VONETS Series Product Manual

Declaration

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Class A: Professional WiFi Repeater + bridge Series Product						
	Power Supply	Point to point	Transmission			
Model	Parameters	Transmission	Rate (Mbps)	Frequency		
		distance				
VAP11G-300	DC5V-15V/500mA	80m100m	300	2.4G		
VAP11N-300	DC5V-15V/500mA	50m80m	300	2.4G		
MINI300	DC5V/500mA	50m80m	300	2.4G		
VRP300	AC110V-240V	50m80m	300	2.4G		
VRP300 PLUS	AC110V-240V	50m80m	300	2.4G		
VRP5G (Dual Band)	AC110V-240V	50m80m	300+450	2.4G/5G		
VAP11G-500 (High	DC5.5V15V/2A	300m500m	300	2.4G		
power)						
VAP11G-1000(High	DC5.5V15V/2A	800m-1000m	300	2.4G		
power)						
VAP11G-2000(High	DC5.5V15V/3A	1500m2000m	300	2.4G		
power)						
Clas	Class B: WiFi Router + Repeater + Bridge Series Product					
VAR11N-300	DC5V/500mA	50m80m	300	2.4G		

Form 1

VHA300(Module)	DC5V-15V/500mA	50m80m	300	2.4G	
WIFI-ROOM	AC110V/240V	50m80m	300	2.4G	
VAR5G (POE power	DC5V/3A or POE	500m800m	300+450	2.4G/5G	
supply)					
VM300(Module)	DC5V-15V/500mA	80m100m	300	2.4G	
Class C: Professional Portable Router					
VAR11N -PLUS (Router)	DC5V/500mA	50m80m	300	2.4G	

VONETS Product Application

1. **WiFi Repeater+bridge:** It is mainly used for WiFi signal transfer connection and regional coverage, so as to achieve the family, office, public wireless network operation.



2. Router Mode: It is used as WiFi Router, connect to Internet by Modem or Broadband access line.



VONETS Class A: (WiFi Repeater + bridge) Series Product Setting Guide

Step1. Connect -- There are two methods to connect when configured.

Method 1. -- Connect WiFi bridge LAN port to PC by Ethernet cable, see the 2 drawing below:



Method 2. -- WiFi connect to bridge by PC or smart phone, see the 2 drawing below:





Step 2. Power on the device (Please refer to the supply parameters of <VONETS wireless products table to power, this series product does not contain the power adapter from original factory, users need to buy power adapter according to supply parameters)

Step 3. Connect to WiFi bridge hot spot by smart phone or PC (This step is fit for <Step 1. Method 2>)

WiFi hot spot parameters of VONETS series bridge as below:

- WiFi SSID: VONETS *****
- WiFi password: 12345678

Step 4. Log in WEB configured page, configure the parameters of source WiFi hot spot

 Open browser (IE, Google Chrome, Safari, the mobile phone browser and so on), enter IP address (192.168.254.254) or configured domain name of configured page (http://vonets.cfg);



 Enter user name and password (it is admin) on the log in page, click "Login" button to enter configured page;



3) Search the source WiFi hot spot

Scan Hotspots	Sele List	ct a Wireless Network t , or enter the SSID of	o cor the r	nect t etwork	o. If not found, manually. Then,	, please c , click <mark>N</mark> e	lick Refr xt.	esh
WiFi Repeater	۲	SSID Chanr	iel S:	ignal	Authentication	Encryption	Wifi Mode	ExtCH
	Ĭ	haohao	2	100	WPA2-PSK	AES	11b/g/n	ABOVE
System Settings		ENBKIOTGW	10	96	Disable		11b/g/n	NONE
		yes_17CDEC	7	91	WPA2-PSK	AES	11b/g/n	ABOVE
Local IP		305	1	81	WPAPSK-WPA2PSK	AES	11b/g/n	ABOVE
		Officec	6	81	WPAPSK-WPA2PSK	TKIPAES	11b/g/n	BELOW
		0x333630E5858DE8B4B9576946692D	6	76	WPAPSK-WPA2PSK	AES	11b/g/n	ABOVE
		VONETS_WXS	7	70	WPA2-PSK	AES	11b/g/n	ABOVE
		VONETS_1BFBE4	7	70	WPA2-PSK	AES	11b/g/n	ABOVE
		there are 28 wireless network					Refre	sh List
	~	SCTD 111	Lala	ahas	T I T			

4) Set up the source WiFi hot spot password, extended WiFi hot spot SSID (the default configuration: The password of extended WiFi hot spot is the same as the source WiFi hot spot password)

11/27/20	Security Mode	WPA2-PSK
Wifi Kepeater	WPA Algorithms	AES
System Settings	Password of source hotspot	12345678
II TP	Automatic connect to mem	mory hotspots
LOCAL II	🗹 The configuration parame	eters of WiFi repeater security is synchronized with source hotspot
	The key is the same a	as the 2.4G hotspot 🔿 The key is the same as the 5G hotspot
	2.4G WiFi Repeater SSID	haohao_30_2.4G
	5G WiFi Repeater SSID	haohao_30_5G
		Apply Bac

5) Configure WiFi Transmit power (This is just fit for VAP11G-500, VAP11G-1000, VAP11G-2000)

- The default is Normal WiFi power, at this point the point to point transmission distance can not reach the farthest remote;
- If you want to reach the farthest transmission distance, this product must be paired to use, the device is configured to high power mode, please the drawing below:



6) After rebooting the device, the device will automatically connect to the configured WiFi hot spot, if it is configured successfully, the green indicator will flash quickly. Note 1: When bridge/repeater product connect to external network, the IP address of the device will change. 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 with this IP.

VONETS Class B, C: (WiFi Router + Repeater + bridge) Series Product

Setting Guide

Step1. Connect -- There are two methods to connect when configured.

Method 1. -- Connect the device LAN port to PC by Ethernet cable, see the 2 drawing below:



Method 2. -- WiFi connect to router by PC or smart phone, see the 2 drawing below:



Step 2. Power on the device (Please refer to the supply parameters of <VONETS wireless products table to power, this series product does not contain the power adapter from original factory, users need to buy power adapter according to supply parameters)

Step 3. Connect to WiFi bridge hot spot by smart phone or PC (This step is fit for <Step 1. Method 2>)

- WiFi hot spot parameters of VONETS series bridge as below:
- WiFi SSID: VONETS_*****
- WiFi password: **12345678**

Step 4. Log in WEB configured page, configure the parameters of source WiFi hot spot

1) Open browser (IE, Google Chrome, Safari, the mobile phone browser and so on), enter IP address (192.168.253.254) or configured domain name of configured page

(http://vonets.cfg); - Windows Internet Explorer

e http://192.168.253.254/

2) Enter user name and password (it is admin) on the log in page, click "Login" button to enter configured page;



- 3) Set the Internet parameters, for WAN settings, there are two common connection methods: DHCP and PPPOE;
- The default setting is DHCP;
- If it is PPPOE connection, please refer the drawing below, enter the account and password provided by ISP;

Operating Mode	WAN Connection Type			
	Connection Type	PPPoE (ADSL)		
WAN Settings 🚿	Remote Management	Disable		
LAN Settings	PPPoE Mode			
	User Name			
WiFi Settings	Password			
Firewall		Always on		
THOWALL	Operation Mode	Always on mode: Redial Period 60 seconds		
Forwarding Rule		Dial on Demand mode: Idle Time 5 minutes		
	MAC Clone	MAC Clone		
System Settings	MAC Address	Get PC MAC		
		Apply Cance		

4) WiFi Settings

- In "Basic Settings", user can disable WiFi Network, revise WiFi Repeater (SSID) and change WiFi channel;
- In "WiFi Security", user can revise WiFi security mode and pass phrase;

2.4G Wire <u>less Netwo</u>	rk		
WiFi Network	Enable O Disable		
WiFi Repeater(SSID)	sales_2.4G 🔲 Hidden		
Network Mode	11b/g/n ▼		
Channel	2442MHz (Channel 7) 🔻 🗏 Auto select the best channel		
MAC Address	00:17:13:10:07:30		
56 Wireless Network			
∦iFi Network	Enable O Disable		
ViFi Repeater(SSID)	Sales_5G 🔲 Hidden		
Network Mode	11vht AC/AN/A		
	5805MHz (Channel 161) V 🔲 Auto select the best channel		
Channel	5805MHz (Channel 161) 🔻 🔲 Auto select the best channel		
Channel MAC Address odify the parameter	5805MHz (Channel 161) • Auto select the best channel 00:17:13:1B:EC:18 cs, restart the device to take effect.		
Channel MAC Address Todify the parameter Operative Status	5805MHz (Channel 161) Auto select the best channel 00:17:13:1B:EC:18 Cancel Cancel		
Channel MAC Address Todify the parameter Operative Status	5805MHz (Channel 161) Auto select the best channel 00:17:13:1B:EC:18 cs, restart the device to take effect. Apply Cancel Basic Settings WIFI Security WiFI Client		
Channel MAC Address Todify the parameter Operative Status Operating Mode WAN Settings	5805MHz (Channel 161) Auto select the best channel 00:17:13:1B:EC:18 cs, restart the device to take effect. Apply Cancel Basic Settings VINETS_193104 Security Mode WPA2-PSK		
Chammel MAC Address Todify the parameter Operative Status Operating Mode WAN Settings LAN Settings	5805MHz (Channel 161) 00:17:13:1B:EC:18 cancel apply Cancel Basic Settings WiFi Security WiFi Client VONETS_193104 Security Mode WPA WPA Algorithms TKIP TKIP TKIP-AES		
Channel MAC Address Codify the parameter Operative Status Operating Mode WAN Settings LAN Settings	5805MHz (Channel 161) 00:17:13:1B:EC:18 cs, restart the device to take effect. Apply Cancel Basic Settings ViFi Security WiFi Client VOWETS_193104 Security Mode WPA Magorithms TKIP AES TKIP AES TKIP AES TKIP AES TKIP AES TKIP		
Channel MAC Address odify the parameter Operative Status Operating Mode WAN Settings LAN Settings WiFi Settings Firewall	5805MHz (Channel 161) 00:17:13:1B:EC:18 cancel apply Cancel Basic Settings VIETS_193104 Security Mode WPA Algorithms TKIP AES TKIP Agply Cancel Cancel		

5) The function interchange of WAN and LAN (This operation is just fit for VAR11N-300, VAR5G)

- In default setting, the WAN/LAN attribute is the same as the mark on the shell;
- Choose "Operating Mode" to switch LAN and WAN function, please see the drawing below:

Operative Status	Operating Mode
Operating Mode	Device Mode
Scan Hotspots	Router
WiFi Repeater	Power Adapter
System Settings	Modem VAR11N-300
Local IP	Internet
	Interface Mode
	 Ethernet cable - WAN, Ethernet Port - LAN. Ethernet cable - LAN, Ethernet Port - WAN.

Class A 2.4G product (Repeater/bridge) Indicator Light Instruction

WiFi Status Light	Hot spot connection Status	Note
(Blue Light) Continuous Quick Flash	Not connected	Products are not configured for any hot spots
(Blue Light) Continuous Quick Flash	Connected	WiFi hot spot signal >50%
(Blue Light) Intermittent Slow Flash	Connected	WiFi hot spot signal is 10%-50%
(Blue Light) Continuous Slow Flash	Connected	Being connected to a hot spot
(Blue Light) Continuous Slow Flash	Connection failed	Password is wrong or not connected to a hot spot

Class A Dual band repeater (VRP5G, VAR5G) Indicator Light Instruction

WiFi Status Light	Hot spot connection Status	Note
(Green Light)Continuous Quick	Not connected	Products are not configured for any hot spots
Flash		
(Green Light)Continuous Quick	Connected	Connected to 5Ghz WiFi Hot spot
Flash		
(Green Light) Intermittent Quick	Connected	Connected to 2.4Ghz WiFi Hot spot
Flash		
(Green Light) Continuous Slow	Connecting	Connecting the source hot spot
Flash		
(Green Light) Continuous Slow	Connection failed	Password is wrong or not connected to a hot
Flash		spot

General operation and common faults of VONETS series products

1. How to reset to the factory default parameters?

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

- Does the VONETS series product support firmware upgrade, how to upgrade? All VONETS series products support firmware upgrade, and support online upgrade, please visit website: <u>www.vonets.com</u> 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 hot spot?
 - 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?
 - 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 hot spot, 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 <Note 1>.

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