



Wireless module/WiFi product
VM300-H/VM300-L/VM5G/VBG1200/VAP11AC

Quick Setting Guide

Declaration

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Product application and secondary development precautions

1. Problems related to wireless interference:

1.1 Use the ping command to test the wireless transmission performance. If it is found that the delay of the ping packet response is extremely uneven, and there are many responses with a large delay, it can basically be judged that the wireless has been strongly interfered;

1.2 The product antenna should be kept as far away as possible from sources of interference, such as switching power supplies, antennas of other modules or wireless products, etc.;

1.3 If it is too close to the antenna of other wireless products, it will cause mutual interference, resulting in an increase in the transmission bit error rate and a slower transmission rate. At this point, the wireless signal must be properly attenuated. The methods of attenuating the signal include adding obstacles, extending the distance, and adding a resistor in series between the antenna feed point and the antenna, etc., to meet the actual application requirements;

2. Selecting a suitable power supply is the key to good and stable wireless transmission and stable operation of the product. Improper power supply will cause damage to the product or poor wireless performance. The selected power supply must meet the voltage range and input power requirements of the power supply input, and the ripple must be less than the required maximum power supply ripple (100mV);

Form 1

Transmission Distance Parameters Form			
Model	No-barrier point to point Transmission Distance	Transmission Rate (Mbps)	Band
VM300-H/VM300-L	80m--100m	300	2.4G
VM5G/VBG1200/ VAP11AC	100m--300m	300+900	5G

Form2

Power Supply Parameters List			
Model	Power Supply Voltage	Input Power	Typical Power Supply
VM300-H/VM300-L	DC5V--24V	≥5W	5V/2A
VM5G/VBG1200		≥10W	
VAP11AC			

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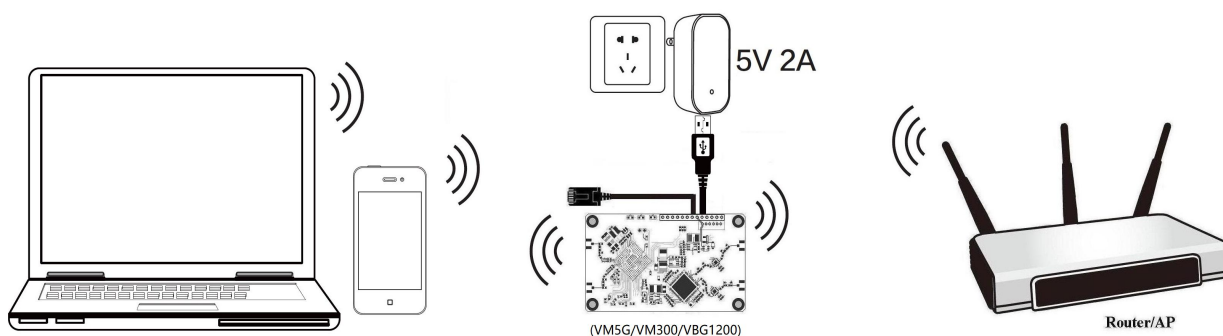
Chapter 1 Application Mode

1.1 Bridge + Repeater Mode

There are three application modes for the bridge mode of VONETS module/WiFi product: WiFi repeater, WiFi bridge and WiFi AP.

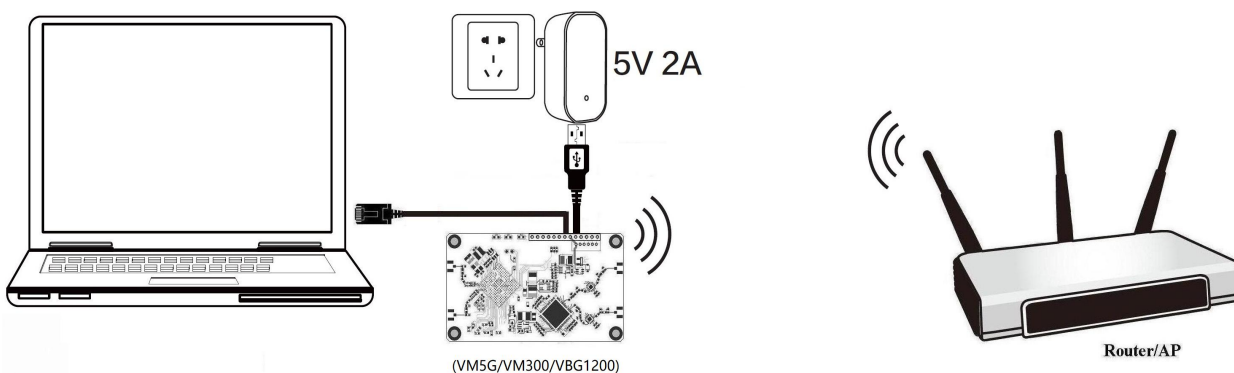
- **WiFi Repeater:**

VONETS module/WiFi product as WiFi Repeater, it must be configured to source WiFi hotspot parameters, can be used to extend the wireless signal coverage of existing APs or wifi router .



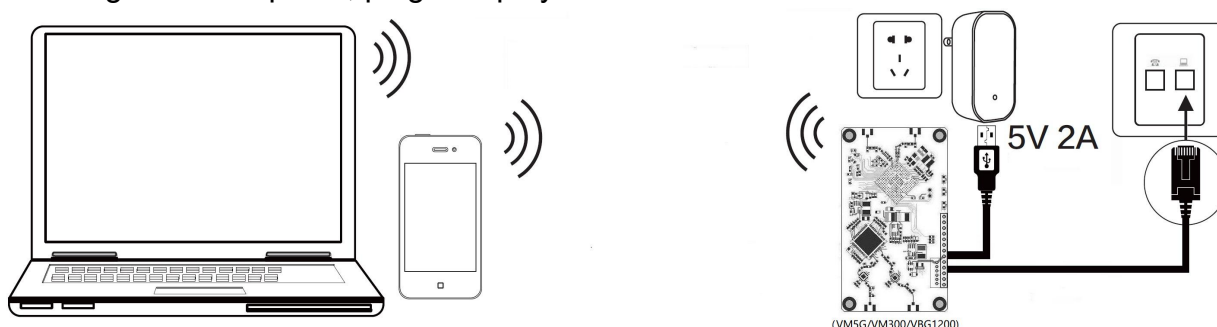
- **WiFi Bridge:**

VONETS module/WiFi product as WiFi bridge, it must be configured to source WiFi hotspot parameters, can be used for devices only with Ethernet ports to access wireless networks.



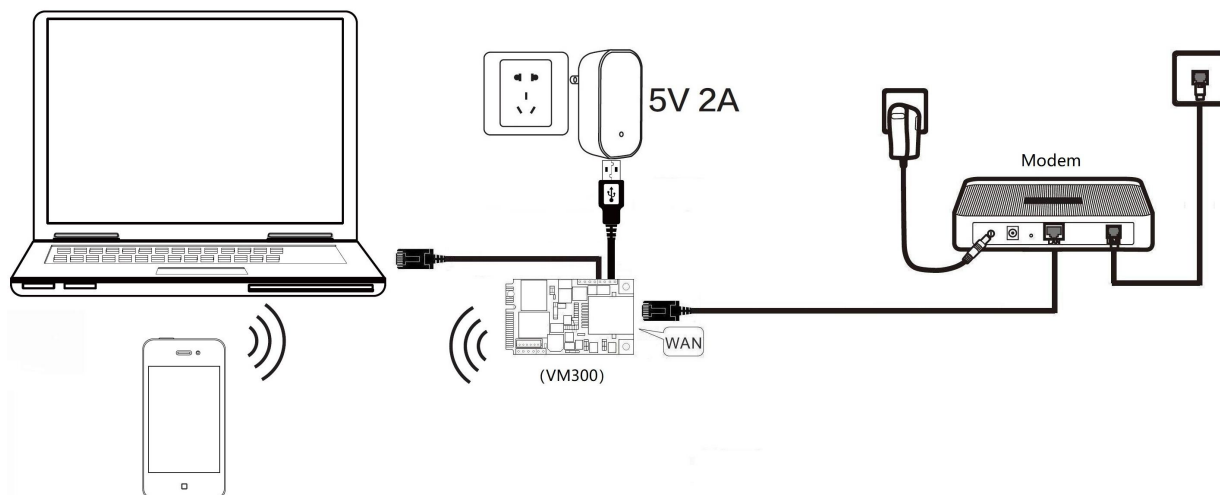
- **WiFi AP:**

VONETS module/WiFi product as WiFi AP, it can achieve wireless access to wired LAN, no configuration required, plug and play.

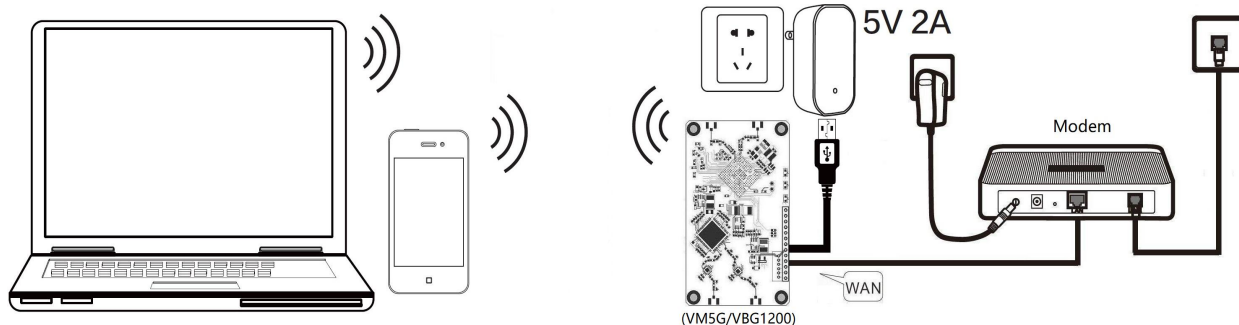


1.2 Router Mode

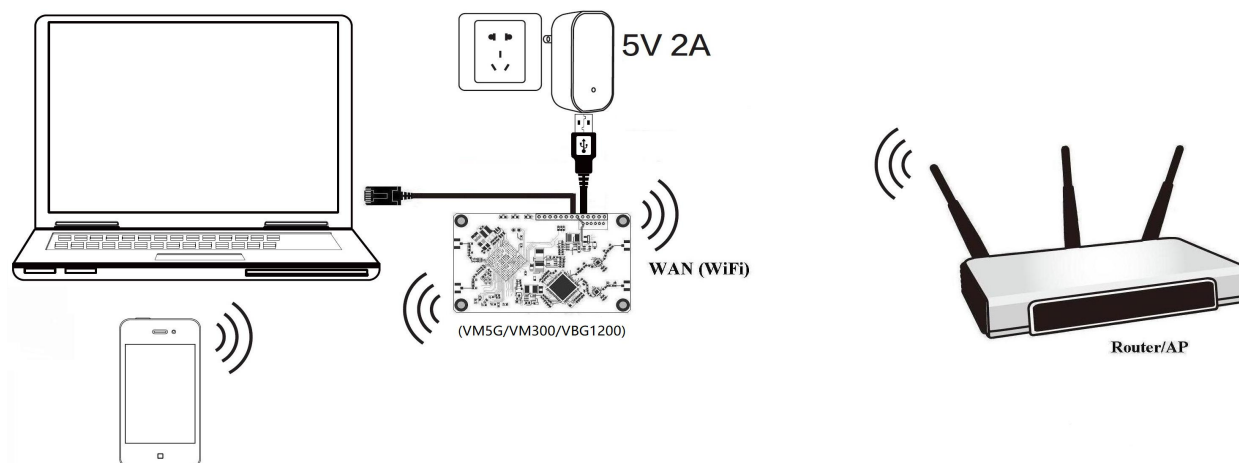
- VONETS module/WiFi product as WiFi router
The Ethernet port of **VM300-H/VM300-L** module/ **VAP11AC** finished product defaults to WAN port. The Ethernet cable defaults to the LAN port. WAN and LAN ports are interchangeable.



The Ethernet cable of **VM5G** module/**VBG1200/VAP11AC** WiFi product defaults to LAN port, you must set “WAN/LAN interchange” so that the Ethernet cable is WAN port to use the broadband dialing function.



- VONETS module/WiFi product is used as a wireless router. WAN port can be set to connect to the WiFi hotspot for use as a secondary router.



Chapter 2 Bridge+Repeater Mode Configuration

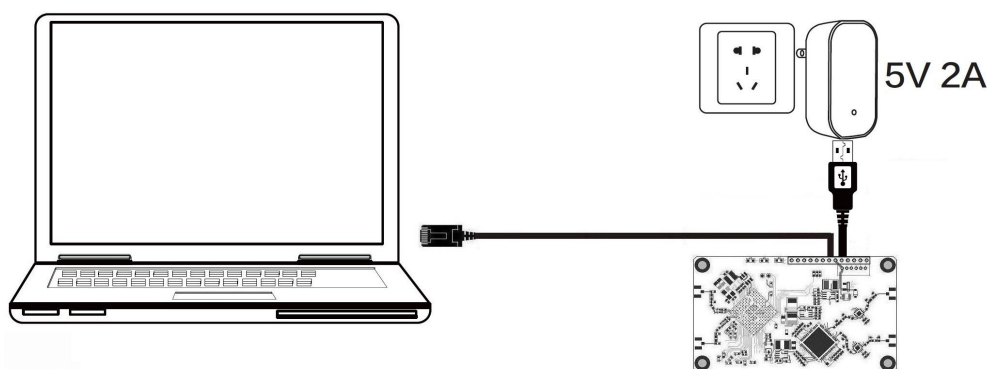
Instruction

2.1 Method 1: Log in to the device's Web configuration page to configure

2.1.1 Device Connection

Power on VONETS module/WiFi product by 5V/2A power supply, then connect to PC, there are two connection ways as below:

- A. Computer is wired connected to LAN port of VONETS module/WiFi product;

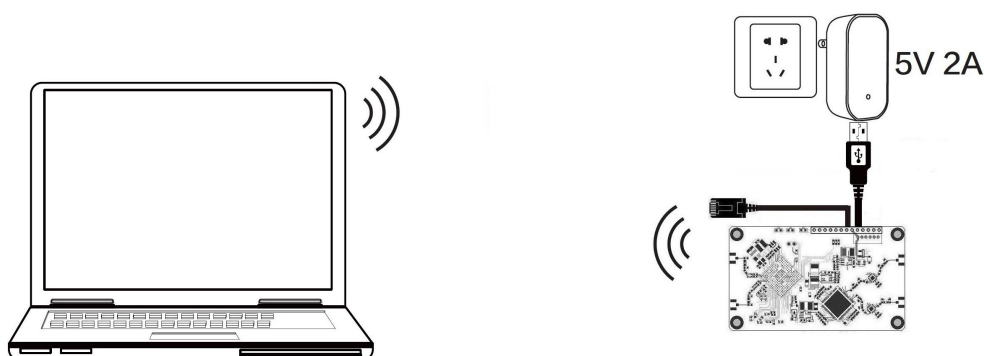


(Recommend Method)

- B. The computer wirelessly connects to the WiFi signal of VONETS module/WiFi product, its default hotspot parameters are as follows:

WiFi SSID: VONETS_***** (corresponding to VONETS device MAC address)

WiFi password: 12345678

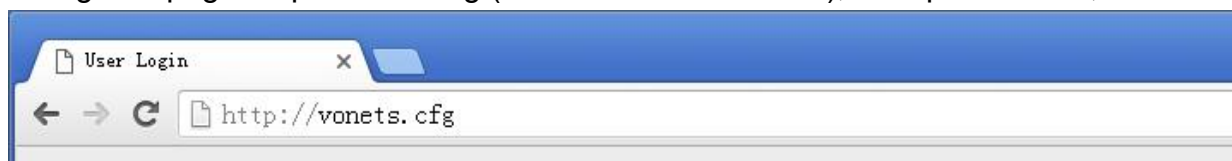


(After the WiFi parameters are configured, the WiFi will be disconnected, that is normal.)

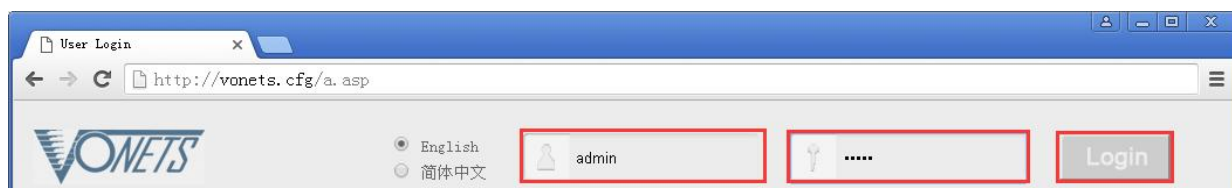
2.2 Bridge+Repeater Application Configuration

The configuration steps of VONETS module/WiFi product for WiFi repeater and WiFi bridge are basically the same, so this manual combines the configuration instructions of the two application modes.

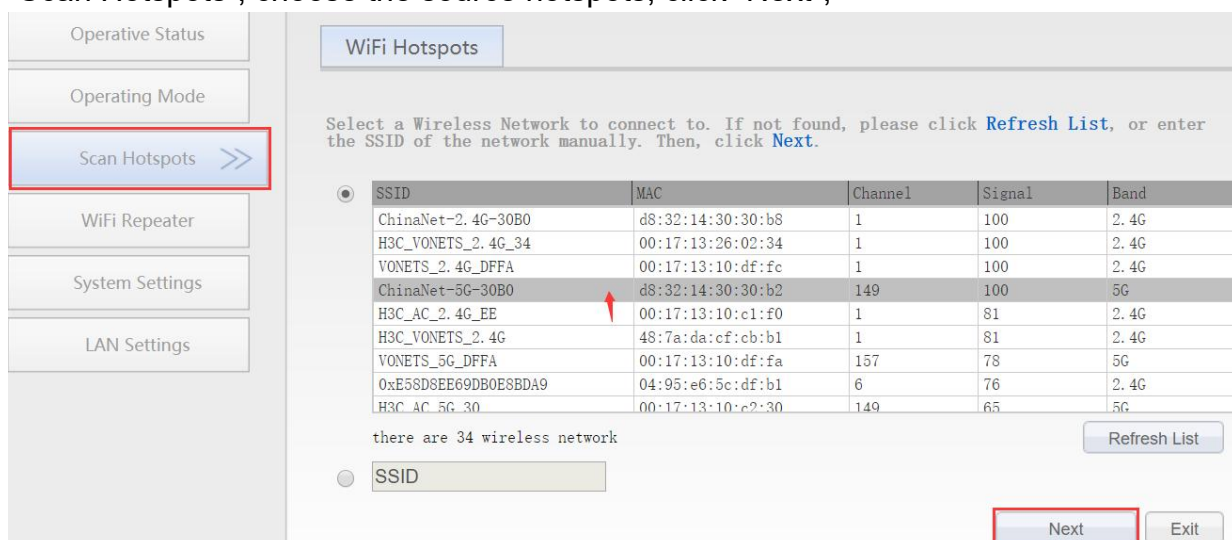
1. After computer is connected to VONETS module/WiFi product, open browser, input configured page: `http://vonets.cfg` (or IP: 192.168.254.254), then press Enter;



2. Input User name and Password in login page (both are “admin”), click “Login” button to enter configured page;



3. “Scan Hotspots”, choose the source hotspots, click “Next”;



4. Input “Source wireless hotspot password”, click “Apply”;
 - **IP layer transparent transmission** (factory default), transparent transmission of IP layer data, can meet most of WiFi bridge applications;
 - **MAC layer transparent transmission**, transparent transmission of all data above the MAC layer (link layer) and MAC layer, including IP layer data. MAC transparent transmission can solve some special applications for MAC layer encryption, such as GoPro camera, Cisco AP, Hikvision monitoring system, etc;
 - The option “**The configuration parameters of WiFi repeater security is synchronized with source hotspot**” is default ticked, it means the SSID of VONETS repeater is associated with the SSID of the source hotspot, and the WiFi password is the same as the password of the source hotspot;
 - **Disable hotspot**, if you select “Disable hotspot” on the right side of the SSID, the device will not transmit the corresponding hotspot and can only be used as a bridge application;

- **Advanced Setting**, include Hot spot authentication match mode, WiFi Signal Motion Detection and SSA Signal strength alarm threshold, these options here can be kept unchanged, for instructions on this option, go to www.vonets.com and download the “V Series WiFi Bridge Advanced Features Instruction”;

The screenshot shows the 'WiFi Hotspots' configuration page. On the left is a sidebar with buttons: Operative Status, Operating Mode, Scan Hotspots >>, WiFi Repeater, System Settings, and LAN Settings. The main content area has a 'WiFi Hotspots' header. Below it is the 'Security Settings' section with fields for SSID (ChinaNet-5G-30B0), Source WiFi hotspot password (empty), and Transmission mode (IP layer transparent selected). There are checkboxes for synchronization and disabling hotspot/WiFi hardware. Below this is the 'DHCP Server Settings' section with a 'Disable (Recommended configuration)' option selected. At the bottom, there is an 'Advanced Setting' section with a warning message and two buttons: 'Apply' (highlighted with a red box) and 'Back'.

5. Click “Reboot”, VONETS module will connect to the configured WiFi hotspot automatically, if connection is successful, the WiFi LED light will flash quickly;

This screenshot shows the same 'WiFi Hotspots' configuration page, but now the 'Source WiFi hotspot password' field contains 'Abc.12345'. At the bottom of the page, there are three buttons: 'Continue Add', 'To Connect', and 'Reboot' (highlighted with a red box). A message at the bottom states: 'If you want to add one more hotspot, please click “Continue Add” button. To make the new parameters effective, after parameters are configured, please click “Reboot” button.'

Remark 1:

LED Light Form			
Model	Blue Light	Green Light	Yellow Light
VM300-H/VM300-L	WiFi Connection Status Light	Ethernet Cable Connection Status Light	/
VM5G/VBG1200/VAP11AC	WiFi Connection Status Light	5G WiFi Connection Status Light	Ethernet Cable Connection Status Light

① VONETS module/WiFi product is not connected to any hotspot, WiFi connection status light will flash quickly;

② VONETS module/WiFi product is connected to hotspot successfully, WiFi connection status light will quick flash;

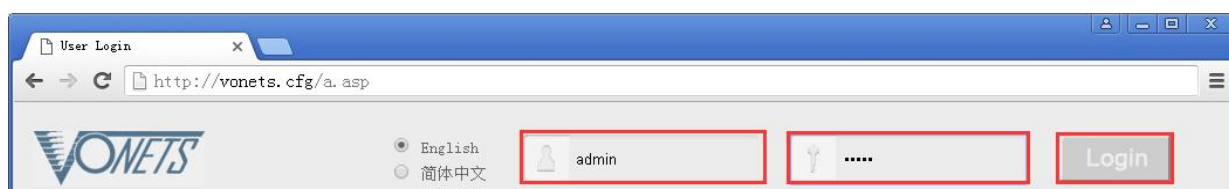
③ VONETS module/WiFi product is connected to hotspot successfully, but hotspot signal strength is less than 50% greater than 10%, WiFi status light will pause flash and flash;

④ VONETS module/WiFi product is connected to hotspot failed, WiFi connection status light will flash slowly.

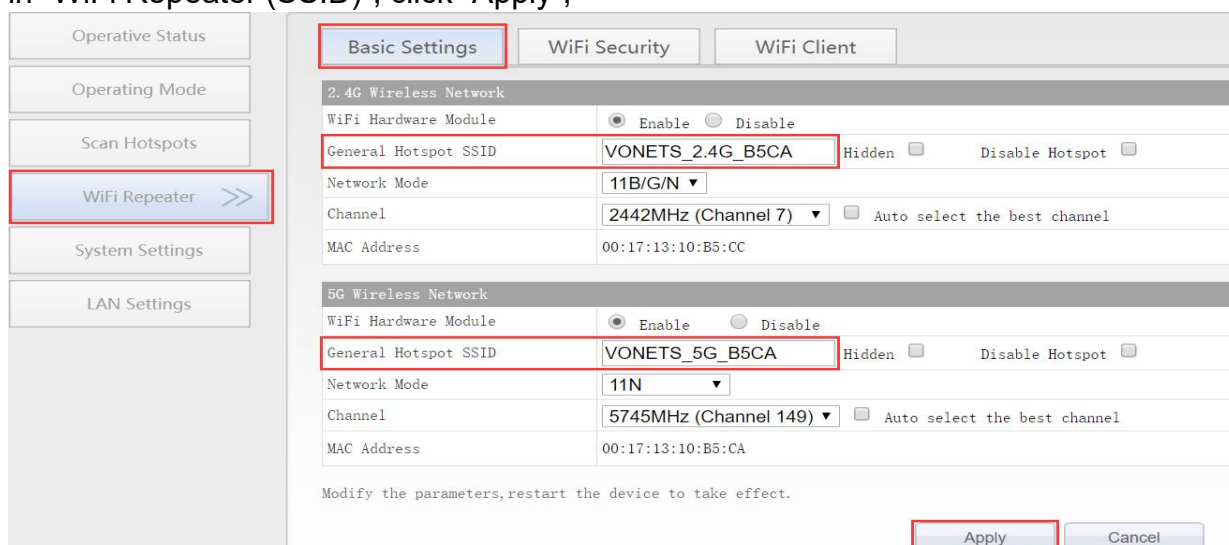
2.3 AP Application Configuration

VONETS module/WiFi product can be configured as an AP application. The wireless terminal device can connect to VONETS module/finished product hotspot to connect to the network; however, it is best to change its WiFi name and password for network security.

1. Log in to the configuration page <http://vonets.cfg> (or IP: 192.168.254.254) in your computer browser, both user name and password are “admin”



2. Revise WiFi name: Jump to “WiFi Repeater”---- “Basic Settings”, enter new WiFi name in “WiFi Repeater (SSID)”, click “Apply”;



- Revise WiFi password, in “WiFi Repeater”----“WiFi Security”, enter new WiFi password in “Pass Phrase”, click “Apply”;

- “WiFi Tx Power” of VONETS module/WiFi product can be changed, jump to “System Settings”---- “Advance Settings”, choose suitable transmit power, then click “Apply”;

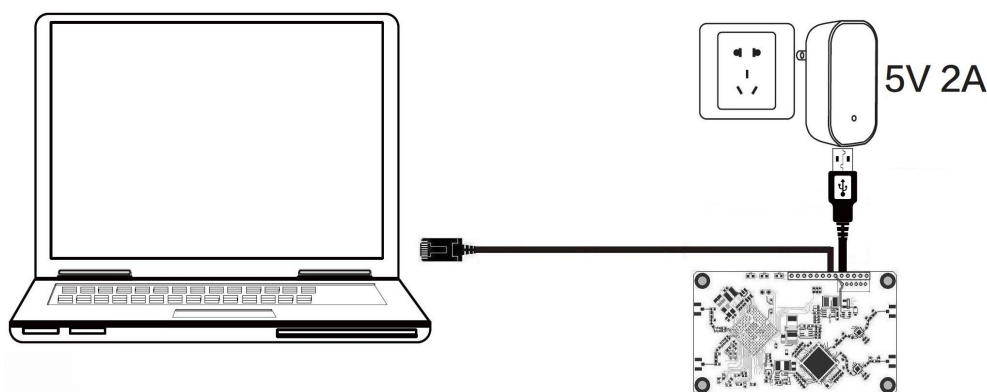
- Reboot device, jump to “System Settings”---- “Reboot Device”, click “Reboot”, when it is finished, all revised options will take effort.

Remark 2: When VONETS module/WiFi product connect to external network, its IP address will be changed. At this time, when log in configured page, we suggest you enter configured domain name: <http://vonets.cfg>. Or in Windows command window, enter the command: ping vonets.cfg, to get the IP address of the device, then log in configuration page by this IP address.

Chapter 3 Router Mode Configuration Instruction

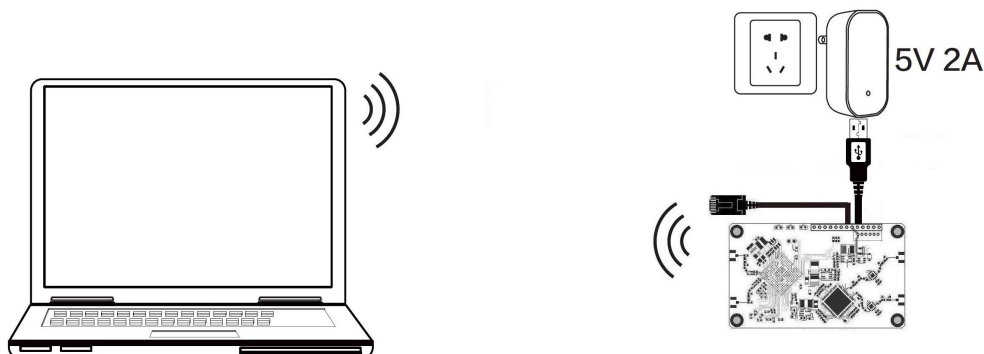
3.1 Change device mode

1. Power on VONETS module/WiFi product by 5V/2A power supply, then connect to PC, there are two connection ways as below:
 - A. Computer is wired connected to LAN port of VONETS module/WiFi product;



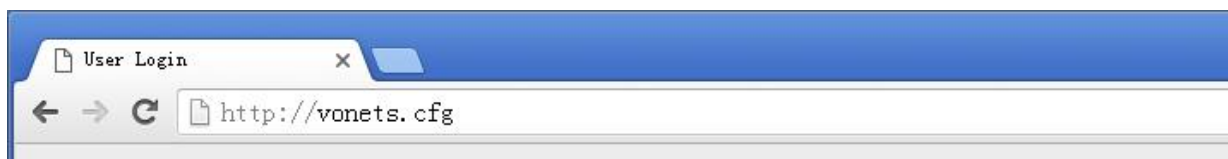
(Recommend Method)

- B. Computer wirelessly connects to the WiFi signal of VONETS module/WiFi product, its default hotspot parameters are as follows:
WiFi SSID: VONETS_***** (corresponding to VONETS device MAC address)
WiFi password: 12345678

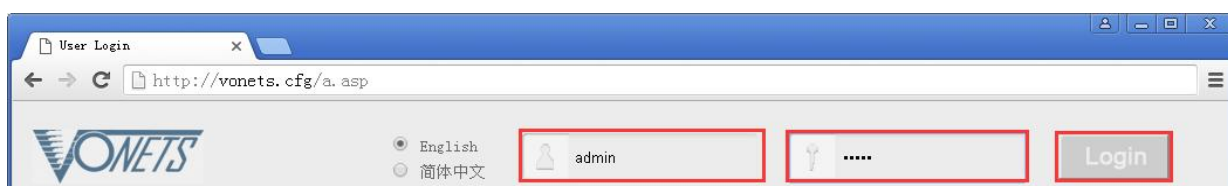


(After the WiFi parameters are configured, the WiFi will be disconnected, that is normal.)

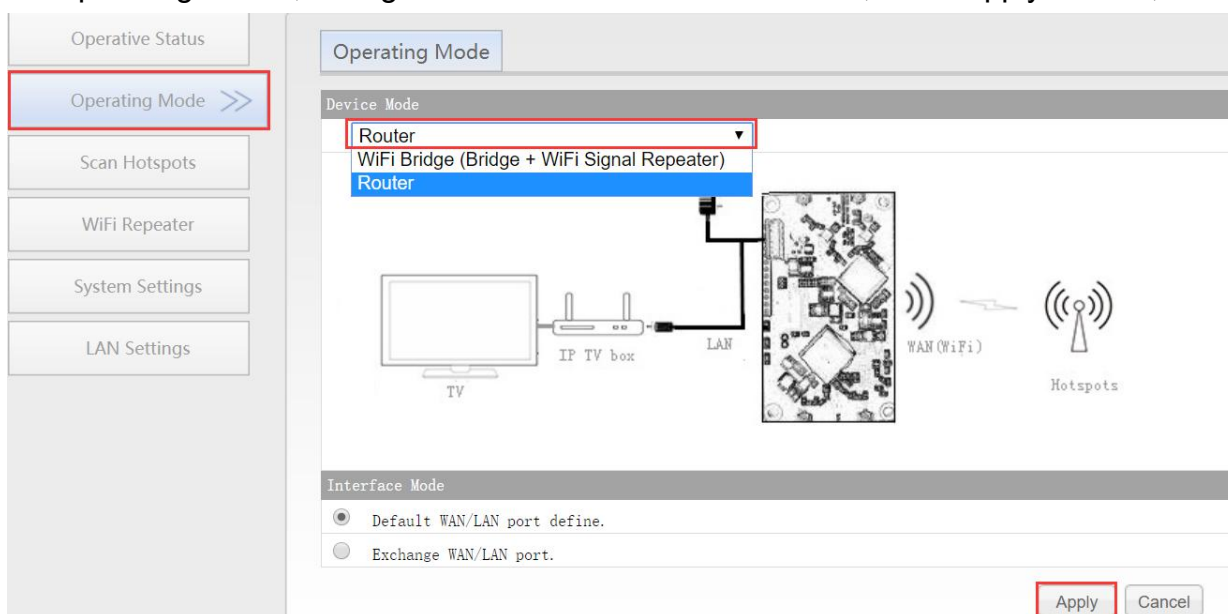
- After computer is connected to VONETS module/WiFi product, open browser, input configured page domain name: `http://vonets.cfg` (or IP: 192.168.254.254), then press Enter;



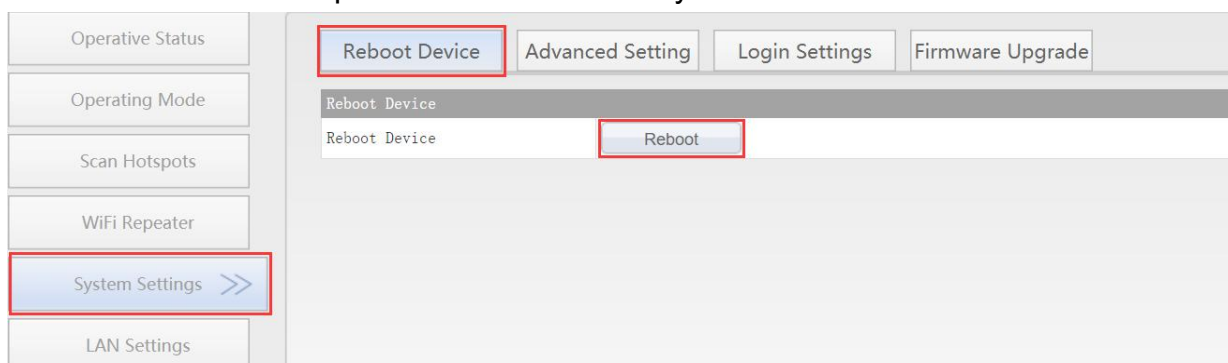
- Enter User name and Password in login page (both are "admin"), click "Login" button to enter configured page;



- In "Operating Mode", change Device mode to "Router" mode, click "Apply" button;



- Reboot device: go to "System Settings"-- "Reboot device", click "Reboot" button, VONETS module/WiFi product will automatically switch to router mode.



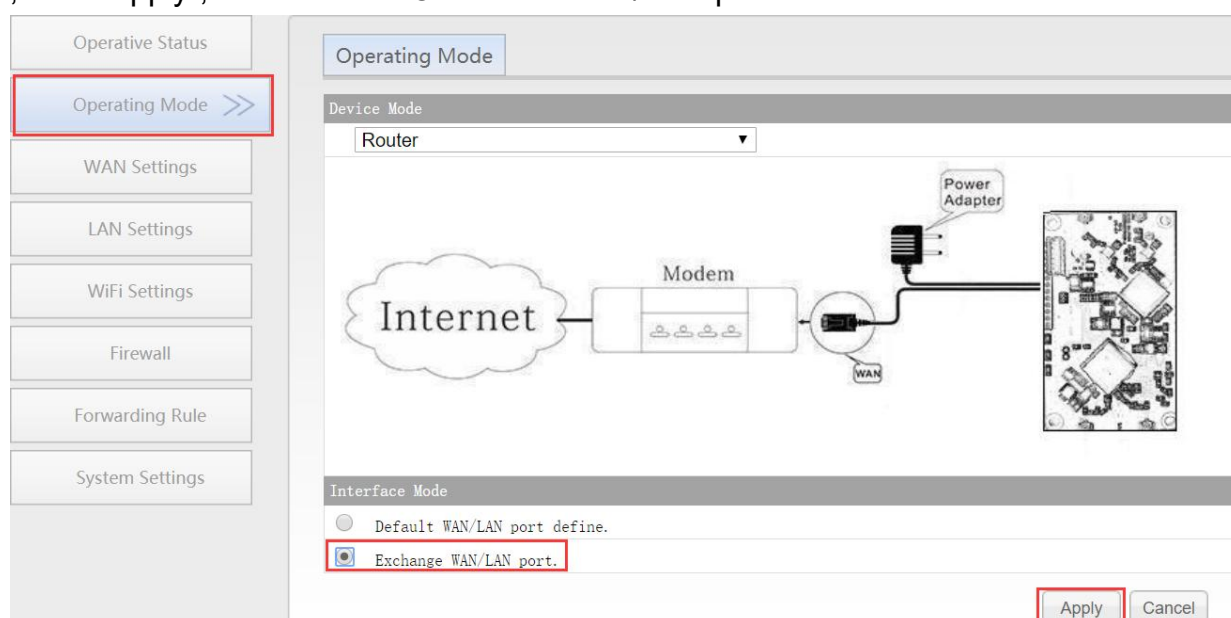
3.2 WAN port setting

3.2.1 WAN/LAN exchange

In routing mode, the Ethernet port of VONETS module/WiFi product is divided into a WAN port and a LAN port, and WAN/LAN can be interchanged.

The Ethernet port of **VM300-H/VM300-L** module / **VAP11AC** finished product defaults to WAN port. The Ethernet cable defaults to LAN port. If the interface mode is changed to “WAN/LAN exchange”, the Ethernet cable will be WAN port and the Ethernet port will be LAN port.(This option can keep unchanged);

The Ethernet cable of **VM5G/VBG1200 /VAP11AC** WiFi product defaults to LAN port, the interface mode must be changed to “WAN/LAN interchange” to make Ethernet cable to WAN port, click “Apply”, then reboot VONETS module/WiFi product.



3.2.2 WAN Port connection method

By setting the WAN port of the router, you can change the network connection type according to the actual needs of the individual, there are three types of WAN port connections commonly used in the routing mode of the VONETS module/WiFi product: DHCP(Auto Config), PPPoE(ADSL) and WiFi. DHCP and PPPoE are wired connections, and the WAN port needs to be connected to the source network through a wired connection:

- DHCP(Auto Config): WAN port connection type is selected as “**DHCP(Auto Config)**”, VONETS module/WiFi product will automatically obtain IP address from source network;
- PPPoE(ADSL): WAN port connection type is selected as “**PPPoE**”, that is, ADSL virtual dialing mode requires ISP (Internet Service Provider) to provide Internet account and password.
- WiFi: WAN port connection type is selected as “**WiFi**”, VONETS module/WiFi product

uses a built-in WiFi network card (used to connect to the source hotspot) as a WAN port, and all Ethernet ports as LAN ports, while providing WiFi hotspot functions.

3.2.3 WAN port wired connect network——DHCP

The default WAN port connection mode of VONETS is DHCP. The WAN port can automatically obtain an IP address after connecting with the source network.

The screenshot shows the 'Basic Settings' tab in the VONETS configuration interface. On the left sidebar, 'WAN Settings' is highlighted with a red box and a double arrow. The main content area shows the 'WAN Connection Type' set to 'DHCP (Auto config)'. Below this, 'Remote Management' is set to 'Disable'. The 'DHCP Mode' section includes a 'Hostname' field with 'VONETS.COM' and a 'MAC Clone' section with a 'MAC Address' field and a 'Get PC MAC' button. A note at the bottom states: 'Modify the parameters, restart the device to take effect.' There are 'Apply' and 'Cancel' buttons at the bottom right.

3.2.4 WAN port wired connect network——PPPoE

In “WAN settings”, select “Basic settings”, change the connection type to “PPPoE (ADSL)”, then enter the Internet account and password provided by the ISP (Internet Service Provider), click the “Apply” button, and then reboot VONETS module/WiFi product, then can access to network.

The screenshot shows the 'Basic Settings' tab in the VONETS configuration interface. On the left sidebar, 'WAN Settings' is highlighted with a red box and a double arrow. The main content area shows the 'WAN Connection Type' set to 'PPPoE (ADSL)'. Below this, 'Remote Management' is set to 'Disable'. The 'PPPoE Mode' section includes a 'User Name' field with '15278511540@163.sz.com', a 'Password' field with masked characters, and an 'Operation Mode' dropdown set to 'Always on'. Below the dropdown, there are fields for 'Always on mode: Redial Period' (60 seconds) and 'Dial on Demand mode: Idle Time' (5 minutes). The 'MAC Clone' section includes a 'MAC Address' field and a 'Get PC MAC' button. A note at the bottom states: 'Modify the parameters, restart the device to take effect.' There are 'Apply' and 'Cancel' buttons at the bottom right.

3.2.5 WAN port wireless connect network---- WiFi

1. In “WAN Settings”, select “Basic Settings”, change Connection type to “WiFi”, then click “Scan Hotspots” to enter the scanning hotspot list.

The screenshot shows the WAN Settings interface. On the left sidebar, 'WAN Settings' is selected. The main panel has tabs for 'Basic Settings' and 'DDNS'. Under 'Basic Settings', the 'WAN Connection Type' is set to 'WiFi'. The 'Remote Management' is set to 'Disable'. The 'WiFi Mode' section shows 'SSID', 'MAC Address', 'Security Mode', 'Encryption Type', 'Channel', and 'Connection Status' (Disconnected). The 'Scan Hotspots' button is highlighted with a red box. Below this, there is a 'MAC Clone' section with a 'MAC Address' field and a 'Get PC MAC' button. At the bottom, there are 'Apply' and 'Cancel' buttons.

2. Choose the source hotspots, click “Next”;

The screenshot shows the WiFi Security interface. On the left sidebar, 'WiFi Settings' is selected. The main panel has tabs for 'Basic Settings', 'WiFi Security', and 'WiFi Client'. The 'WiFi Security' tab is active. It displays a list of wireless networks with columns: SSID, MAC, Channel, Signal, and Band. The 'ChinaNet-5G-30B0' network is selected. Below the list, there is a 'Refresh List' button. At the bottom, there are 'Next' and 'Exit' buttons. The 'Next' button is highlighted with a red box.

SSID	MAC	Channel	Signal	Band
VONETS_2.4G_DFFA	00:17:13:10:df:fc	1	100	2.4G
ChinaNet-2.4G-30B0	d8:32:14:30:30:b8	1	100	2.4G
H3C_AC_2.4G_EE	00:17:13:10:c1:f0	1	100	2.4G
H3C_VONETS_2.4G_34	00:17:13:26:02:34	1	100	2.4G
ChinaNet-5G-30B0	d8:32:14:30:30:b2	149	100	5G
H3C_VONETS_2.4G	48:7a:da:cf:cb:b1	1	91	2.4G
H3C_AC_5G_30	00:17:13:10:c2:30	149	83	5G
VONETS_5G_DFFA	00:17:13:10:df:fa	157	78	5G
VONETS_INIT_2G4	00:17:13:10:d3:d2	7	65	2.4G

3. Input “Source wireless hotspot password”, click “Apply”
 - The option “**The configuration parameters of WiFi repeater security is synchronized with source hotspot**” is default ticked, it means the SSID of VONETS repeater is associated with the SSID of the source hotspot, and the WiFi password is the same as the password of the source hotspot;
 - **Disable hotspot**, if you select “Disable hotspot” on the right side of the SSID, the device will not transmit the corresponding hotspot and can only be used as a bridge application;
 - **Advanced Setting**, include Hot spot authentication match mode, WiFi Signal Motion Detection and SSA Signal strength alarm threshold, these options here can be kept

unchanged, for instructions on this option, go to www.vonets.com and download the “V Series WiFi Bridge Advanced Features Instruction”;

- Click “Reboot”, VONETS module/WiFi product will connect to the configured WiFi hotspot automatically, if connection is successful, the WiFi LED light will flash quickly;(Please refer to Remark 1 for the description of the LED light.)

Remark 3: After VONETS module/WiFi product sets the WAN port to access the WiFi hotspot in the routing mode, its LAN port IP is still 192.168.254.254, and the terminal device also obtains the IP address of the same network segment, can login configuration page by 192.168.254.254 or <http://vonets.cfg>.

3.3 Set WiFi hotspot parameters

- Revise WiFi name: Jump to “WiFi Repeater”---- “Basic Settings”, enter new WiFi name in “WiFi Repeater (SSID)”, click “Apply”;

The screenshot shows the 'Basic Settings' tab for the Vonets Wireless Module. The left sidebar contains a menu with 'WiFi Settings' highlighted. The main content area is divided into two sections: '2.4G Wireless Network' and '5G Wireless Network'. In the 2.4G section, 'WiFi Hardware Module' is set to 'Enable', 'General Hotspot SSID' is 'VONETS_2.4G_B5CA', 'Network Mode' is '11B/G/N', 'Channel' is '2442MHz (Channel 7)', and 'MAC Address' is '00:17:13:10:B5:CC'. In the 5G section, 'WiFi Hardware Module' is set to 'Enable', 'General Hotspot SSID' is 'VONETS_5G_B5CA', 'Network Mode' is '11N', 'Channel' is '5745MHz (Channel 149)', and 'MAC Address' is '00:17:13:10:B5:CA'. At the bottom, there is a note 'Modify the parameters, restart the device to take effect.' and two buttons: 'Apply' and 'Cancel'.

2. Revise WiFi password, in “WiFi Repeater”----“WiFi Security”, enter new WiFi password in “Pass Phrase”, click “Apply”;

The screenshot shows the 'WiFi Security' tab for the Vonets Wireless Module. The left sidebar contains a menu with 'WiFi Settings' highlighted. The main content area is divided into two sections: '[2.4G] WiFi Security' and '[5G] WiFi Security'. In the 2.4G section, 'Repeater SSID' is 'VONETS_2.4G_B5CA', 'Security Mode' is 'WPA2PSK-WPA2PSK', 'WPA Algorithms' are 'TKIP' and 'AES', and 'Pass Phrase' is '12345678'. In the 5G section, 'Repeater SSID' is 'VONETS_5G_B5CA', 'Security Mode' is 'WPA2PSK-WPA2PSK', 'WPA Algorithms' are 'TKIP' and 'AES', and 'Pass Phrase' is '12345678'. At the bottom, there is a note 'Modify the parameters, restart the device to take effect.' and two buttons: 'Apply' and 'Cancel'.

3. Reboot device, jump to “System Settings”---- “Reboot Device”, click “Reboot”, when it is finished, all revised options will take effort.

The screenshot shows the 'Reboot Device' tab for the Vonets Wireless Module. The left sidebar contains a menu with 'System Settings' highlighted. The main content area has a 'Reboot Device' section with a single button labeled 'Reboot'. At the bottom, there is a note 'Modify the parameters, restart the device to take effect.' and two buttons: 'Apply' and 'Cancel'.

Appendix Frequently Asked Questions

1. How to restore the factory default parameters of the VONETS module/WiFi product?

Please refer to the information below to reset the factory default parameters of the VONETS module/WiFi product:

VM300-H/VM300-L: After the device is powered on for about 50 seconds, press and hold the Reset button for 5 seconds and then release, the blue indicator light will flash a few times, and then the device will automatically restore the factory default parameters (the restoring process takes about 60 seconds). During operation, the product cannot be powered down, otherwise it may cause damage to the product.

http://www.vonets.com/serviceView.asp?D_ID=213

VM5G: After the device is powered on for about 50 seconds, press and hold the Reset button for 5 seconds and then release, the blue indicator light will flash a few times, and then the device will automatically restore the factory default parameters (the restoring process takes about 60 seconds). During operation, the product cannot be powered down, otherwise it may cause damage to the product.

http://www.vonets.com/serviceView.asp?D_ID=306

VBG1200/VAP11AC: After the device is powered on for about 60 seconds, press and hold the Reset button for 5 seconds and then release, the blue indicator light will flash a few times, and then the device will automatically restore the factory default parameters (the restoring process takes about 80 seconds). During operation, the product cannot be powered down, otherwise it may cause damage to the product.

2. Does VONETS module/WiFi product support firmware upgrade, how to upgrade?

VONETS module/WiFi product supports firmware upgrade, and support online upgrade, please visit website: www.vonets.com to refer to the related documents.

3. The device WiFi hot spot can be found, but the smart phone or PC can't connect to this device hotspot?

- Reason 1. Due to some unexpected operation or power down, caused the destroy of device parameters. At this time, just need to reset the device to factory default parameters;
- Reason 2. The device WiFi doesn't work at the best channel, make the performance worse. At this time, you can try to change the source WiFi hot spot and this device WiFi channel to make the performance better;
- Reason 3. The smart phone or PC haven't been configured the correct WiFi password.

4. The device has been configured the source WiFi hot spot parameters, the smart phone or PC has connected to the device WiFi hot spot, but still doesn't get internet?
 - First, check the status light to know the current state of the device, then according to the state of the device to analyze the fault reasons;
 - Reason 1. The distance between the device and source WiFi hot spot is too long, cause the communication performance degradation, finally effect the user's access to the Internet. At this time, just need shorten the distance between the device and source WiFi hot spot to solve this problem;
 - Reason 2. Due to some unexpected operation or power down, caused the destroy of device parameters. At this time, just need to reset the device to factory default parameters;
 - Reason 3. The device WiFi doesn't work at the best channel, make the performance worse. At this time, you can try to change the source WiFi hot spot WiFi channel to make it the same as the default channel of the device, the reboot the device, the device will automatically exchange to the same channel as the source WiFi hotspot, to make the performance better;
 - Reason 4. There are several WiFi hot spot around the device, WiFi channel mutual interference, make the performance worse. At this time, you can try to change the source WiFi hot spot and this device WiFi channel to make the performance better;
 - Reason 5. The configured source WiFi hot spot parameters are not correct. At this time, just need to configure the correct parameters then reboot the device;
5. The smart phone or PC has been connected the device by WiFi or Ethernet cable, but user can't log in the device WEB page, or after log in the WEB it shows error?
 - Reason 1. The users don't use the browser recommended by VONETS(IE,Google Chrome, Safari, the mobile phone browser);
 - Reason 2. The smart phone or PC installed the firewall, the security level is set too high, caused the above problem. At this time, only need to close the firewall;
 - Reason 3. The security level of browser is too high, it will also cause the above problem. At this time, just need to reduce the browser's security level, then log in again;
 - Reason 4. The IP address of the device input error. For the new device from the factory, user only need input the correct IP address according to the instruction guide; for the device that has connected the source hot spot, user only operate according to <Remark 2>.

FCC STATEMENT :

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Operation of this device in the band 5150-5250 MHz is restricted to indoor use only