

Gigabit Industrial Bridge Repeater VAR1200-H/VAR1200-L/VAR1800-H/ VAR1800-L/VAR600-H/VAR600-L

Quick Setting Guide

Statement

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Notice

The parameters used in the screenshots shown in this manual are only for reference of setting examples and may not be completely consistent with the actual situation. Please set the parameters according to your actual needs.

Due to different software versions, the screenshots shown in this manual may not be exactly the same as the web interface of the product you purchased. Please configure your product according to the actual web interface.

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);

3. POE related issues:

- 3.1 If the product has PSE function (POE output), it needs 48V power supply voltage and meets the power requirements of POE output before it can be used;
- 3.2 If the network port of the product has a POE output port, if it is connected to other non-POE network ports, please use it with caution, and ensure that the access network port is isolated from the ground, otherwise it may cause damage to the connected product!
- The safest way is: let the product use a two-pin switching power supply without ground (AC TO DC, AC input is two-pin instead of three-pin).

The adapter power supply in all the schematic diagrams shown in the following figures are externally connected to the power supply.

	Transmission distance parameter table (Table 1)						
Model Number	Antenna type	Frequency Band		Barrier-free point-to-point transmission distance(for reference only)	Transmission Rate (Mbps)		
VAR1200-H Exter	Extornal	Dual Frequency	2.4GHz	400m500m	300		
	External		5GHz	400m	900		
VAR1200-L	Built in		2.4GHz	300m400m	300		
VAR1200-L			5GHz	300m	900		
VAR1800-H	External		5GHz	400m	1800		
VAR1800-L	Built in	Single	5GHZ	300m	1800		
VAR600-H	External	Frequency	2 404-	500m	600		
VAR600-L	Built in		2.4GHz	400m	600		

F	ower Supply Para	ameter Table (Ta	able 2)		
Model Number	Wide voltage p	Output Power	Typical power supply	Ripple	
VAR1200-H/VAR1200-L	No POE output power supply	DC12V48V	≥30W	12V/3A	<100mV
VAR1800-H/VAR1800-L VAR600-H/VAR600-L	With POE output power supply	DC48V	≥57W	48V/1.2A	<200mV
The standard kit of this pr supply carefully according performance may be degr	to "Table 2", othe	-			-

Notice:

In the actual application environment, if the POE output port (PSE) is connected to a non-POE network port (PD is an access network port), please use it with caution, and ensure that the access network port is isolated from the power ground, otherwise it may cause the access device to fail. damage! When the power input is 48V (≥57W), the POE output is valid!

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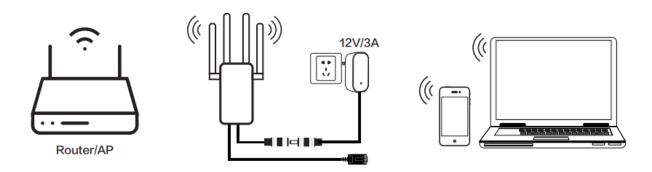
Chapter 1 Application Mode

1.1 Bridge + Repeater Mode(In the actual application environment, if the POE output port (PSE) is connected to a non-POE network port (PD is an access network port), please use it with caution, and ensure that the access network port is isolated from the power supply ground, otherwise it may cause the access device. damage!)

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

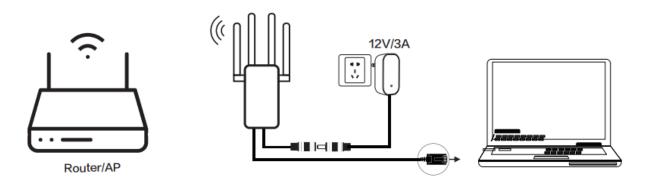
• WiFi Repeater:

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



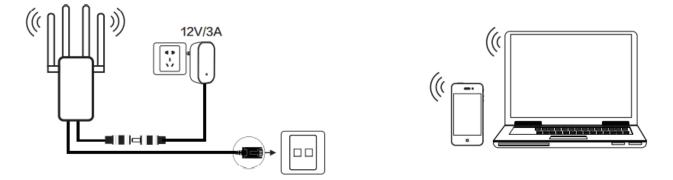
• WiFi Bridge:

VONETS device 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.



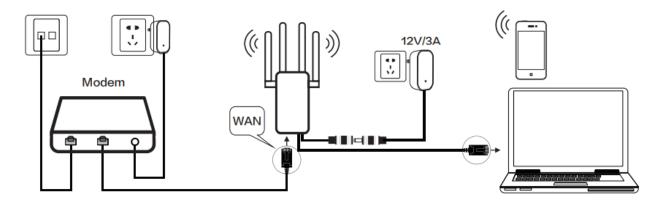
• WiFi AP:

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

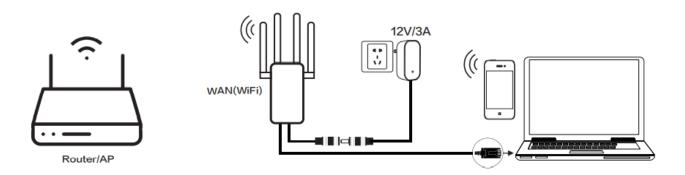


1.2 Router Mode(In the actual application environment, if the POE output port (PSE) is connected to a non-POE network port (PD is an access network port), please use it with caution, and ensure that the access network port is isolated from the power supply ground, otherwise it may cause the access device. damage!)

 The VONETS device is used as a wireless router. The default Ethernet port is the WAN port, and the default Ethernet cable is the LAN port. The WAN and LAN ports are interchangeable (the shell is marked with WAN/LAN ports);



• The VONETS device is used as a wireless router, and the WAN port can be set to connect to a WiFi hotspot and used as a secondary router. Its Ethernet port and Ethernet cable are both LAN ports.

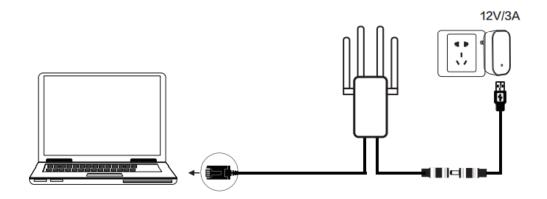


Chapter 2 Bridge+Repeater Mode Configuration Instruction

2.1 Device connect(In the actual application environment, if the POE output port (PSE) is connected to a non-POE network port (PD is an access network port), please use it with caution, and ensure that the access network port is isolated from the power supply ground, otherwise it may cause the access device. damage!)

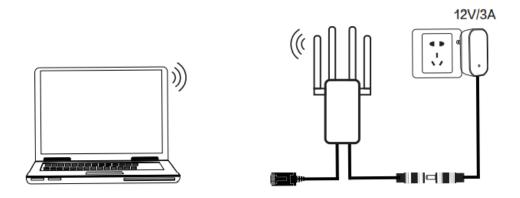
Power on VONETS device by 12V/3A power supply, then connect to PC, there are two connection ways as below:

A. Computer is wired connected to LAN port of VONETS device;



(Recommend Method)

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

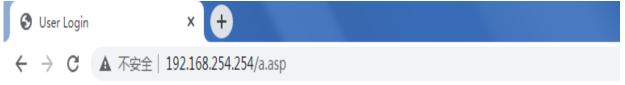


(After the WiFi parameters are configured, the WiFi will be disconnected, that is normal.)

2.2 Bridge+Repeater Application Configuration

The configuration steps of VONETS device 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 device, 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;

🕲 User Login X 🕂				
← → C ▲ 不安全 192.168.254.254/a.asp				🌳 🖻 🖈 🔲 😩 📑
ONETS	○ English ● 中文	admin]	Login

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

Operative Status	WiFi Hotspots				
Operating Mode					
Scan Hotspots 🚿	the network manually. Then, click	MAC	Channel	Signal	Band
WiFi Repeater	VONETS_Special2.4G_0162	00:17:13:a1:01:67	7	100(-37dbm)	2.4G
	VONETS_2.4G_1_0162	00:17:13:a1:01:65	7	100(-37dbm)	2.4G
System Settings	VONETS_Office2.4G_0162	00:17:13:a1:01:66	7	100(-37dbm)	2.4G
System settings	ChinaNet-SYaT	18:52:82:23:a6:fd	13	100(-47dbm)	2.4G
	ChinaNet-I6Ij	c8:50:e9:e9:a4:28	10	100(-50dbm)	2.4G
	H3C_VONETS_2.4G	48:7a:da:cf:cb:b1	5	96(-52dbm)	2.4G
LAN Settings	GT05	00:0e:1f:7e:48:ee	36	78(-59dbm)	5G
LAN Settings	LIGO MONETO CO	48:7a:da:cf:cb:a0	161	73(-61dbm)	5G
LAN Settings Timing Function	H3C_VONETS_5G			work	
	H3C_VONETS_5G	there ar	re 74 wireless netv	NOIN	

- 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";

Operating Mode	Security Settings			
	SSID	VONETS_2.4G_1_0162		
Scan Hotspots 📎	Source WiFi hotspot password			
WiFi Repeater	Application type of Src-Hotspot	Normal hotspot O Emergency co	onnection	
	Transmission mode	● IP layer transparent ○ MAC laye	er transparent	
System Settings	The configuration parameter	The configuration parameters of WiFi repeater security is synchronized with source hotspot		
LAN Settings	2.4G WiFi Repeater SSID	VONETS_2.4G_1_0162_2.4G_8(VONETS_Office2.4G_0180 VONETS_Special2.4G_0180	 Disable Hotspot Disable Hotspot Disable Hotspot 	
Timing Function	5G WiFi Repeater SSID	VONETS_2.4G_1_0162_5G_80 VONETS_Office5G_0180 VONETS_Special5G_0180	 Disable Hotspot Disable Hotspot Disable Hotspot 	
		VONETS_Special5G_0180	✓ Disable Hotspot	

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

Operative Status	WiFi Hotspots			
Operating Mode	Source WiFi hotspot password	12345678		
	Application type of Src-Hotspot	Normal hotspot O Emergency control	onnection	
Scan Hotspots >>>	Transmission mode	● IP layer transparent ○ MAC lay	er transparent	
WiFi Repeater	The configuration parameter	ers of WiFi repeater security is synchron	ized with source hotspot	
System Settings	2.4G WiFi Repeater SSID	VONETS_2.4G_1_0162_2.4G_8(VONETS_Office2.4G_0180 VONETS_Special2.4G_0180	 Disable Hotspot Disable Hotspot Disable Hotspot 	
LAN Settings	5G WiFi Repeater SSID	VONETS_2.4G_1_0162_5G_80 VONETS_Office5G_0180 VONETS_Special5G_0180	 Disable Hotspot Disable Hotspot Disable Hotspot 	
	Advanced Setting (For specific		Disable Hotspot	
	If you want to add one more hot	spot, please click "Continue Add" buttor	1.	Continue Add To Connect
	To make the new parameters ef	fective, after parameters are configured	, please click "Reboot" button.	Reboot

Remark 1:		LED Light Form		
Model	Blue Light	Green Light	Yellow Light	Red Light
VAR1200-H/VAR1200	2.4G Connection	5G Connection		
-L	Status Light	Status Light	Ethornot Coblo	
VAR1800-H/VAR1800	1	5G Connection	Ethernet Cable Connection	POE Output connection
-L	/	Status Light		
	2.4G Connection	1	Status Light	light
VAR600-H/VAR600-L	Status Light	1		

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

- ② VONETS device is connected to hotspot successfully, but hotspot signal strength is greater than 50%, WiFi connection status light will quick flash;
- ③ VONETS device is connected to hotspot successfully, but hotspot signal strength is less than

50% greater than 10%, WiFi status light will pause flash and flash; VONETS device is connected to hotspot failed, WiFi connection status light will flash slowly.

2.3 AP Application Configuration

VONETS device can be configured as an AP application, the wireless terminal device can connect to VONETS device 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: 192.168.254.254you're your computer browser, both user name and password are "admin";

S User Login × +	1000		
← → C ▲ 不安全 192.168.254.254/a.asp			🌳 🖻 🖈 🔲 😩 🌉 🔋
VONETS'	〇 English ● 中文	admin	Login

 Change the WIFI name: select "Basic Settings" in "WIFI Relay", enter the new WIFI name in the text box after the SSID, and click the "Apply" button; Note: There are a total of 6 hotspots in dual-band, you can set the account name and password accordingly;

Operative Status	Basic Settings	WiFi Security WiFi Client
Operating Mode	2.4G Wireless Network	
	WiFi Hardware Module	Enable Disable
Scan Hotspots	General Hotspot SSID	VONETS_2.4G_1_0180 Hidden Disable Hotspot
WiFi Repeater >>	General Hotspot 351D	00:17:13:A1:01:83
wiri kepeater	Office Hotspot SSID1	VONETS_Office2.4G_0180 Hidden Disable Hotspot
System Settings		00:17:13:A1:01:84
-)	Special Hotspot SSID2	VONETS_Special2.4G_0180 Hidden Disable Hotspot
LAN Settings		00.17.13.A1.01.85
	Network Mode	11B/G/N ✓
iming Function	Select channel range	1~14 🗸
	Channel	2442MHz (Channel 7) 🗸 🗆 Auto select the best channel
	WiFi Tx Power	Normal Power(19dBm) Enhanced Power(25dBm)
	5G Wireless Network	
	WiFi Hardware Module	Enable Disable
	General Hotspot SSID	VONETS_5G_1_0180 Hidden Disable Hotspot
	Ceneral Hotspot COID	00:17:13:A1:01:80

3. Revise WiFi password, in "WiFi Repeater"---"WiFi Security", enter new WiFi password in "Pass Phrase", click "Apply";

Operative Status	Basic Settings Wi	Fi Security WiFi Client
Operating Mode	[2.4G] WiFi Security	
	Repeater SSID	VONETS_2.4G_1_0180 V
Scan Hotspots	Security Mode	VONETS_2.4G_1_0180 VONETS_Office2.4G_0180
WiFi Repeater >>	WPA Algorithms	VONETS_Special2.4G_0180
	Pass Phrase	12345678 (8-63 characters or 64 hex numbers)
System Settings	SSID	Pass Phrase
	VONETS_2.4G_1_0180	12345678
LAN Settings	VONETS_Office2.4G_0180	12345678
EAN Settings	VONETS_Special2.4G_0180	12345678
Timine Function	[5G] WiFi Security	
Timing Function	Repeater SSID	VONETS_5G_1_0180 V

4. "WiFi Tx Power" of VONETS device can be changed, jump to "System Settings"----"Advance Settings", choose suitable transmit power, then click "Apply";

Operating Mode	5G Wireless Network	
	WiFi Hardware Module	Enable Disable
Scan Hotspots	General Hotspot SSID	VONETS_5G_1_0180 Hidden Disable Hotspot
WiFi Repeater 🛛 >>	General Hotspot 331D	00:17:13:A1:01:80
	Office Hotspot SSID1	VONETS_Office5G_0180 Hidden Disable Hotspot
System Settings	Chice Hotspot SSID I	00:17:13:A1:01:81
	Special Hotspot SSID2	VONETS_Special5G_0180 Hidden Disable Hotspot
LAN Settings	opecial hotspot 00102	00:17:13:A1:01:82
	Network Mode	11AC/AN/A 🗸
iming Function	Select channel range	36~64,100~140,149~165
	Channel	5180MHz (Channel 36) 🗸 🗆 Auto select the best channel
	WiFi Tx Power	Normal Power(19dBm) Enhanced Power(21dBm)
	Bandwidth	0 20/40 0 80 160 80+80
	Modify the parameters, restart t	the device to take effect.

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

Operative Status	Reboot Device Advanced Setting Login Settings Firmware Upgrade
Operating Mode	Reboot Device
Scan Hotspots	Reboot Device Reboot
WiFi Repeater	
System Settings 🚿	
LAN Settings	

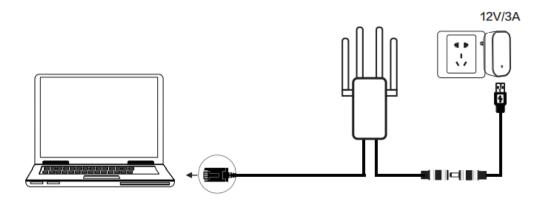
Remark 2: When VONETS device connects to external network, its IP address will be changed. At this time, when log in configured page, we suggest you enter configured domain name: http://vonets.cfg. Or in Windows command window, enter the command: ping vonets.cfg, to get the IP address of the device,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

Chapter 3 Router Mode Configuration Instruction

3.1 Change device mode (In the actual application environment, if the POE output port (PSE) is connected to a non-POE network port (PD is an access network port), please use it with caution, and ensure that the access network port is isolated from the power supply ground, otherwise it may cause the access device. damage!)

1. Power on VONETS device by 12V/3A power supply, then connect to PC, there are two connection ways as below:

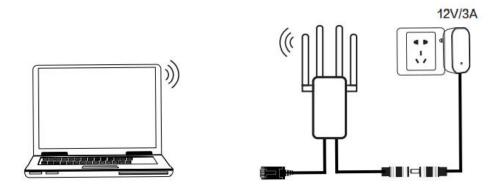
A. Computer is wired connected to LAN port of VONETS device;



(Recommend Method)

B. Computer wirelessly connects to the WiFi signal of VONETS device, 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. After computer is connected to VONETS device, open browser, input configured page domain name: http://vonets.cfg (or IP: 192.168.254.254), then press Enter;

🕒 Vser Login 🛛 🗙 🔼	
← → C http://vonets.cfg	

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

🕒 User Login 🛛 🗙 🗖				
← → C □ http://vonets.cfg/a.asp				=
ONETS	● English ○ 简体中文	admin	Ŷ	Login

4. In "Operating Mode", change Device mode to "Router" mode, click "Apply" Button;

Operative Status	Operating Mode
Operating Mode >>	Device Mode
Scan Hotspots	Router WiFi Bridge (Bridge + WiFi Signal Repeater) Router
WiFi Repeater	
System Settings	
LAN Settings	Internet
	Interface Mode
	Default WAN/LAN port define.
	Exchange WAN/LAN port.
	Apply Cancel

5. Reboot device: go to "System Settings"-- "Reboot device", click "Reboot" button, VONETS device will automatically switch to router mode.

Operative Status	Reboot Device Advanced Setting Login Settings Firmware Upgrade
Operating Mode	Reboot Device
Scan Hotspots	Reboot Device Reboot
WiFi Repeater	
System Settings 🚿	
LAN Settings	

3.2 WAN port settings

3.2.1 WAN/LAN exchange

In routing mode, the WIFI hotspot of the VONETS device is the WAN port and the Ethernet cable is the LAN port, and the WAN/LAN can be interchanged;

The WiFi of the VONETS device is the WAN port by default, and the Ethernet cable is the LAN port by default. If the interface mode is changed to "WAN/LAN interchange", the Ethernet cable is the WAN port, and the WiFi is the LAN port (no modification required);

Operative Status	Operating Mode
Operating Mode >	Device Mode
WAN Settings	Router •
LAN Settings	Adapter
WiFi Settings	Modem
Firewall	
Forwarding Rule	
System Settings	Interface Mode
	Default WAN/LAN port define.
	Exchange WAN/LAN port.
	Apply Cancel

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 VONETS device: 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 device 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 device 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 method of VONETS device is DHCP. WAN port can automatically obtain an IP address after connecting to the source network.

Operative Status	Basic Settings	DDNS	ICMP Query		
Operating Mode	WAN Connection Type				
	Connection Type	DHCP (Aut	o config) 🗸		
WAN Settings	Remote Management	O Disable	Enable		
LAN Settings	DHCP Mode				
WiFi Settings	Hostname	VONETS.C	OM		
	MAC Clone				
Firewall	MAC Address		Get PC MAC		
Forwarding Rule	Modify the parameters, restart	the device to take eff	ect.		
System Settings			Apply	Cancel	

3.2.4 PPPoE 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 reboot VONETS device, then can access to network.

Operative Status	Basic Settings	DDNS ICMP Query
Operating Mode	WAN Connection Type	
WAN Settings >>	Connection Type Remote Management	PPPoE (ADSL) O Disable Enable
LAN Settings	PPPoE Mode	
WiFi Settings	User Name	17760386590@163.sz.com
wiri settings	Password	
Firewall		Always on 🗸
Forwarding Rule	Operation Mode	Always on mode: Redial Period 60 seconds Dial on Demand mode: Idle Time 5 minutes
System Settings	MAC Clone	
	MAC Address	Get PC MAC
Timing Function	Modify the parameters, restart the	e device to take effect.
Wizard		Apply Cancel

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.

Operative Status	Basic Settings	DDNS ICMP Query
Operating Mode	WAN Connection Type	
	Connection Type	WIFI 🗸
WAN Settings >>	Remote Management	O Disable 🔍 Enable
LAN Settings	WiFi Mode	
	SSID	
WiFi Settings	MAC Address	
	Connection Status	Disconnected
Firewall	Scan Hotspots	Scan Hotspots
	IP settings	DHCP (Auto config) 🗸
orwarding Rule	DHCP Mode	
/stem Settings	Hostname	VONETS.COM
System Settings		
Timing Function	Modify the parameters, restart	the device to take effect.
Wizard		Apply Cancel

2. Choose the source hotspots, click "Next";

Operative Status	В	asic Settings WiFi Se	ecurity WiFi C	lient V	ViFi Hotspots	
Operating Mode	Sala	ect a Wireless Network to co	anast to If not found in	laass slick Pof	rech List or out	tor the SSID of
WAN Settings	the	network manually. Then, clic	k Next.		resh List, or em	
		SSID	MAC	Channel	Signal	Band
LAN Settings		VONETS_2.4G_C768	00:17:13:35:c7:68	7	100(-35dbm)	2.4G
		VONETS_2.4G_1_0162	00:17:13:a1:01:65	7	100(-35dbm)	2.4G
WiFi Settings >		VONETS_2.4G_6418	00:17:13:34:64:18	7	100(-35dbm)	2.4G
wiri settings		VONETS_Special2.4G_0162	00:17:13:a1:01:67	7	100(-36dbm)	2.4G
		VONETS_Office2.4G_0162	00:17:13:a1:01:66	7	100(-36dbm)	2.4G
Firewall		ChinaNet-SYaT	18:52:82:23:a6:fd	13	100(-42dbm)	2.4G
		ChinaNet-I6Ij	c8:50:e9:e9:a4:28	10	100(-50dbm)	2.4G
Forwarding Rule		H3C_VONETS_2.4G	48:7a:da:cf:cb:b1	5	100(-50dbm)	2.4G
			there ar	e 40 wireless netv	vork	
System Settings	0	SSID				
Timing Function				(Refresh List	Next
Wizard						

- 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";

Operative Status	Basic Settings WiFi Security WiFi Client WiFi Hotspots	
Operating Mode	Security Settings	
	SSID VONETS_2.4G_1_0162	
WAN Settings	Source WiFi hotspot password	
LAN Settings	Application type of Src-Hotspot Normal hotspot Emergency connection	
	The configuration parameters of WiFi repeater security is synchronized with source hotspot	
WiFi Settings >	VONETS_2.4G_1_0162_2.4G_8(Disable Hotspot	
Firewall	2.4G WiFi Repeater SSID VONETS_Office2.4G_0180 Disable Hotspot	
ritewali	VONETS_Special2.4G_0180 Disable Hotspot	
Forwarding Rule	VONETS_2.4G_1_0162_5G_80 Disable Hotspot ☑ Disable WiFi Hard 5G WiFi Repeater SSID VONETS Office5G 0180 Disable Hotspot	Jware
	5G WiFi Repeater SSID VONETS_Office5G_0180 Disable Hotspot VONETS_Special5G_0180 Disable Hotspot	
System Settings		
Timing Function	Advanced Setting (For specific applications only) >>	
Thining Function		
Wizard	Apply	Back

4. Click "Reboot", VONETS device 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.)

Operative Status	Basic Settings WiFi Security WiFi Client WiFi Hotspots	
Operating Mode	SSID VONETS_2.4G_1_0162	
	Source WiFi hotspot password 12345678	
WAN Settings	Application type of Src-Hotspot Normal hotspot Emergency connection	
LAN Settings	The configuration parameters of WiFi repeater security is synchronized with source hotspot	
WiFi Settings 🚿	2.4G WiFi Repeater SSID VONETS_2.4G_1_0162_2.4G_8(Disable Hotspot VONETS_Office2.4G_0180 Disable Hotspot VONETS_Special2.4G_0180 Disable Hotspot	
Firewall	5G WiFi Repeater SSID VONETS_2.4G_1_0162_5G_80 Disable Hotspot Image: Control of the stable wiFi Har	dwar
Forwarding Rule	VONETS_Special5G_0180 Disable Hospot	
System Settings	Advanced Setting (For specific applications only) >>	
Timing Function	E	Back
Wizard	To make the new parameters effective, after parameters are configured, please click "Reboot" button.	ot

Remark 3: After VONETS device 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

1. Change the WIFI name: select "Basic Settings" in "WIFI Settings", enter the new WIFI name in the text box after the SSID, or select the WiFi transmit power according to the actual application scenario, and then click the "Apply" button;

Operative Status	Basic Settings	WiFi Security WiFi Client WiFi Hotspots	
Operating Mode	2.4G Wireless Network		
	WiFi Hardware Module	● Enable ○ Disable	
WAN Settings	General Hotspot SSID	VONETS_2.4G_1_0162_2.4G_8() Hidden Disable Hotspot	
LAN Settings		00:17:13:A1:01:83	
	Office Hotspot SSID1	VONETS_Office2.4G_0180 Hidden Disable Hotspot	
WiFi Settings 📎		00:17:13:A1:01:84	
	Special Hotspot SSID2	VONETS_Special2.4G_0180 Hidden Disable Hotspot	
Firewall		00:17:13:A1:01:85	
	Network Mode	11B/G/N 🗸	
Forwarding Rule	Select channel range	1~14 🗸	
	Channel	2442MHz (Channel 7) 🗸 🗆 Auto select the best channel	
System Settings	WiFi Tx Power	Normal Power(19dBm) Enhanced Power(25dBm)	
Timing Function	5G Wireless Network		
	WiFi Hardware Module	O Enable Disable	
Wizard	Modify the parameters, restart the device to take effect.		
		Apply Cancel	

2. Change WIFI password: select "WIFI Security" in "WIFI Settings", enter a new WIFI password in the text box after the key, you can set different passwords for different hotspot names, and then click the "Apply" button;

Operative Status	Basic Settings WiFi	Security WiFi Client WiFi Hotspots
Operating Mode	[2.4G] WiFi Security	
WAN Settings	Repeater SSID Security Mode	VONETS_2.4G_1_0162_2.4G_80 ✓ VONETS_2.4G_1_0162_2.4G_80 VONETS_Office2.4G_0180
LAN Settings	WPA Algorithms	VONETS_Special2.4G_0180
WiFi Settings 🚿	Pass Phrase SSID	12345678 8-63 characters or 64 hex numbers) Pass Phrase
Firewall	VONETS_2.4G_1_0162_2.4G_80 VONETS_Office2.4G_0180 VONETS_Special2.4G_0180	12345678 123456789 1234567890
Forwarding Rule	Modify the parameters, restart the de	
System Settings	mouny are parameters, restart are ac	Apply Cancel
Timing Function		
Wizard		

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

Operative Status	Reboot Device A	Advanced Setting Login Settings Firmware Upgrade	
Operating Mode	Reboot Device		
WAN Settings	Reboot Device	Reboot	
LAN Settings			
WiFi Settings			
Firewall			
Forwarding Rule			
System Settings 🚿			

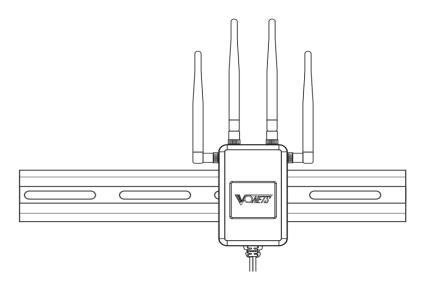
Chapter 4 Other components and installation method

4.1 Other components

1 Power Adapter	2、 Power Adapter
(POE option) (48V/1.2A)	(No POE option) (12V/3A)
3、 DC terminal block	4 2.4G/5G Antenna
(Standard Accessories)	(-H Series Standard Accessories)

4.2 Industrial chassis rail hook kit installation

1. Snap the VONETS device to the chassis rail



Appendix Frequently Asked Questions

1. How to reset to the factory default parameters?

Power on the device, after 60 seconds, long press Reset button until 5 seconds, the blue light will flash a few, then the device will automatically reset to the factory default parameters (it will take about 80 seconds to reset the device), during the recovery of the factory operation, the product can't be powered off, otherwise it may cause the product to damage.

- Do VONETS device support firmware upgrade, how to upgrade?
 VONETS devices support 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 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?

- 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.
- 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>.