS/EDGE/EGPRS
Bands(Max)	<p>Four standard configurations(Optional):</p> <p><b>WR11S-Xce(Asia):</b> LTE:B1/B3/B5/B8/B38/B39/B40/B41;WCDMA:B1/B8;TD-SCDMA:B34/B39</p> <p><b>WR11S- P (Asia):</b> LTE:B1/B2/B3/B5/B7/B8/B28A/B28B/B38/B39/B40/B41;WCDMA:B1/B2/B5/B8;TD-SCDMA:B34/B39;GSM850/GSM900/GSM1800/GSM1900</p> <p><b>WR11S-E (Europe &amp; Africa):</b> LTE:B1/B2/B3/B5/B7/B8/B20/B28A/B34/B38/B39/B40/B41;WCDMA:B1/B2/B5/B8;TD-SCDMA:B34/B39;GSM850/GSM900/GSM1800/GSM1900</p> <p><b>WR11S-A (Latin America):</b> LTE:B2/B3/B4/B5/B7/B8/B28A/B28B/B66;WCDMA:B2/B4/B5/B8;GSM850/GSM900/GSM1800/GSM1900</p> <p><b>More bands can be customized.</b></p>



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Data Rate	LTE FDD: Max 150Mbps (DL) / Max 50Mbps (UL) ; LTE TDD: Max 130Mbps (DL) / Min 35Mbps (UL) ; WCDMA: Max 21Mbps (DL) / Max 5.76Mbps (UL) ; TD-SCDMA: Max 4.2Mbps (DL) / Max 2.2Mbps (UL) ; EDGE: Max 236.8kbps (DL) / Max 118kbps (UL) ; GPRS: Max 85.6kbps (DL) / Max 85.6kbps (UL) ; GSM: Max 9.6kbps (DL)/ Max 2.7kbps (UL) ;
Receive Sensitivity	Compliance with 3GPP standard
MAX Output Power	LTE FDD: 23dBm±2dB; LTE TDD: 23dBm±2dB; WCDMA: 24dBm+1dB/-3dB; TD-SCDMA: 24dBm+1dB/-3dB; GSM B5/8: +33 ±2dBm(Power class 4); GSM B2/3: +30 ±2dBm(Power class 1);
Antenna Type	Internal Antenna/External Antenna
Antenna Gain	2~3dBi

### 3.3 WiFi Specifications

Item	Description
Standard	IEEE 802.11b/g/n
Channel Bandwidth	20MHz,40MHz
Frequency	2.4G
TXRX	2T2R
MIMO	DL:2X2
Peak Rate	802.11b:11Mbps 802.11g:54Mbps 802.11n:300Mbps
Modulation	DSSS/CCK,OFDM
Receive Sensitivity	-85dBm in 802.11b -70dBm in 802.11g -66dBm in 802.11n
MAX Output Power	17dBm in 802.11b 14dBm in 802.11g 13dBm in 802.11n
Antenna Type	Internal Antenna



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Antenna Gain	1.5~2dBi
Active User	32

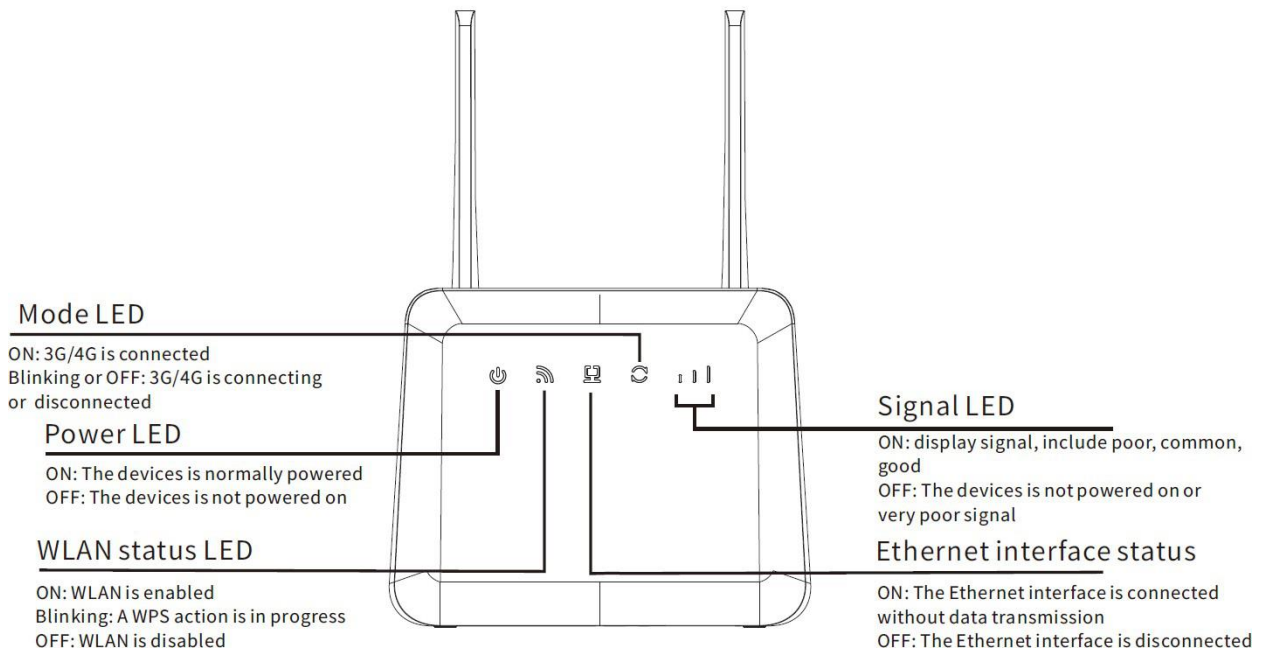
### 3.4 Software Specifications

Item	Description
Language Support	English
IP Protocol	IPv4/IPv6
Voice	VOLTE/CSFB
SIM Management	PIN Management, SIM Lock
Network Connection Management	Auto/Manual
LTE Scan Mode	Full band scan , Frequency Lock ,PCI Lock
WLAN	WPS
VPN	<ul style="list-style-type: none"> <li>• L2TP</li> <li>• PPTP</li> </ul>
NAT	<ul style="list-style-type: none"> <li>• Port forwarding</li> <li>• DMZ</li> </ul>
Firewall	<ul style="list-style-type: none"> <li>• IP/MAC/URL Filter</li> <li>• Access Control</li> <li>• SYN Flood</li> <li>• TCP port scan</li> <li>• Death of Ping</li> </ul>
Network Management	<ul style="list-style-type: none"> <li>• TR069</li> </ul>
Diagnostics	<ul style="list-style-type: none"> <li>• TCP Dump</li> <li>• Ping</li> <li>• Trace route</li> </ul>
Statistics	<ul style="list-style-type: none"> <li>• LTE Status</li> <li>• Connection Time</li> <li>• System Up Time</li> <li>• Device Status</li> <li>• DHCP Client List</li> <li>• WiFi Station List</li> <li>• LTE Status</li> <li>• Firewall Status</li> </ul>

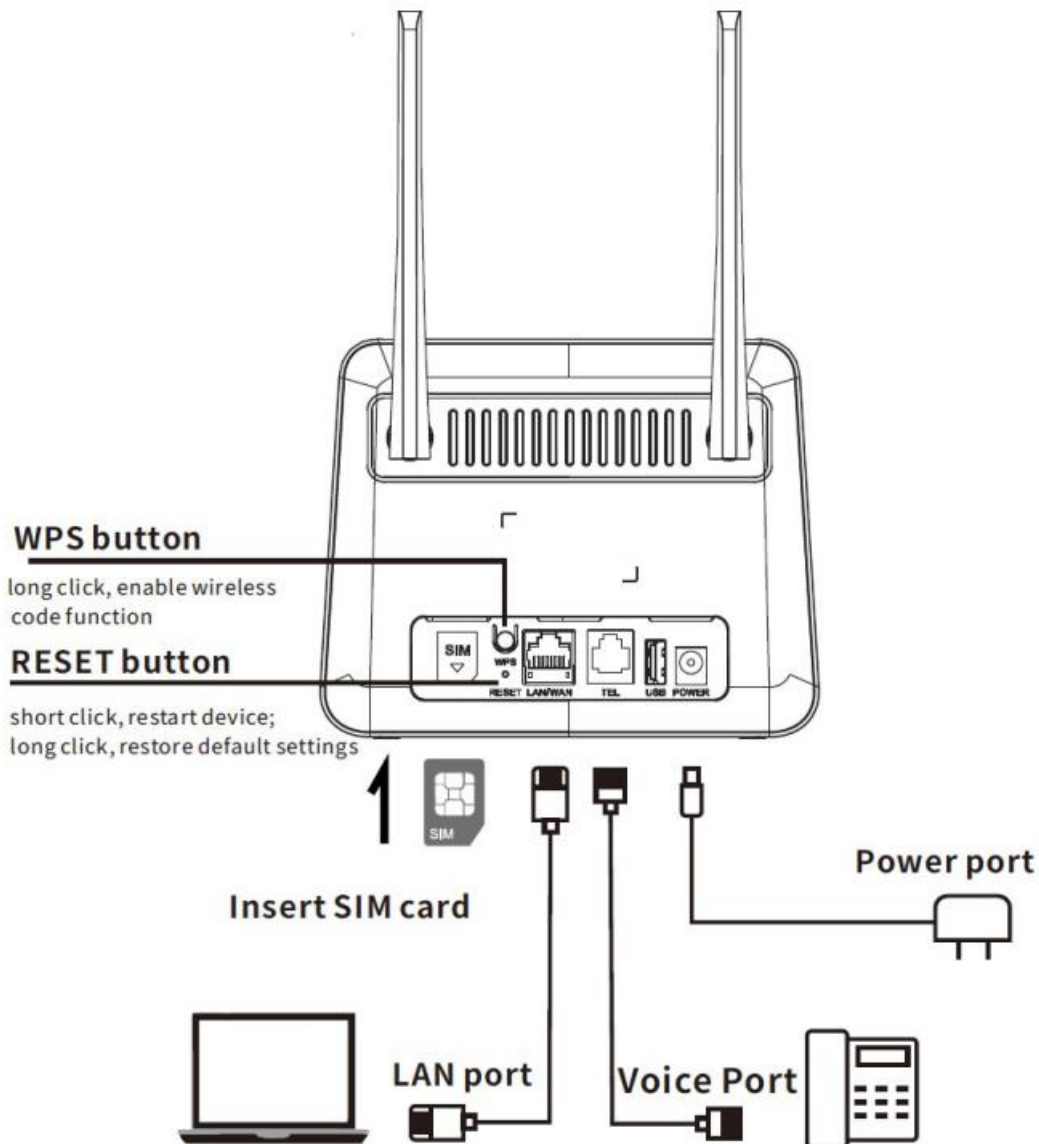
Maintenance	<ul style="list-style-type: none"> <li>• Date &amp; Time setting</li> <li>• Reboot</li> <li>• Restore factory settings</li> <li>• Restore / Back up configuration file</li> <li>• Firmware upgrade locally/OTA (over the air)</li> </ul>
System Log	<ul style="list-style-type: none"> <li>• Operating Log</li> <li>• Run-time Log</li> <li>• Filter/Select/Display/Export Log</li> </ul>

## 4、Appearance description

### 4.1 LED Description



### 4.2 Interface and Button Description



## 5. Instruction for WEB UI

In order to meet User's operation and configuration, WR11S device provide a powerful and wonderful WEBUI as device's interface, and this section show how to configure CPE functionality on WEB UI.

### 5.1 Login and Logout

Open a browser and input the default gateway IP address (mask on device body label), and enter the navigation page.





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[Login](#) [English](#) ▼

#### Internet Status

USIM Card Status	READY
Operator	China Telecom
IPv4 Status	Connected

#### Mobile Network

Total	332.96MB
Upload	284.79MB
Download	48.17MB
Uplink Rate	0b/s
Downlink Rate	0b/s
Network Connection Duration	17Min:14Sec

#### Mobile Network Information

PLMN	46011
Operator	China Telecom
Network Mode	LTE
Current Access Band	Band1
Current Access Arfcn	100
Current Camping Cell PCI	407
Globe ID	126308865
Cell ID	1
Enodeb ID	493394
RSRQ	-8 dB
RSRP/RSCP	-82 dBm
RSSI	--
SINR	8

#### LAN/WLAN Status

Current LAN User	1
Current WLAN User	0

#### Network Port Working Mode

Current Working Mode	LAN Mode
----------------------	----------

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On the navigation page, User click <login> button to enter the login page. User need to input correct Username and password to login the Home page, the default Username and password is admin. If User need to modify the login password, User can go to the Advance->System Settings -> Account Management page and modify it. Home page like as below:



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FDD\_LTE China Telecom   
Current Account: admin [Logout](#) [English](#)

[Home](#) [Internet](#) [Upgrade](#) [Phonebook](#) [SMS](#) [Advance](#) [Quick Setup](#)

### Internet

#### Internet Connection

**Connection Status**  
Connected

**Mobile Network** [Details](#)

**Network Operator**  
China Telecom

**Cellular Network Mode**  
FDD\_LTE

**Data Connection Mode**  
FDD\_LTE

**APN Name**  
ctlte

**IPv4 Address**  
10.20.41.48

**IPv6 Address**  
fe80::846d:55ff:fea0:49c2

**Current Access Band**  
Band1

**Current Access Arfcn**  
100

**Current Camping Cell PCI**  
407

**RSRP/RSCP**  
-83 dBm

**RSSI**  
--

**SINR**  
5

### Router

#### Router Information

**Router LAN IP**  
192.168.150.1

**IMEI**  
865190042057813

**ICCID Number**  
89860319957550432180

**IMSI Number**  
460110417740781

**Phone Number**  
--

**Router Network Mask**  
255.255.255.0

**Router MAC**  
7C:21:D8:00:1B:B0

**Router Run Time**  
25Min:52Sec

**Software Version**  
ML7820+\_C10\_6PEXOX\_E1\_04007

**Hardware Version**  
ML7820+\_V8.0

**WebUI Version**  
CE10\_V1.1.6

**Network Port Working Mode**  
 WAN Mode  LAN Mode [Apply](#)

### Home Network

#### Connected Devices

1

#### Wireless

**WIFI Connect**  
0

**WIFI Status**  
Enable

**Wireless Network**  
CE10\_01B91

**Security Mode**  
WPA2PSK

**Channel**  
Auto

**DHCP Server**  
Enable

#### Traffic Statistics

**Sent Data**  
284.6MB [Clear](#)

**Received Data**  
48.18MB

**Sent Speed**  
0b/s

**Received Speed**  
0b/s

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User can click <Logout> to logout.

FDD\_LTE China Telecom   
Current Account: admin [Logout](#) [English](#)

[Home](#) [Internet](#) [Upgrade](#) [Phonebook](#) [SMS](#) [Advance](#) [Quick Setup](#)

## 5.2 Function Page Description

The WEBUI has divided into seven groups, with different groups representing different functions. As shown in figure:



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- Home
- Internet
- Upgrade
- Phonebook
- SMS
- Advance
- Quick Setup

- Home      Display device basic information
- Internet      Configure wireless and wired connections
- Upgrade      Upgrade device firmware
- Phonebook      Manage contact information on device and SIM card
- SMS      Manage SMS messages on devices and SIM card, and send SMS messages
- Advanced      Network configuration management and device management
- Quick Setup      User quick configuration management

### 5.3 Device Information and Status

FDD\_LTE China Telecom

Current Account: admin [Logout](#) English ▾

- Home
- Internet
- Upgrade
- Phonebook
- SMS
- Advance
- Quick Setup

#### Internet

##### Internet Connection

**Connection Status**  
Connected

**Mobile Network** [Details](#)

**Network Operator**  
China Telecom

**Cellular Network Mode**  
FDD\_LTE

**Data Connection Mode**  
FDD\_LTE

**APN Name**  
ctlte

**IPv4 Address**  
10.20.41.48

**IPv6 Address**  
fe80::846d:55ff:fea0:49c2

**Current Access Band**  
Band1

**Current Access Arfcn**  
100

**Current Camping Cell PCI**  
407

**RSRP/RSCP**  
-83 dBm

**RSSI**  
--

**SINR**  
5

#### Router

##### Router Information

**Router LAN IP**  
192.168.150.1

**IMEI**  
865190042057813

**ICCID Number**  
89860319957550432180

**IMSI Number**  
460110417740781

**Phone Number**  
--

**Router Network Mask**  
255.255.255.0

**Router MAC**  
7C:21:D8:00:1B:B0

**Router Run Time**  
25Min:52Sec

**Software Version**  
ML7820+\_C10\_6PEXOX\_E1\_04007

**Hardware Version**  
ML7820+\_V6.0

**WebUI Version**  
CE10\_V1.1.6

##### Network Port Working Mode

WAN Mode  LAN Mode Apply

#### Home Network

##### Connected Devices

1

##### Wireless

**WIFI Connect**  
0

**WIFI Status**  
Enable

**Wireless Network**  
CE10\_01B91

**Security Mode**  
WPA2PSK

**Channel**  
Auto

##### DHCP Server

Enable

##### Traffic Statistics

**Sent Data**  
284.8MB Clear

**Received Data**  
48.18MB

**Sent Speed**  
0b/s

**Received Speed**  
0b/s

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Home page displays the current mobile network information and device' s status.

Home->Internet Connection, Click <ON> or <OFF> to connect or disconnect the network.

Home->Mobile Network->Details, Show the mobile network detailed parameters.

Home->Router->Router Information, Show the device detailed parameters, like gateway IP,IMEI,SIM ICCID,SIM IMSI, Router MAC, Hardware and Software version.

Home->Network Port Working Mode, Network port operation mode can be configured. LAN mode can be used as router to assign IP address to devices. The WAN mode is assigned IP as the terminal device connection router.

Home->Home Network->Connected Device, Enter the access device statistics page and check the current access device information.

Home->Home Network->Wireless, Enter the WLAN device page to configure WLAN functions.

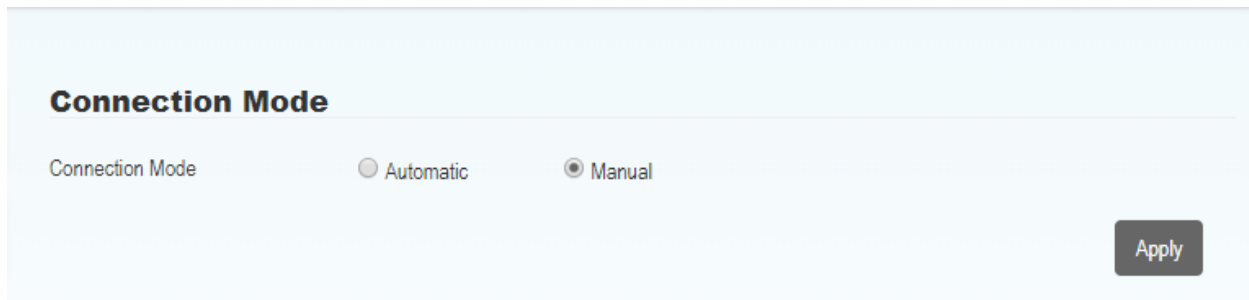
Home->Home Network->DHCP Server, Enter the DHCP service configuration page.

Home->Home Network->Traffic Statistics, Enter traffic statistics page, User can open/close traffic statistics and set the traffic reminder threshold.

## 5.4 Internet

### 5.4.1 Configure Connection Mode

Internet->Connection Mode, User can configure the device to dial up the Internet automatically or manually.



Select "Automatic" or "Manual" , and then click <Apply> and confirm <yes> to save the configuration and restart the device. After device restart, the configuration takes effect.

### 5.4.2 Configure search network mode

Internet ->Network Selection, Users can configure the device search available network automatically or manually and configure network access mode.

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### Network Selection

Network Selection

Automatic  Manual

Automatic

Apply

Automatic: The device will search available network automatically, click <Apply> to save the configuration and take effect.

Manual: The device will search available network manually, click <Search> to search network and register network manually.

#### 5.4.3 Mobile Network Detailed Information

Internet -> Mobile Network Parameters, This page displays the current mobile network detailed parameters and the obtained IP information.

#### 5.4.4 Configure APN profile

Internet->APN , User could to configure the Access Point Name(APN) on this page.

"Automatic" is selected by default. After the device recognizes the SIM card operator information, it selects the appropriate APN parameters from the APN list of device preset for network authentication.

Users could also choose "manual" mode to add a custom APN configuration, which can also be set to the default APN configuration.

Add APN configuration steps in "manual" mode:

- (1). Click <Add New > button.
- (2). Select "PDP type" (required).
- (3). Enter "Profile name", enter "APN", and select "Authentication " (required and required).
- (4). Enter "Username" and "Password" (optional).
- (5). Click < apply > and wait for the page pop-up prompt to succeed.

If User want to configure the custom APN as the default profile, User need to select the other configuration in the "Profile" drop-down box, then click < Set as default >, and wait for the page pop-up box to prompt successfully.

### APN

Current APN: Default

Mode:  Auto  Manual

Profile:

PDP Type:

Profile Name \*

APN \*

Authentication:

User Name

Password

Dial No.

The custom APN configuration can be deleted in "Manual" mode. Select the non-default configuration in the "Profile" drop-down box, then click < delete >, confirm <Yes> and the page prompt will be successful.

Note: The default APN configuration cannot be deleted at "Manual" mode. User need to change it to a non-default configuration and then delete it.

#### 5.4.5 Multiple APN settings

Activate WAN multiple dialing. Some application data is transmitted on a specific bearer link.

APN-2    APN-3    **APN-4**

APN     Enable     Disable

**Apply**

---

**APN-4**

Current APN

PDP Type   

APN \*   

Authentication   

User Name   

Password   

Business Flow   

**Apply**

#### 5.4.6 Lock Lte Band

Network ->LTE Band Lock, User could lock or unlock the lte network frequency on this page.

Lock Band Step:

- (1). Select the frequency band which needs to be locked
- (2). Click <Apply>, confirm that <Yes>, the device will restart, new configuration takes effect. After device restart, and the device will re-search the network and host the network.

#### 5.4.7 Lock Lte Uarfcn and PCI

Internet->LTE PCI Lock, User could lock or unlock Lte Uarfcn and PCI on this page.

Lock:

- (1). Select "Lock" mode.
- (2). Input "Uarfcn" and "PCI" information.
- (3). Click <Apply> to lock.

Unlock:

- (1). Select "Unlock" mode;
- (2). Click <Apply> to unlock.

Click < Apply >, confirm that < Yes >, the device will restart, new configuration takes effect. After device restart, the device will re-search the network and re-register the network.

#### 5.4.8 WAN Settings

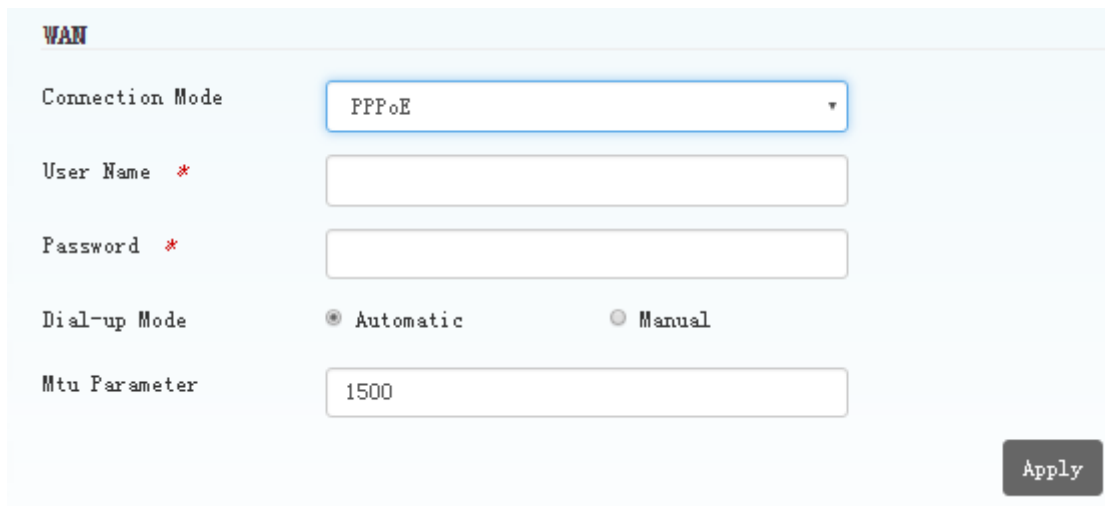
Internet->WAN, User can select "Connection Mode" Option such as PPPoE,Static IP,Dynamic IP,Auto. The default configuration is "Auto."

AUTO: Access Internet via dynamic IP address or PPPoE. User may ask User network provider for PPPoE Username and password.



The screenshot shows the WAN configuration interface. The 'Connection Mode' dropdown menu is set to 'Auto'. The 'User Name' and 'Password' fields are empty. The 'Dial-up Mode' has 'Automatic' selected. The 'Mtu Parameter' is set to 1500. An 'Apply' button is visible in the bottom right corner.

PPPoE: Access Internet. User may ask User network provider for PPPoE Username and password.



The screenshot shows the WAN configuration interface. The 'Connection Mode' dropdown menu is set to 'PPPoE'. The 'User Name' and 'Password' fields are empty. The 'Dial-up Mode' has 'Automatic' selected. The 'Mtu Parameter' is set to 1500. An 'Apply' button is visible in the bottom right corner.

Dynamic IP: Access Internet via dynamic IP address.



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**WAN**

Connection Mode

Dial-up Mode  Automatic  Manual

Mtu Parameter

Static IP: Access Internet via static IP address. Please set IP address, subnet mask, default gateway, primary and secondary DNS.

**WAN**

Connection Mode

IP Address \*

Subnet Mask \*

Default Gateway \*

Primary DNS Server \*

Secondary DNS Server \*

Dial-up Mode  Automatic  Manual

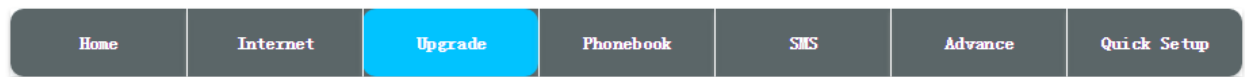
Mtu Parameter

## 5.5 Upgrade

Upgrade->Software Upload and Upgrade->Browse, User can select the correct upgrade package to upgrade device firmware.

User can choose the upgrade file on the local computer, upgrade the device software to the selected version, complete the system repair and optimization.

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### Software Upload & Upgrade

No file selected...

#### Upgrade Step:

Before upgrading, check the current software version with the local upgrade package to ensure consistency.

**Software Version**  
WR11S\_XHS\_6ATX0X\_T1\_37002

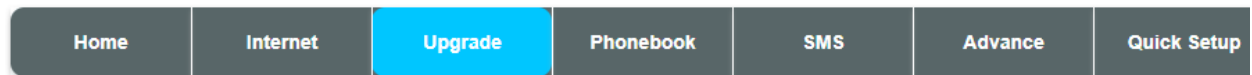
**Hardware Version**  
WR11S\_V6.0

**WebUI Version**  
WR11S\_V1.1.9

> WR11S firmware >

名称
ML7820+_XHS_6ATXAX_T01_37002(web)
ML7820+_XHS_6ETXAX_T01_37002(web)
ML7820+_XHS_6PTXAX_T01_37002(web)

(1) . Click <Browse> to select the local upgrade package. The file name "update" cannot be modified.



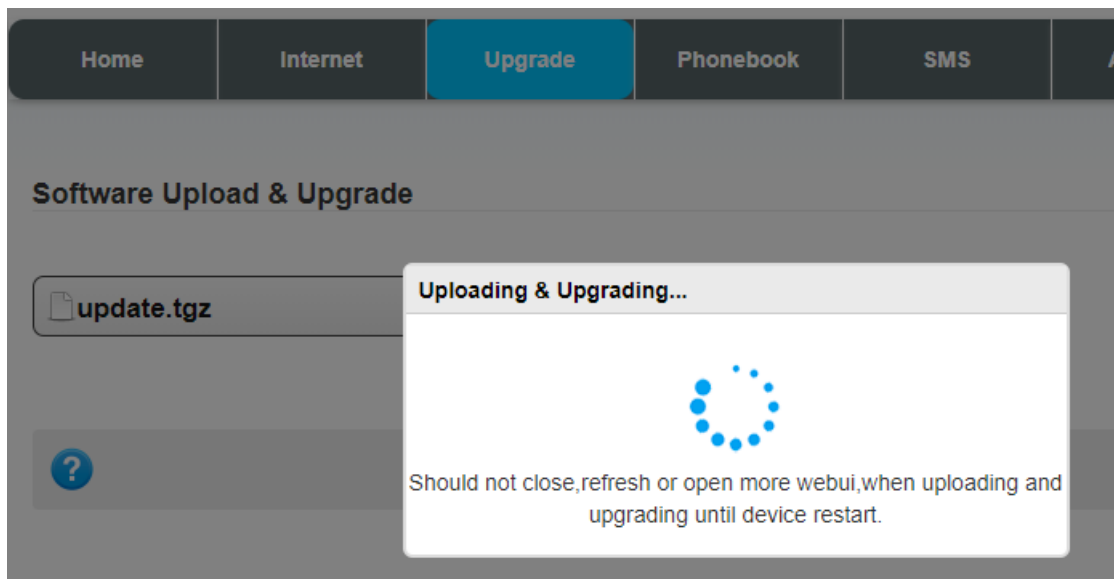
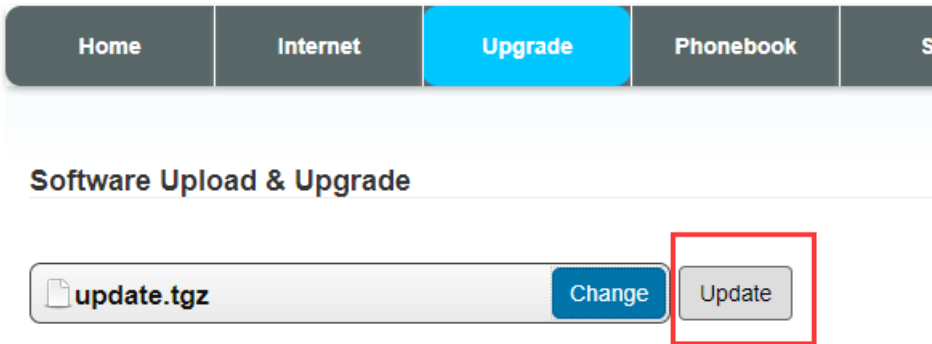
### Software Upload & Upgrade

No file selected...

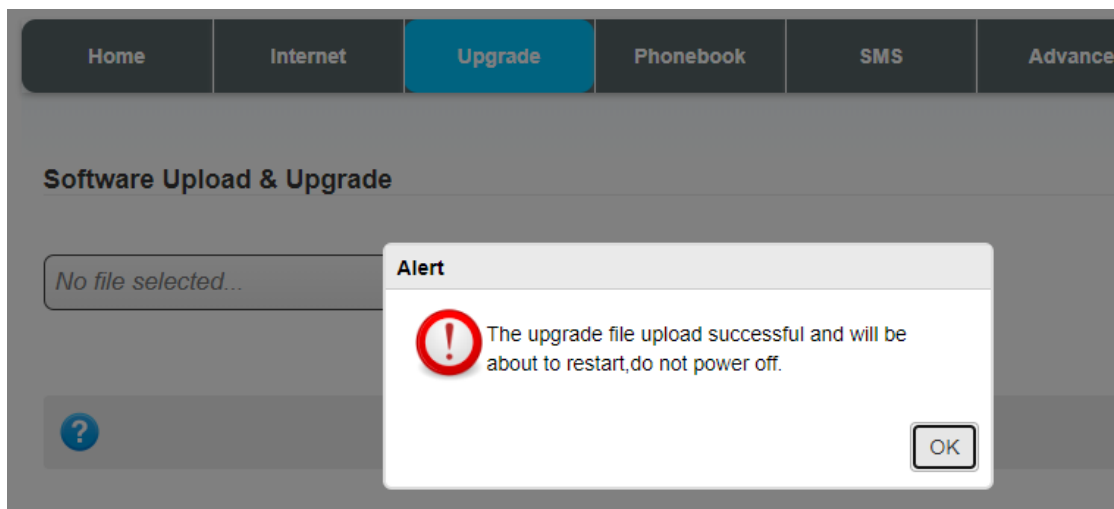
The screenshot shows a Windows File Explorer window with the address bar set to "ML7820+\_XHS\_6ATXAX\_T01\_37002". The search bar contains "ML7820+\_XHS\_6ATX...". The file list shows a single file named "update" with a WinRAR icon, a modification date of "2020/7/24 星期...", a type of "WinRAR 压缩文件", and a size of "15,389 KB". The file "update" is selected and highlighted in blue. The "文件名(N):" field at the bottom contains "update".

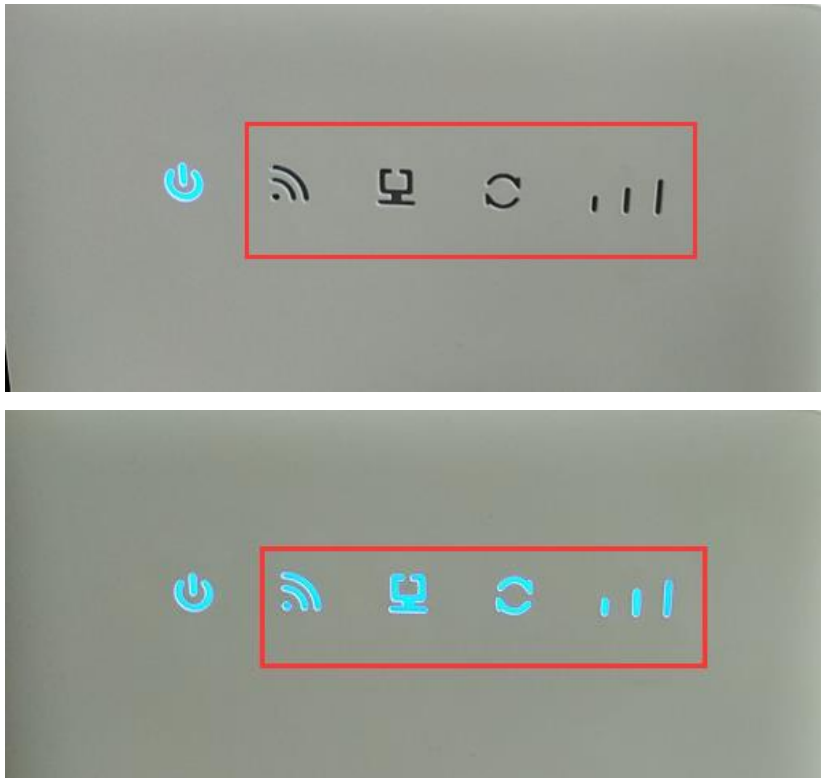
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(2) . Click <Update> to upload upgrade package and start upgrade process.



(3) . It prompts that the upgrade is successful and the device restarts automatically. Please do not power off. At this time, you can see that the device indicator is off and then on again.



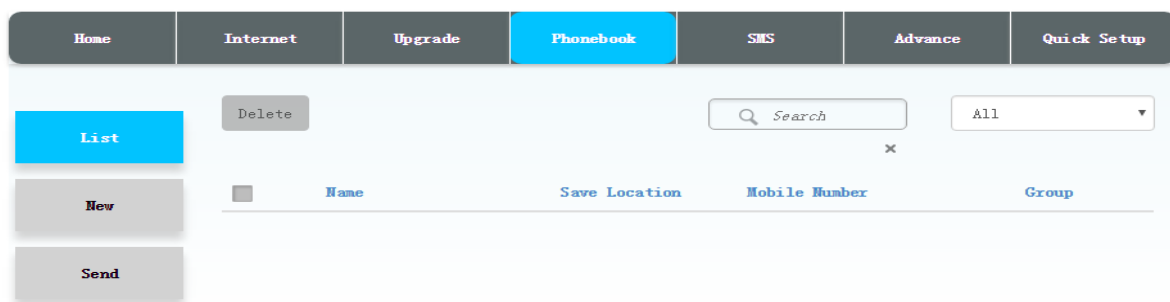


After the upload is complete, device will verify the integrity of the files automatically. If the verification result is failure, there have a pop dialog on upgrade page.

If the verification result is successful, the device will be upgrade automatically and restart once during the upgrade process.

**Note: The whole upgrade process lasts 6~7 minutes, Please do not shutdown during upgrading.**

## 5.6 Phonebook



Phonebook->List, User can modify and delete contact information which stored in the device and SIM card.

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Phonebook ->New, User can add a new contact information, click <Save> button to finish.

Phonebook ->Send, User can send new SMS on this page.

Add a new contact:

- (1). Click <New>;
- (2). Input necessary information and choose "Save Location" and "Group" ;
- (3). Click <Save> to complete.

**New**

Save Location

Name \*

Mobile Number \*

Home Number

Office Number

Email

Group

## 5.7 SMS

Home Internet Upgrade Phonebook **SMS** Advance Quick Setup

Number	Content	Time
--------	---------	------

SMS->Device, User can create and delete short message which saved on the device side.

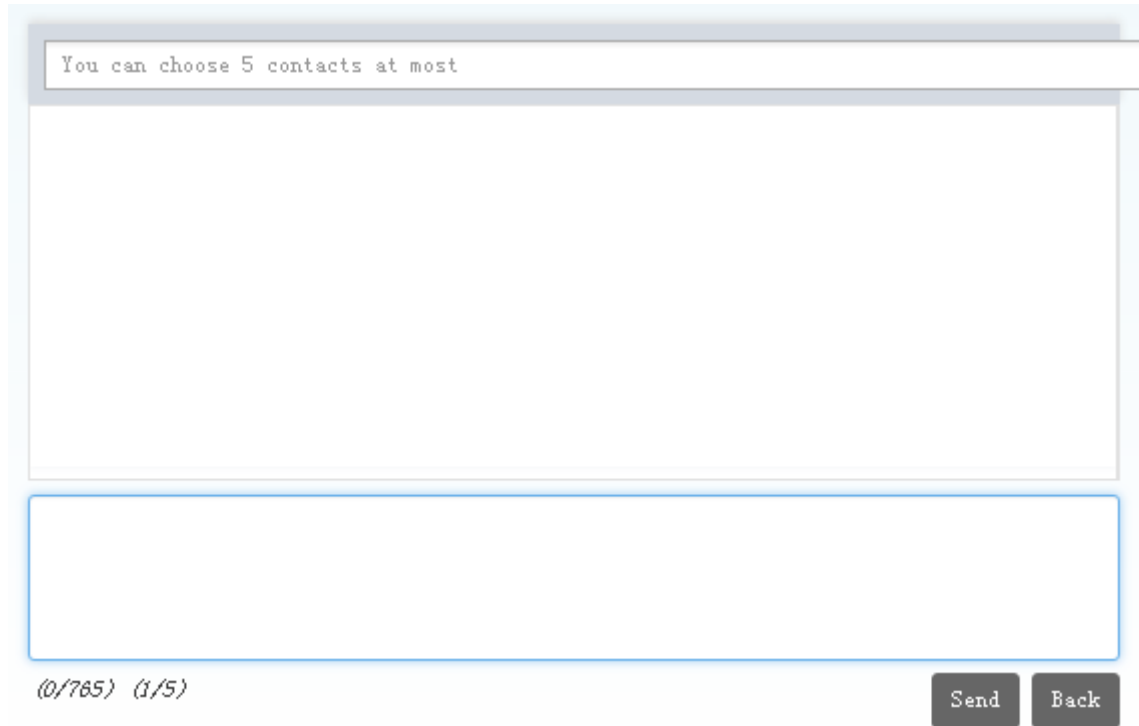
SMS->SIM Card, User can create and delete short message which saved on the sim/usim card side.

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SMS->Settings, User can modify the message center number and open/close short message deliver report.

Send message step:

- (1). Click <New>.
- (2). Input number or choose contacts from phonebook.
- (3). Input message contain.
- (4). Click <Send> to send.



## 5.8 Advance Setting

### 5.8.1 WAN Settings

#### 5.8.1.1 WAN Basic Settings

Advance->WLAN Settings->WLAN Basic Settings.

Users can Enable/Disable WLAN and modify WIFI SSID, security mode, WIFI password and the maximum number of connections.

WLAN  Enable  Disable Apply

---

**WLAN Basic Settings**

Network Name (SSID) \*

SSID Broadcast

Security Mode

Pass Phrase \*

Display Password

Max Station Number

Apply

The default wlan password is "5A6b7C8d" .

If select to enable "SSID Broadcast" , the device will broadcast SSID. Other wireless devices will discover and connect to this device.

Click<Apply> and confirm <Yes> to save the configuration and take effect.

#### 5.8.1.2 WPS Settings

Advance->WLAN Settings->WPS. WPS (Wi-Fi Protected Setup) is a standard that allows users to set up a wireless network in an easy and secure way without specific configuration, such as: SSID, security mode and password.

WLAN  Enable  Disable Apply

---

**WPS Settings**

SSID

WPS Settings \*  PIN

PBC

Apply

PIN: User need to enter the PIN that is generated by the access client.

PBC: User can select the PBC (Push Button Configuration) on the web page or hold the WPS button for 3-4

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seconds on the device to enable WPS function.

The device will wait for receiving the access request of wireless access client within 2 minutes.

Click<Apply> and confirm <Yes> to save the configuration and take effect.

### 5.8.1.3 Advanced Settings

Advance->WLAN Settings->Advanced Settings. User can select WIFI network mode, Channel bandwidth, Country/Region Code and Frequency (Channel).



WLAN  Enable  Disable Apply

**Advanced Settings**

Band Selection 2.4G

Network Mode 802.11 b/g/n

Channel Bandwidth 20MHz/40MHz

Country/Region Code 中国

Frequency (Channel) Auto Apply

Click<Apply> and confirm <Yes> to save the configuration and take effect.

## 5.8.2 Security Settings

### 5.8.2.1 Firewall

Advance->Security Settings->Firewall, User can enable/disable DDOS,TCP/PORT Scan,Pinf of Death. Click <Apply> to save the configuration and take effect.

### 5.8.2.2 Port Filtering

Advance->Security Settings->Port Filtering. Add and Delete MAC/IP/Port Filtering Rules.

User can set firewall policies to protect User network from virUsers, worms and malicious activities on the Internet.

Only when filtering is enabled, the filter policy is available.



### MAC/IP/Port Filtering Settings

IP Settings     IPv4     IPv6

MAC Address        (e. g., 00:1E:90:FF:FF:FF)

Source IP Address   

Dest. IP Address   

Protocol     ▼

Action     Accept     Drop

Comment \*   

Click <Apply> to save the configuration and take effect.

#### 5.8.2.3 Port Mapping

Advance->Security Settings->Port Mapping. User can Enable and Disable this function, Add and Delete Port Mapping Rules.

### Port Mapping Settings

Src. Port \*        (1~65000)

Dest. IP Address \*        (e. g., 192.168.0.101)

Dest. Port \*        (1~65000)

Protocol     ▼

Comment \*   

Input source port, dest IP address, dest port and select protocol, Click <Apply> to save the configuration and take effect.

#### 5.8.2.4 Port Forwarding

Advance->Security Settings->Port Forwarding. User can Enable and Disable this function, Add and Delete Port Forwarding Rules.

### Port Forwarding Settings

IP Address \*  (e. g., 192.168.0.101)

Port Range \*  -  (1~65535)

Protocol

Comment \*

Input IP address and Port range,select protocol, Click <Apply> to save the configuration and take effect.

#### 5.8.2.5 URL Filtering

Advance->Security Settings->URL Filtering. User can add and delete Port Filtering Rules.

URL \*

#### 5.8.2.6 UPnP

Advance->Security Settings->UPnP, User can enable or disable UPnP on this page.

Universal Plug and Play (UPnP) is a set of networking protocols that allows networked devices, such as PC, printers, Internet gateways, Wi-Fi access points and mobile devices, to seamlessly discover each other's presence on the network and establish functional network services for data sharing, communications, and entertainment.

#### 5.8.2.7 DMZ

Advance->Security Settings->DMZ, User can configure DMZ address, enable or disable DMZ on this page.

DMZ Settings  Enable  Disable

IP Address \*

If a terminal device can't run network applications via this device, please enter IP address of the terminal device in the entry box when DMZ is enabled.

### 5.8.3 System Settings

### 5.8.3.1 Router Management

Advance->System Settings->Router Management, User click <Restart Device>,confirm <Yes>,device will reboot.

Advance->System Settings->Router Management,User click <Reset Factory Settings>, confirm<Yes> ,device will reboot and restore all configuration to factory state..

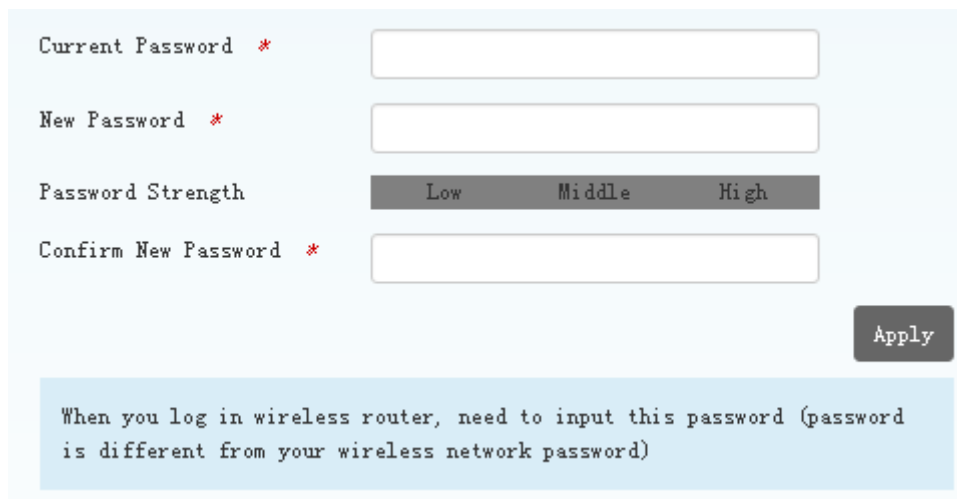
### 5.8.3.2 Account Management

Advance->System Settings->Account Management, User can change login password on this page.

The password can't be empty and must contain at most 32 characters.

Change Password step:

- (1). Input current password code.
- (2). Input new password twice.
- (3). Click <Apply> to complete.



The screenshot shows a 'Change Password' form with the following fields and controls:

- Current Password \***: A text input field.
- New Password \***: A text input field.
- Password Strength**: A horizontal bar with three segments labeled 'Low', 'Middle', and 'High'. The 'Low' segment is currently selected.
- Confirm New Password \***: A text input field.
- Apply**: A button located at the bottom right of the form.

Below the form, there is a light blue informational box containing the text: "When you log in wireless router, need to input this password (password is different from your wireless network password)".

Default Password is admin.

### 5.8.3.3 PIN Management

Advance->System Settings->PIN Management.User can apply pin security settings in PIN Management to prevent unauthorized User of the SIM, USIM,and UIM card.



The screenshot shows the 'PIN Management' interface with the following elements:

- PIN Status**: Two radio button options, 'Enable' (which is selected) and 'Disable'.
- Change PIN**: A button located to the right of the 'Enable' radio button.
- Current PIN \***: A text input field.
- Attempts Left: 3**: A label indicating the number of remaining PIN attempts.
- Apply**: A button located at the bottom right of the interface.

Enable/Disable PIN step:

- (1). Make sure network connection is disconnect;if not,disconnect manually;

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(2). Select "Enable" or "Disable" ;

(3). Input current SIM PIN code;

(4). Click <Apply> to complete.

If enable PIN, User may need to enter PIN when the device is powered on. If disable PIN, no PIN is required.


Change SIM PIN code step:

(1). Must be enable PIN function, follow Enable/Disable PIN step;

(2). Click <Change PIN>;

(3). Input current PIN code and new sim pin code twice;

(4). Click <Apply> to complete.



**Note:** Just have three time to operate SIM PIN ,please be carefully.

#### 5.8.3.4 Export and Import Configuration Management

Advance->System Settings->Configuration Management.

The local profile can be imported to the device and restart to take effect. The User basic profile can be exported to the local folder.



Import: Click <Select the file> to select correct local file and click <upload> to import User profile.

Export: Click <Export configuration file> to export User profile.

#### 5.8.3.5 VPN

Advance->System Settings->VPN, Users can choose L2TP or PPTP for VPN security connection.

Choose "Connection Type", select "Enable", input the necessary VPN parameters and click to active VPN service.

If the VPN connection is successful, the "Connection status" will become connected, otherwise it means no connection or connect failed.

### VPN

Connection Type	L2TP VPN client ▾
Connection Status	Disconnected
Enable	<input type="checkbox"/>
LNS Address *	<input type="text"/>
Host Name *	<input type="text"/>
Tunnel Password	<input type="text"/>
Handshake Interval (s)	<input type="text"/>
PPP User Name *	<input type="text"/>
PPP Password *	<input type="text"/>

#### 5.8.3.6 DHCP

Advance->System Settings->DHCP. User can enable and disable DHCP services, modify IP addresses, subnet masks, IP pool scope, and lease duration.

### Router

IP Address *	<input type="text" value="192.168.150.1"/>
Subnet Mask *	<input type="text" value="255.255.255.0"/>
DHCP Server	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
DHCP IP Pool *	<input type="text" value="192.168.150.100"/> <input type="text" value="192.168.150.200"/>
DHCP Lease Time *	<input type="text" value="24"/> hour (s)

Click <Apply> and confirm <Yes> to save the configuration. After device restart the configuration will take

effect.

### 5.8.3.7 Access Device


Advance->System Settings->Access Device, this page displays current accessed wireless device and wired devices.

Rate limiting step: Click <Limit> and input rate,confirm <Yes> to complete operation.

#### Wireless Access Device

NO.	Host Name	MAC Address	IP Address
No data			

#### Cable Access Devices

NO.	Host Name		MAC Address	IP Address	
1	CHINA-20191204O		54:EE:75:2B:E0:0C	192.168.150.100	<input type="button" value="Limit"/>

#### Black List

NO.	MAC Address	Operation
-----	-------------	-----------

#### Speed Limit List

NO.	MAC Address	Upstream Rate(KB/s)	Downlink Rate(KB/s)	Operation
-----	-------------	---------------------	---------------------	-----------

### 5.8.3.8 TR069

Advance->System Settings->TR069, User can enable or disable TR069 connection.

User input necessary parameters,click to connect TR069 remote server.If connection is successfully, User can see the device state is on-line at TR09 server and control the terminal remotely.

## TR069

Enable

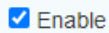


(After clicking it will manually connect to the ITMS management platform)

Inform reports results manually

ACS URL \*

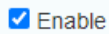
Periodic Inform



Periodic Inform Interval \*

Seconds

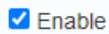
ACS Auth



ACS Username

ACS Password

CPE Auth



CPE Username

CPE Password

CloudKey

NickName

### 5.8.3.9 Log Management

Advance->System Settings->Log Management.

This page display device running log, User can click <Export> to export device running log to local folder and click <Delete> to clear device running log.

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## Device Running Log

```
[2000-01-01 00:00:01] #pdp deactivate action from 1552!  
[2000-01-01 08:00:23] #pdp_auto_dial begin!  
[2000-01-01 08:00:30] pdp active success!!!  
[2020-05-19 16:13:24] IP:192.168.150.100, User:admin login!  
[2020-05-19 16:13:24] web set cmd, goformId=LOGIN!  
[2000-01-01 08:00:17] #pdp_auto_dial begin!  
[2000-01-01 08:00:23] pdp active success!!!  
[2000-01-01 08:01:20] IP:192.168.150.100, User:admin login!  
[2000-01-01 08:01:20] web set cmd, goformId=LOGIN!  
[2020-05-19 16:41:21] IP:192.168.150.100, User:admin login!  
[2020-05-19 16:41:21] web set cmd, goformId=LOGIN!  
[2020-05-19 16:45:15] [tw_update] tw_update success!  
[2020-05-19 16:45:15] [upload.cgi] upload.cgi success!  
[2020-05-19 16:46:40] #pdp_auto_dial begin!  
[2020-05-19 16:46:50] pdp active success!!!  
[2020-05-19 16:47:05] IP:192.168.150.100, User:admin login!  
[2020-05-19 16:47:05] web set cmd, goformId=LOGIN!  
[2020-05-19 17:02:36] IP:, User:admin logout!  
[2020-05-19 17:02:36] web set cmd, goformId=LOGOUT!  
[2020-05-19 17:03:48] IP:, User: logout!  
[2020-05-19 17:03:48] web set cmd, goformId=LOGOUT!  
[2020-05-19 17:03:55] IP:192.168.150.102, User:admin login!  
[2020-05-19 17:03:55] web set cmd, goformId=LOGIN!  
[2000-01-01 08:00:16] #pdp_auto_dial begin!
```

Export

Delete

### 5.8.3.10 Traffic Management

Advance->System Settings->Traffic Management.User can Enable or Disable data management.

Support data calibrate function. If the data that web page displayed is not in agreement with the actual Used, User can modify the Used data by this operation.

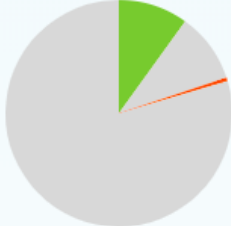
Remind User when Used data/time reaches specified percentage. Click<Apply> to save the configuration and take effect.




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Data Management  Enable  Disable


Data Type  Data  Time



10GB Used 

90GB of remaining

When reached 20%, 20GB to remind me 

100GB Data Plan 

Data usage is approximate only. For actual usage, please refer to your network operator.

**Apply**

### 5.8.3.11 Network Diagnosis

Advance->System Settings->Network Diagnosis.

There have three network tool to diagnosis internet connection. Such as Ping,Traceroute and Wire Break Detection.

On the PING or Traceroute page, Input"IP/URL " and click <Start> to start operation, click <Stop> to end operation, relevant log will display in the log window.

Ping    Trace    Net Check    Tcpcdump

### Ping Testing

IP/URL

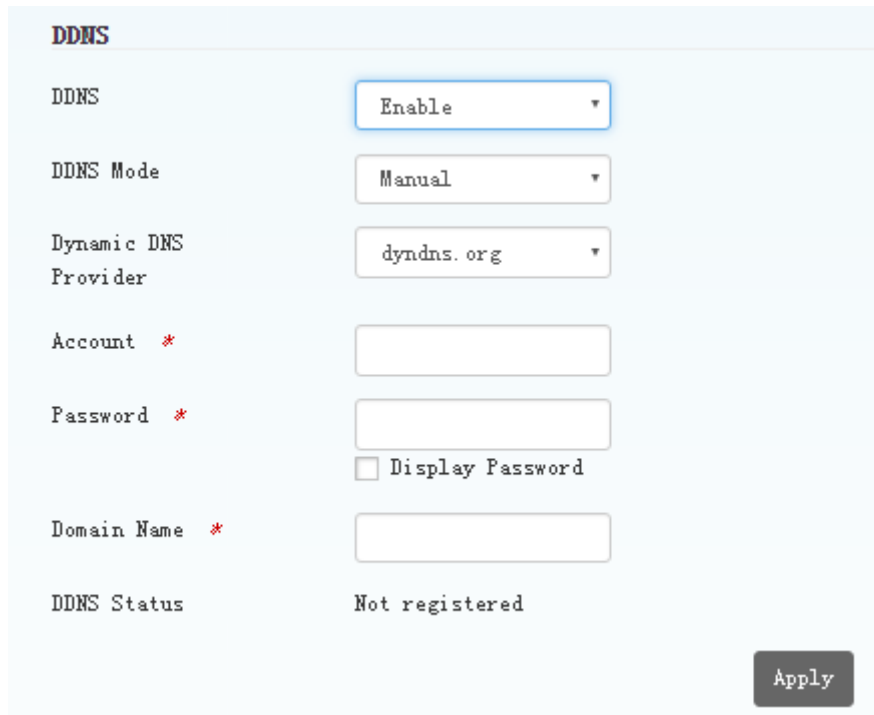
Ping\_Count

### 5.8.3.12 DDNS

Advance->System Settings->DDNS, User can Enable/Disable DDNS function. This function is disabled by default.

User can set the dynamic domain name service to assign a fixed domain name for the dynamic IP WAN address.

Dynamic DNS Provider: Set the server which will provide dynamic domain name service.



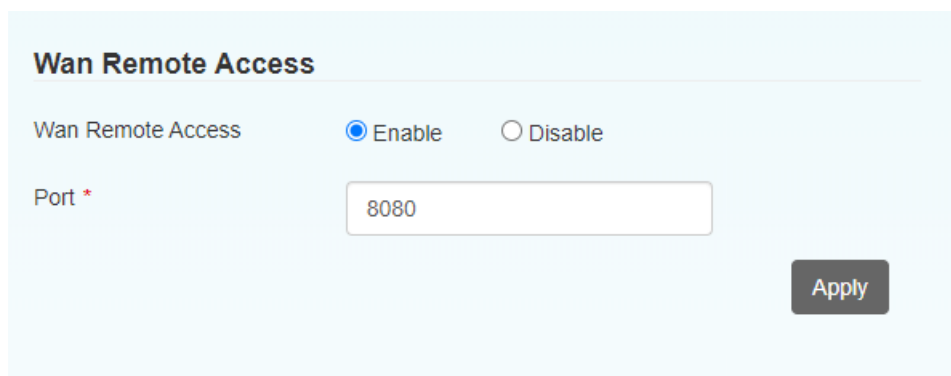
The screenshot shows the DDNS configuration page. It includes the following fields and options:

- DDNS:** A dropdown menu set to "Enable".
- DDNS Mode:** A dropdown menu set to "Manual".
- Dynamic DNS Provider:** A dropdown menu set to "dyndns.org".
- Account \***: An empty text input field.
- Password \***: An empty text input field with a "Display Password" checkbox below it.
- Domain Name \***: An empty text input field.
- DDNS Status:** Displays "Not registered".
- Apply:** A button at the bottom right.

Click <Apply> to save the configuration and take effect.

### 5.8.3.13 Wan Remote Access

User can Enable or Disable Wan Remote Access. When this function is enabled, users can remotely access through IP and PORT.



The screenshot shows the Wan Remote Access configuration page. It includes the following fields and options:

- Wan Remote Access:** Radio buttons for "Enable" (selected) and "Disable".
- Port \*:** A text input field containing "8080".
- Apply:** A button at the bottom right.

If you have any other questions, please send an email to [info@istartek.com](mailto:info@istartek.com), we are happy to



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server you.