

File Name:	User Manual	Version	1.0
Project:	V518	Update Date:	Nov.16 th , 2018

iStartek 3G/4G INDUSTRIAL ROUTER USER GUIDE Model: V518



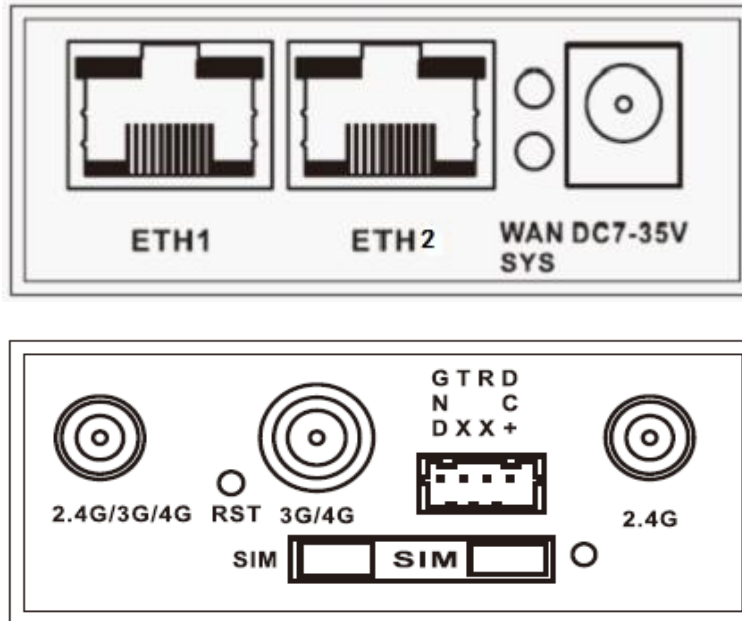
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1. Interface description



Item	Parameter
WAN Port(Left)	1 10/100M adaptive LAN/WAN port, built-in isolation, auto flip (Auto MDI/MDIX); standard routing mode for WAN port, other modes for LAN port
LAN Port(Right)	1 10/100M adaptive LAN port with automatic flip (Auto MDI/MDIX); built-in 1.5KV electromagnetic isolation protection
Serial Port	1 serial port DTU supports data transparent transmission, AT command
Indicator	2 indicators
Antenna Connector	3 antenna interfaces, standard SMA antenna interface (2 2.4G and 1 3G/4G)
USIM	1 SIM card slot
Power interface	Standard DC interface 7V-35V

Indicator status description

Item	Status	Description
ETH	Flash	RJ45 port is connected
	Off	RJ45 port is not connected
WAN	Fast Flash	Fast flashing after power-on, indicating that the dialing process is in progress

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	Constant On	It is constantly on after power-on, indicating that the dialing is successful.
	Off	Off after power-on, indicating that the LTE module or SIM card is not recognized.
SYS	Constant On	It is constantly on after power-on, indicating that normal power supply.
	Off	After power-on, from constant light to slow flash, the system is running normally.

2. Preparation for setup

Connecting device

You can connect your computer and router by following the steps below.

Set the computer's IP address

Before accessing the web settings page, it is recommended that you set your computer to "automatically obtain an IP address" and "automatically obtain a DNS server address", and the router automatically assigns an IP address. If you need to assign a static IP address to your computer, you need to set the IP address of the computer to the same subnet as the router's LAN port IP address (the router's LAN port default IP address is 192.168.10.1, and the subnet mask is 255.255.255.0).

Connect via Wi-Fi

Detect the wireless router's wireless network connection, then click the 'Connect' button to establish a connection, the default wireless password is: **12345678**.



Confirm that the computer is connected to the router

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When your computer shows that the IP has been successfully obtained, use the Ping command to confirm that the connection between the computer and the router is successful.

For example, in a Windows XP environment, execute the Ping command: Ping 192.168.10.1
If the screen displays as below, it indicates that the computer has successfully established a connection with the router.

```
C:\Users\Administrator.XX-20140918FWIB>ping 192.168.10.1

正在 Ping 192.168.10.1 具有 32 字节的数据:
来自 192.168.10.1 的回复: 字节=32 时间=1ms TTL=64
来自 192.168.10.1 的回复: 字节=32 时间=4ms TTL=64
来自 192.168.10.1 的回复: 字节=32 时间=2ms TTL=64
来自 192.168.10.1 的回复: 字节=32 时间=2ms TTL=64
```

Log in to the router

Log in to the router web settings page.

Enter "http://192.168.10.1" in the address bar of the web browser and enter the login user name and password in the pop-up box.

When you log in for the first time, please enter the default username: admin, password: admin.




Enter in router web settings page

After the login is successful, enter the web settings page, then you can set up and manage the router.

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M2M



 China Telecom LTE
 Version: 2.2.1.9

3G WiFi Module
语言/Language: English

[Status](#) | [Mode](#) | [3G/4G](#) | [VPN](#) | [LAN](#) | [Wireless24](#) | [Security](#) | [Server](#) | [Routing](#) | [Admin](#) | [Logout](#)

▶ [Summary](#)
[Log](#)

Help

Work Mode	3G/4G Wireless Router Mode	
3G/4G Connect	Auto Select	
3G/4G ISP	EVDO/CDMA 1X/LTE	
Signal	70%	
SIM/UIM Status	Available	
3G/4G Service	Valid service	
3G/4G Network	LTE	

WAN Info:

Connection Type	3G/4G Wireless Dial Up(Connected)	<input type="button" value="CONNECT"/> <input type="button" value="DISCONNECT"/>
IP Address	172.4.10.198	
Subnet Mask	255.255.255.252	
Gateway	172.4.10.197	
DNS 1	61.177.7.1	
DNS 2	0.0.0.0	
MAC Address	DC:56:E6:03:1E:65	
Keep Time	00:02:47	

LAN Info:

3. Operating mode

V518 provides 4 working modes: 3G/4G Wireless Router Mode (default), Standard Wireless Router Mode, Standard Wireless AP and APClient Bridge Mode, Wireless AP Client Mode:

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Device Work Mode

- 3G/4G Wireless Router Mode**
 Wireless and ethernet port connect to local network, The 3G/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.
 

3.1 3G/4G Wireless Router Mode (default)

The V518 defaults to the 3G/4G Wireless Router Mode. When a 3G/4G card is inserted, the router will automatically recognize the 3G/4G network. You can also define the network operator you need to choose.

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Status | Mode | **3G/4G** | VPN | LAN | Wireless24 | Security | Server | Routing | Admin | Logout

▶ Setup Break-Detection DDNS AT CMD

3G/4G setup

Dial Device 3G/4G Device UART1

Auto select 3G/4G ISP

3G/4G ISP

APN

Pin Code

Dialed Number

Username

Password

Authentication Auto CHAP PAP

Use PPP dial

Auto Dial-up

Router will reboot after dial: times failed. (0 will disabled)

Extra AT cmd (If there are more then one AT cmd , please use ;)

Use local IP

Primary DNS Server

Secondary DNS Server (Optional)

Network Type

Help

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

For example, the operators in China:

Operator	3G/4G Network	APN	Dial Number	User Name	Password
CHINA MOBILE	TD-SCDMA TDD-LTE	cmnet	*99***1# or *99# or*98*1#	card	card
CHINA TELECOM	CDMA2000 FDD-LTE	ctnet	#777	card	card
CHINA UNION	WCDMA FDD-LTE	3gnet	*99#	Blank	blank

3.2 Standard Wireless Router Mode

1) Static internet access

Enter the router management interface working mode to select the Standard Router Mode, set WAN Internet mode as static address, enter the IP address, network mask, gateway, DNS and

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other related parameters provided by the ISP, click OK.

Status	Mode	WAN	VPN	LAN	Wireless24	Security	Server	Routing	Admin	Logout
<div style="background-color: #0070C0; color: white; padding: 2px;"> ▶ Setup Break-Detection MAC-Clone DDNS </div>										
WAN Setup Connection Type: <input type="text" value="STATIC (fixed IP)"/> ▾ PPPoE Username: <input type="text" value="PPPoE"/> PPPoE Password: <input type="text" value="*****"/> MTU: <input type="text" value="1492"/> (546~1492) Primary DNS Server: <input type="text"/> (Optional) Secondary DNS Server: <input type="text"/> (Optional) Hostname: <input type="text"/> (Optional) Service Name: <input type="text"/> (Optional)										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.
<input type="button" value="APPLY"/> <input type="button" value="CANCEL"/>										

2) Dynamic internet access

Enter the router management interface working mode, select the Standard Router Mode, set WAN setup as the dynamic address, click APPLY, the router will automatically obtain the parameters assigned by the ISP.

Status	Mode	WAN	VPN	LAN	Wireless24	Security	Server	Routing	Admin	Logout
<div style="background-color: #0070C0; color: white; padding: 2px;"> ▶ Setup Break-Detection MAC-Clone DDNS </div>										
WAN Setup Connection Type: <input type="text" value="DHCP (Auto config)"/> ▾ MTU: <input type="text" value="1500"/> (576~1500) Primary DNS Server: <input type="text"/> (Optional) Secondary DNS Server: <input type="text"/> (Optional) Hostname: <input type="text"/> (Optional)										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.
<input type="button" value="APPLY"/> <input type="button" value="CANCEL"/>										

3) PPPoE Internet access

Enter the router management interface working mode, Standard Router Mode, WAN setting as PPPoE, enter the user name, password and other related parameters provided by the ISP, click APPLY.

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Status	Mode	WAN	VPN	LAN	Wireless24	Security	Server	Routing	Admin	Logout				
<table border="1"> <tr> <td>▶ Setup</td> <td>Break-Detection</td> <td>MAC-Clone</td> <td>DDNS</td> </tr> </table>											▶ Setup	Break-Detection	MAC-Clone	DDNS
▶ Setup	Break-Detection	MAC-Clone	DDNS											
WAN Setup Connection Type: <input type="text" value="PPPoE (ADSL)"/> ▾ PPPoE Username: <input type="text" value="PPPoE"/> PPPoE Password: <input type="password" value="....."/> MTU: <input type="text" value="1492"/> (546~1492) Primary DNS Server: <input type="text"/> (Optional) Secondary DNS Server: <input type="text"/> (Optional) Hostname: <input type="text"/> (Optional) Service Name: <input type="text"/> (Optional)										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.				
<input type="button" value="APPLY"/> <input type="button" value="CANCEL"/>														

3.3 Standard Wireless AP and APClient Bridge Mode


After selecting this mode, we can use the V518 as a bridge AP to bridge the previous level wireless router. First set the computer's local IP to 192.168.10.100, connect to the LAN2 interface through the network cable, enter the router management interface, and select the **Standard Wireless AP and APClient Bridge Mode**

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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.



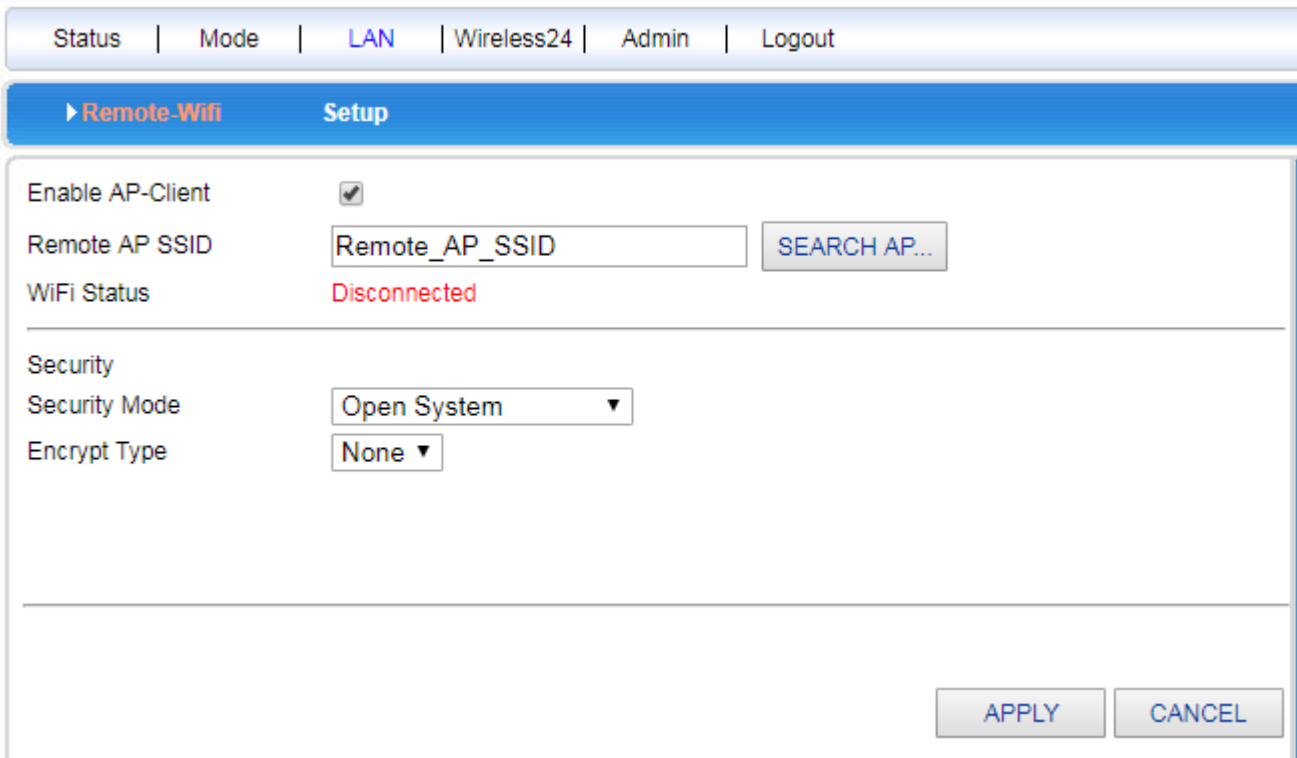
Wireless AP Client Mode
Ethernet Wireless connect PC or local network, Another Wireless Interface work for a WAN port connect to other wireless AP or router.



Startrack

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(1) Click on LAN settings to search for wireless networks



Status | Mode | LAN | Wireless24 | Admin | Logout

▶ Remote-Wifi Setup

Enable AP-Client

Remote AP SSID

WiFi Status **Disconnected**

Security
























Security Mode

Encrypt Type

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

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REFRESH CONNECT CLOSE

 TERESA [ec:23:d:eb:bd:4c]	 WPA2PSK/AES	Channel 11  86% <input type="checkbox"/>
 HUAWEI-FACAI [14:d1:69:0b:46:b0]	 WPA2PSK/AES	Channel 11  60% <input type="checkbox"/>
 fsz1688 [48:7d:2e:63:04:9d]	 WPA1PSKWPA2PSK/AES	Channel 6  39% <input type="checkbox"/>
 ziroom_17D [4c:e1:73:01:f9:24]	 WPA1PSKWPA2PSK/AES	Channel 1  34% <input type="checkbox"/>
 yaopipi [f8:6e:ee:e9:be:5c]	 WPA1PSKWPA2PSK/TKIPAES	Channel 10  34% <input type="checkbox"/>
 ZC [8c:f2:28:d9:33:90]	 WPA1PSKWPA2PSK/AES	Channel 6  29% <input type="checkbox"/>
 ChinaNet-zCi2 [f0:92:b4:7b:48:89]	 WPA1PSKWPA2PSK/TKIPAES	Channel 1  15% <input type="checkbox"/>
 MERCURY_8358 [76:c3:30:0d:48:aa]	Not set security AP	Channel 13  15% <input type="checkbox"/>

(3) Enter the selected wireless AP password to bridge the previous level wireless AP.

Status | Mode | LAN | Wireless24 | Admin | Logout

▶ Remote-Wifi Setup

Enable AP-Client

Remote AP SSID

Security

Security Mode

WPA-PSK

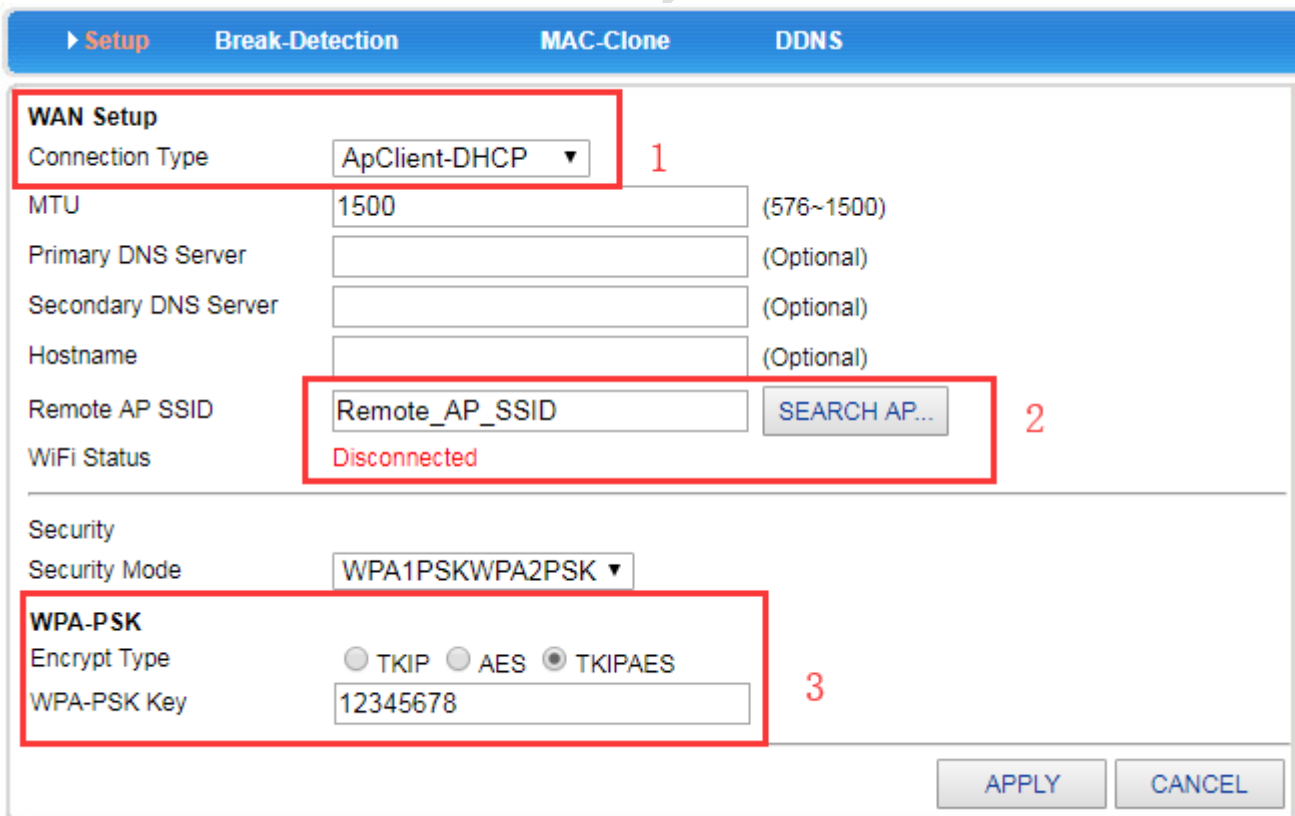
Encrypt Type TKIP AES TKIPAES

WPA-PSK Key

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3.4. Wireless AP Client Mode

- Router management interface - working mode - Wireless AP Client Mode, click to APPLY.
- Wireless connection - Internet access drop-down menu select ApClient-dynamic address (automatically obtained from DHCP server), click to search wireless network. This time will automatically pop up all the wireless network selection dialogs found, select the WIFI network which you are going to connect. Please pay attention to see the channel of the selected network, click on the connection. If the selected WIFI has a password, please enter the corresponding password in the following wireless security. At this time, please pay attention to whether the password is character type or hexadecimal. Click APPLY.
- Channel. Router Management Interface - Wireless Settings - Select the corresponding Channel in the wireless channel.



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 SEARCH AP... 2

WiFi Status Disconnected

Security

Security Mode

WPA-PSK

Encrypt Type TKIP AES TKIPAES 3

WPA-PSK Key

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4. Wireless Security Settings

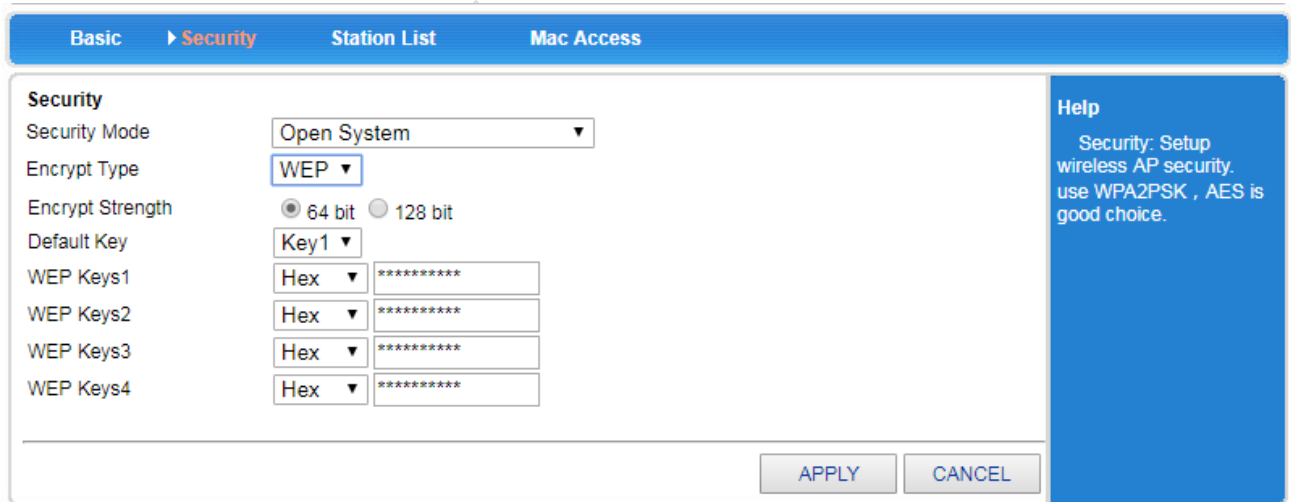
4.1. Wireless Security

There are several types of wireless security modes, and you can select different security modes as needed.

- Stop
- Open System
- WPA-PSK
- WPA2-PSK
- WPAPSKWPA2PSK(即WPA-PSK和WPA2-PSK混合模式)

4.2. Open System

The encryption type in this security modes: None and WEP



The screenshot shows a web-based configuration interface for wireless security. The 'Security' tab is active, showing the following settings:

- Security Mode: Open System
- Encrypt Type: WEP
- Encrypt Strength: 64 bit (selected), 128 bit
- Default Key: Key1
- WEP Keys1, WEP Keys2, WEP Keys3, WEP Keys4: Each has a 'Hex' dropdown and a masked input field (*****).

Buttons for 'APPLY' and 'CANCEL' are visible at the bottom right. A 'Help' sidebar on the right contains the text: 'Security: Setup wireless AP security. use WPA2PSK , AES is good choice.'

Interface Description:

Item	Description
Encryption type	有两种加密类型可供选择: None 和 WEP。选择 None 则为不加密, 选择 WEP 加密后的设置界面。如图所示。 There are two types of encryption optional: None and WEP. If you select None, it is not encrypted. If select the WEP, encrypted setting interface as the picture

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	shows.
WEP Encryption length	There are two encryption lengths optional: 64bit and 128bit. The default is 64bit
Default key ID	You can set up 4 keys at the same time, but only 1 key can be selected for using at the moment. This item is the key to be used currently. The default is key 1.
WEP Key	可以选择设置的密钥类型并设置密钥。有两种密钥类型可供选择:十六进制型和字符型。根据不同的加密长度和密钥类型,设置不同的密钥。You can choose the type of key and then set its key. There are two key types optional: hexadecimal and character. Set different keys according to different encryption lengths and key types.

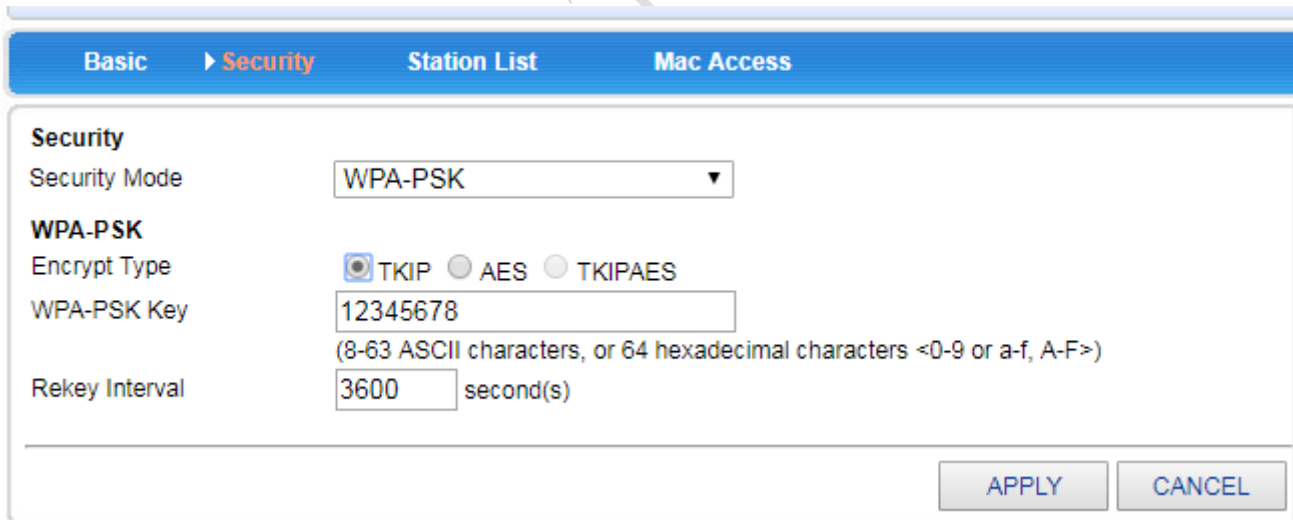
Key setting:

64bit encryption: 10-digit hexadecimal or 5-digit character.

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

4.3.WPA-PSK

This security mode is the WPA-PSK encryption mode.



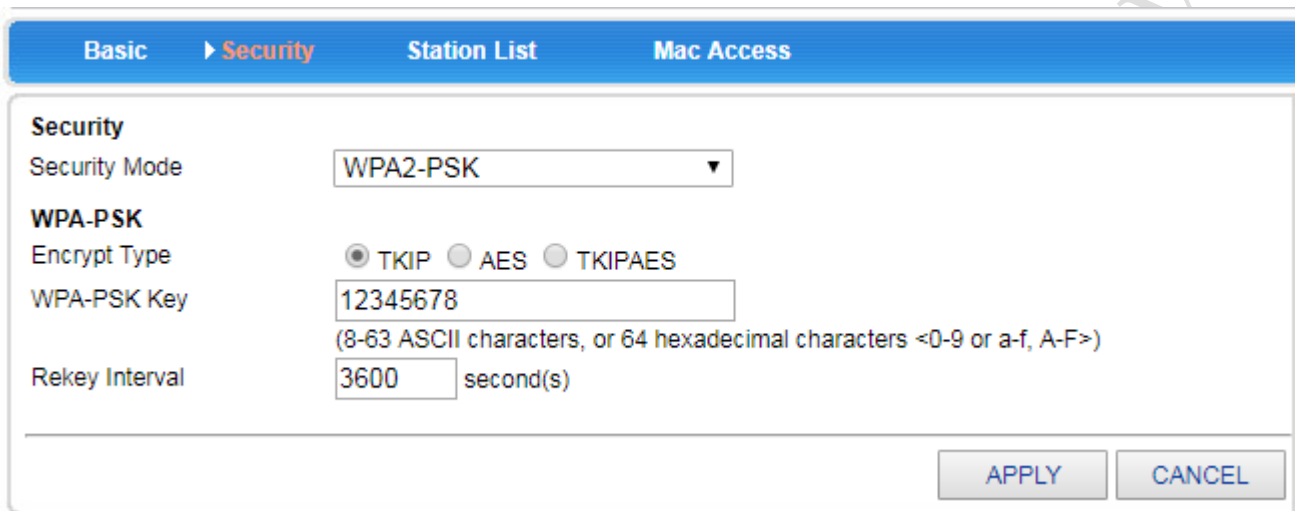
Interface Description:

Item	Description
Security Mode	Choose WPA-PSK.
Encrypt Type	Two options:TKIP and AES.

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WPA-PSK Key	Set the key. The legal key length is 8-63 ASCII characters or 64 hexadecimal numbers (0~9, a~f or A~F).
Key update interval	Set the key update interval in seconds.

4.4.WPA2-PSK



Basic ▶ Security 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

Interface Description:

Item	Description
Security Mode	Choose WPA2-PSK.
Encrypt Type	3 Options: TKIP、AES 和 TKIPAES。
WPA-PSK Key	Set the key. The legal key length is 8-63 ASCII characters or 64 hexadecimal numbers (0~9, a~f or A~F).
Key update interval	Set the key update interval in seconds.

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4.5. WPAPSKWPA2PSK

Basic
▶ Security
Station List
Mac Access

Security

Security Mode ▼

WPA-PSK

Encrypt Type
 TKIP AES TKIPAES

WPA-PSK Key

(8-63 ASCII characters, or 64 hexadecimal characters <0-9 or a-f, A-F>)

Rekey Interval
 second(s)

Interface Description:

Item	Description
Security Mode	Choose WPAPSKWPA2PSK.
Encrypt Type	3 options: TKIP, AES and TKIPAES.
WPA-PSK Key	Set the key. The legal key length is 8-63 ASCII characters or 64 hexadecimal numbers (0~9, a~f or A~F).
Key update interval	Set the key update interval in seconds.

5. System Service

V518 offers a variety of service options, here we mainly explain virtual services, serial services and SMS services.

Status | Mode | 3G/4G | VPN | LAN | Wireless24 | Security | Server | Routing | Admin | Logout

▶ Virtual-Server Application DMZ Com2Server Sms

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5.1.Virtual Sever

The V518 can be used as a network server and provides a variety of service functions. It only needs to fill in the external port, internal port, and internal server IP address correctly, and can be used as a virtual server.

Passive FTP Virtual Server Setup

Passive FTP Virtual Server Disable Enable

FTP Port
 Server IP 192.168. .

Virtual Server Settings

Preset Settings
 service name
 external Port --
 Internal Port --
 Protocol
 Internal Server IP 192.168. .

5.2. COM2 SERVER

One of the main functions of the V518 is COM2 SERVER (client), where we can easily connect many serial terminals.

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Virtual-Server
Application
DMZ
▶ Com2Server
Sms

COM Server Setup

COM Server Setup Enable

COM Server AT Mode Transparent

Host ID

Restart Time Mins restart.(0--Disabled)

HeartBeat Support % variable wildcard

Period Second (0--Disable)

Not receive TCP/UDP socket data seconds, restart service (0--Disabled)

Restart service times, then reboot route (0--Disabled)

Client Mode ▼

	Server Addr	Protocol	TCP port	UDP port
1.	<input type="text" value="192.168.10.254"/>	<input type="text" value="TCP&UDP"/> ▼	<input type="text" value="5000"/>	<input type="text" value="5000"/>
2.	<input type="text"/>	<input type="text" value="TCP&UDP"/> ▼	<input type="text" value="5001"/>	<input type="text" value="5001"/>
3.	<input type="text"/>	<input type="text" value="TCP&UDP"/> ▼	<input type="text" value="5002"/>	<input type="text" value="5002"/>
4.	<input type="text"/>	<input type="text" value="TCP&UDP"/> ▼	<input type="text" value="5003"/>	<input type="text" value="5003"/>
5.	<input type="text"/>	<input type="text" value="TCP&UDP"/> ▼	<input type="text" value="5004"/>	<input type="text" value="5004"/>

5.3. SMS Service

If the V518 is equipped with a 3G/4G tariff card that can send and receive text messages, then we can send a text message to the V518 through preset mobile phone number, controlling the dialing/disconnection and restart of the V518. The specific setting interface is as follows:

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Virtual-Server	Application	DMZ	Com2Server	► Sms
Sms Service				
Sms center number	<input type="text"/>	Optional		
Access user phone 1	<input type="text"/>			
Access user phone 2	<input type="text"/>			
Access user phone 3	<input type="text"/>			
Access user phone 4	<input type="text"/>			
Access user phone 5	<input type="text"/>			
Inform	<input type="checkbox"/>	Enable		
Access	<input type="checkbox"/>	Enable		
Message	<input type="text"/>			
				<input type="button" value="APPLY"/> <input type="button" value="CANCEL"/>

6. Device Management

6.1. Device Function

The UPnP protocol is used by systems such as Windows ME, 2000, XP. If this feature is enabled, these operating systems will automatically find the router through this protocol.

UPnP (Universal Plug and Play) is mainly used to implement intelligent interworking of devices. It can automatically discover and control various network devices from various vendors without user participation and use of the main server.

With the UPnP feature enabled, the router can implement NAT traversal: when computers in the LAN pass.

When the wireless router communicates with the Internet, the wireless router can automatically add and delete the NAT mapping table as needed to solve the problem that some traditional services (such as MSN voice and video) cannot traverse NAT.

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Equipment Function

Enable UPNP

Remote

Disable

Enable

Port(1025~65535):

Enable Telnet

If you want to telnet the device, enter the address to the browser address bar: http://WAN IP:8080

System Log

Enable System Log

Enable Check 3G device , if not exist then reboot.

Reboot Device after: minutes (0 - disabled)

Regular reboot: :

Enable Mon Tue Wed Thur Fri Sat Sun

Check the radio button and press the <APPLY> button to complete the setting.

6.2. Firmware Upgrade

With a software upgrade, you can load the latest version of the software into your router for more features and more stable performance.

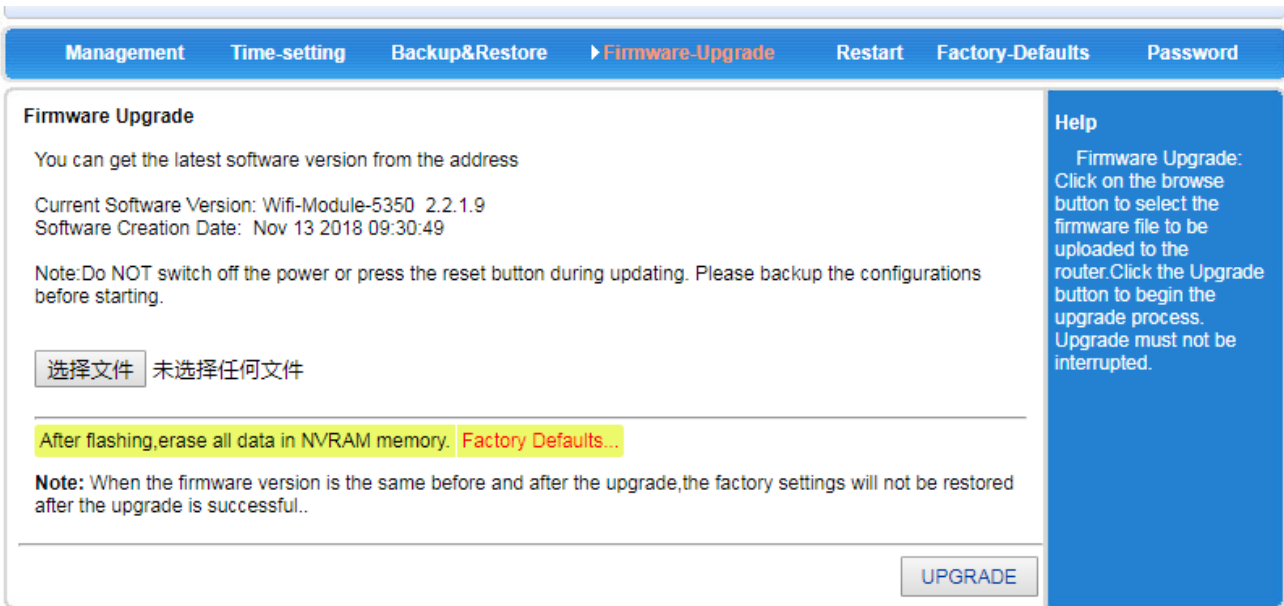
The software upgrade steps are as follows:

- (1) Click the <Browse> button and select the software you want to upgrade.
- (2) Click the <Upgrade> button to start the upgrade.
- (3) If you need to upgrade and restore the factory, click the <Restore Factory Settings> button.

Description: The upgrade and factory reset settings have two conditions:

1. The version number changes; 2. Click the <Restore Factory Settings> button during the upgrade.

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Project:	V518	Update Date:	Nov.16 th , 2018



Firmware Upgrade

You can get the latest software version from the address

Current Software Version: Wifi-Module-5350 2.2.1.9
Software Creation Date: Nov 13 2018 09:30:49

Note: Do NOT switch off the power or press the reset button during updating. Please backup the configurations before starting.

选择文件 未选择任何文件

After flashing, erase all data in NVRAM memory. **Factory Defaults...**

Note: When the firmware version is the same before and after the upgrade, the factory settings will not be restored after the upgrade is successful.

UPGRADE

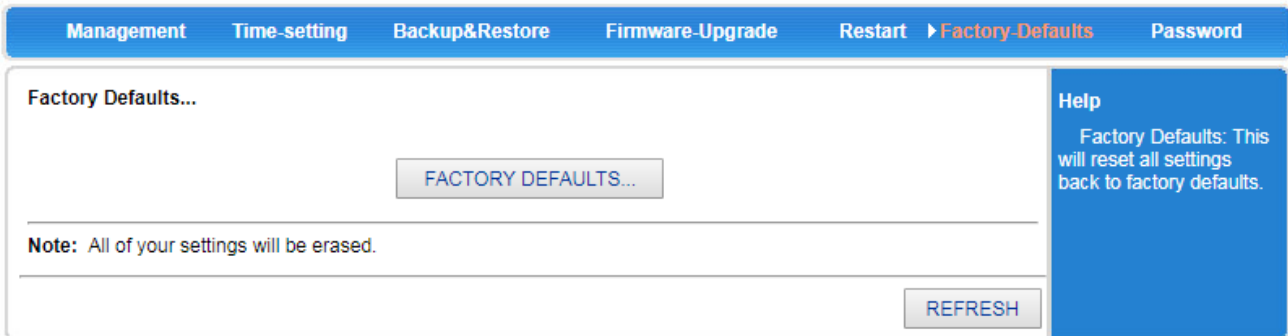
Help
Firmware Upgrade: Click on the browse button to select the firmware file to be uploaded to the router. Click the Upgrade button to begin the upgrade process. Upgrade must not be interrupted.

6.3. Factory Defaults

The wireless router will reboot during the recovery setup.

Restoring to the factory settings will clear all settings information of the wireless router and return to the initial state. This function is generally used when the device is switched from one network environment to another. The device is restored to the factory settings and then re-set to better suit the current networking.

Click the <FACTORY DEFAULTS> button to confirm and restore the factory settings.



Factory Defaults...

FACTORY DEFAULTS...

Note: All of your settings will be erased.

REFRESH

Help
Factory Defaults: This will reset all settings back to factory defaults.

6.4. Password Management

The default username/password of the wireless router is admin, the username cannot be modified, and the password can be modified. For security reasons, it is recommended to modify this password and keep the password information.

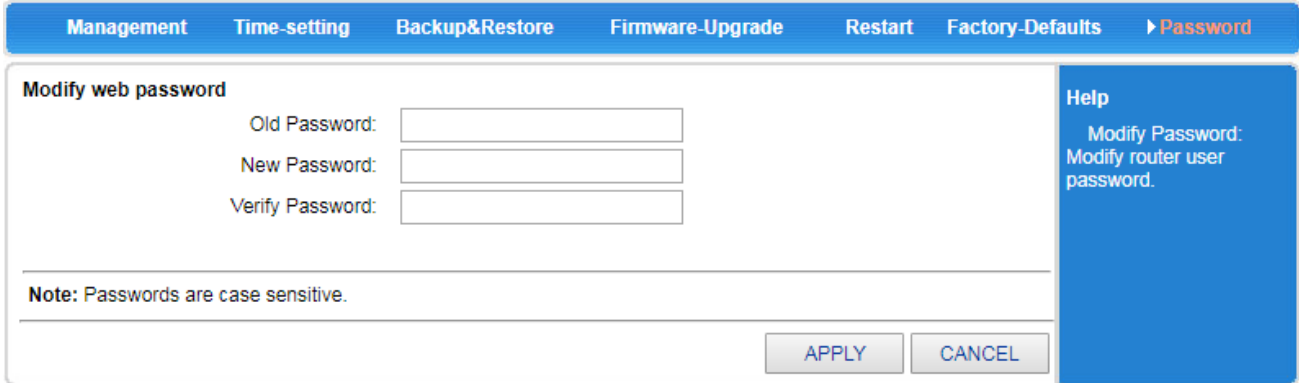
The setup steps are as follows:

- (1) Enter the original password in the <Old Password> text box; enter a new password in the

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<New Password> text box, and re-enter the new password in the <Verify Password> text box to confirm.

(2) Click the <APPLY> button to complete the password modification.



Management Time-setting Backup&Restore Firmware-Upgrade Restart Factory-Defaults **Password**

Modify web password

Old Password:

New Password:

Verify Password:

Note: Passwords are case sensitive.

APPLY CANCEL

Help
Modify Password:
Modify router user
password.

Startrack Technology