



Model:VAP11G-300

使用配置说明书

网桥+中继 系列说明书



配置视频

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表1

传输距离参数表			
型号	无障碍点对点传输距离	传输速率 (Mbps)	频段
VAP11N-300	50m--80m	300	2.4G
VAP11G-300	80m--100m	300	2.4G
VAP11G-500	250m--300m	300	2.4G

表2

供电电源参数表			
型号	供电电压范围	输入功率	典型供电电源
VAP11N-300	DC5--15V	≥5W	5V/1A
VAP11G-300	DC5--15V	≥5W	5V/1A
VAP11G-500	DC5--15V	≥10W	5V/2A

应用方式

1. WIFI中继:
此应用中VONETS设备用于拓展已有AP或无线路由器的无线信号覆盖范围。计算机可以通过无线连接到该设备。VONETS设备添加热点后,它的DHCP服务器默认停用。



2. WIFI网桥:

此应用中VONETS设备用于拓展已有AP或无线路由器的无线信号覆盖范围。计算机可以通过有线连接到该设备。VONETS设备添加热点后,它的DHCP服务器默认停用。



3. WIFI AP:

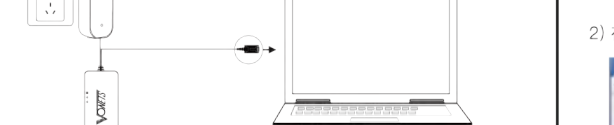
此应用可将VONETS设备实现有线局域网的无线接入功能。计算机可以通过无线连接到该设备。VONETS设备成功连接有线局域网后,它的DHCP服务器默认停用。



配置说明

1. 连接设备

VONETS设备接通电源 (5V/2A), 然后与电脑连接, 具体连接方式有以下两种:
1) 电脑有线连接VONETS设备的LAN口;



2) 电脑无线连接VONETS设备的WiFi信号, 它的热点参数如下:
WiFi SSID: VONETS_***** (与VONETS设备MAC地址对应)
WiFi密码: 12345678

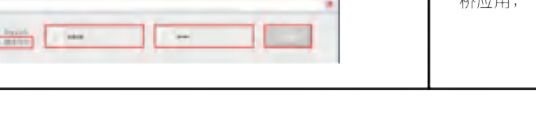


2. 中继+网桥的应用配置 (中继与网桥的应用配置方法基本相同)

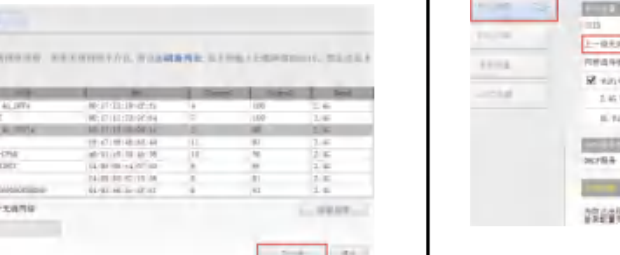
1) 电脑连接上VONETS设备后, 打开电脑浏览器, 在地址栏输入配置域名 http://vonets.cfg (或者IP: 192.168.254.254), 然后按下回车键;



2) 在登录页输入用户名和密码 (均为admin), 点击“Login”按钮进入配置页;

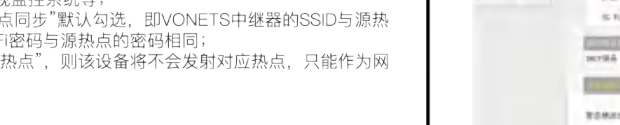


3) “WiFi搜索”, 选中上一级热点, 点击“下一步”;

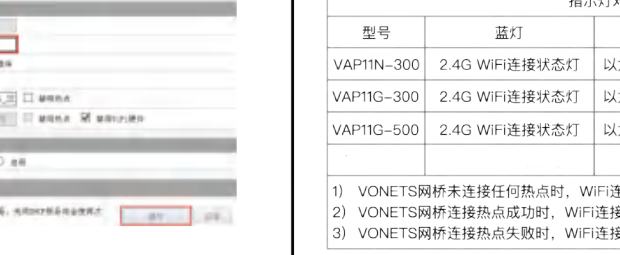


4) 输入上一级无线热点的密码, 点击“提交”;

(此处的“高级设置”可以不作更改, 若需要了解关于此选项的说明可以到网站www.vonets.com.cn下载文档“V系列网桥高级功能说明”)
•IP层透明(出厂默认), 透明传输IP层的数据, 能满足绝大部分的网桥应用;
•MAC层透传, 可透明传输MAC层(链路层)及MAC层以上的所有数据, 包括IP层数据。MAC透传可以解决一些针对MAC层加密的特殊应用, 如GoPro相机、慧尖AOI、海康威视监控系统等。
•“WiFi中继安全参数与热点同步”默认勾选, 当VONETS中继器的SSID与源热点的SSID关联, 而且WiFi密码与源热点的密码相同;
•若勾选SSID右侧的“禁用热点”, 则该设备将不会发射对应热点, 只能作为网桥应用;



5) 点击“重启”, VONETS设备重启后会自动连接已配置的WiFi热点, 若连接成功, WiFi状态灯会快速闪烁。



3. AP的应用配置

VONETS设备作为AP应用时可以不配置, 无线终端设备连接VONETS的热点后即可联网, 但为了网络的安全性最好更改它的WiFi名称和密码。

1) 在电脑浏览器登录配置页面http://vonets.cfg (或者IP: 192.168.254.254) 用户名和密码均为admin;



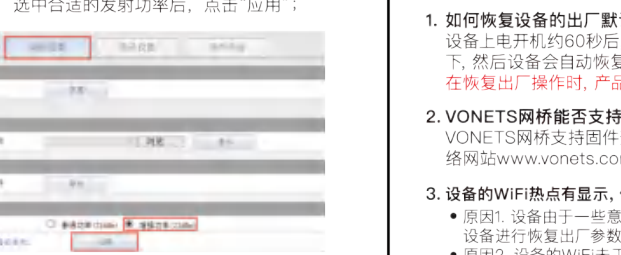
2) 更改WiFi名称: 跳转至“WiFi中继”下的“基本设置”, 在SSID下的文本框输入新的WiFi名称, 点击“应用”;



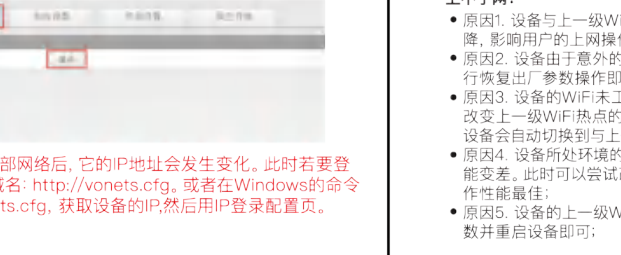
3) 更改WiFi密码: 在“WiFi中继”下切换到“WiFi安全”, 在密码后的文本框输入新的WiFi密码, 点击“应用”;



4) VAP11G-300、VAP11G-500和VAP11AC可更改WiFi发射功率: 跳转至“系统设置”下的“高级设置”, 选中合适的发射功率后, 点击“应用”;



5) 重启设备: 跳转至“系统设置”下的“设备重启”, 点击“重启”, 完成后即生效。



备注1: VONETS网桥连接外部网络后, 它的IP地址会发生变化。此时若更改配置界面, 建议使用配置域名 http://vonets.cfg, 或在Windows的命令窗口输入命令: ping vonets.cfg, 获取设备的IP,然后后IP登录配置页。

附录 常见问题解答

- 1. 如何恢复设备的出厂默认参数?**
设备上电开机约80秒后, 长按Reset按钮5秒后松开, 蓝色指示灯会闪烁几下, 然后设备会自动恢复出厂默认参数(恢复出厂程序大约需要80秒), 在恢复出厂操作时, 产品不能带电, 否则可能会造成产品的损坏。
- 2. VONETS网桥能否支持固件升级, 如何升级?**
VONETS网桥支持固件升级, 并且支持在线升级, 具体操作请查阅后天网络网站www.vonets.com.cn相关文档。
- 3. 设备的WiFi热点有显示, 但手机或PC无法连接上设备的热点, 此时只要对设备进行恢复出厂参数操作即可;**
•原因1: 设备由于一些意外的操作或掉电, 导致设备参数被篡改, 此时可以尝试对设备进行恢复出厂参数操作即可;
•原因2: 设备的WiFi未工作在最佳通道, 使其的工作性能变差, 此时可以尝试改变上一级WiFi热点和本设备的WiFi通道, 使其工作性能最佳;
•原因3: 用户的手手机或PC未配置正确的WiFi密码。
- 4. 设备已配置了上一级热点的参数, 手机或PC也连接上了设备的WiFi热点, 但仍不上网?**
•原因1: 设备与上一级WiFi热点距离太远, 使设备与上一级热点的通信性能下降, 影响用户的上网操作, 此时只要适当缩短设备与上一级热点的距离即可;
•原因2: 设备由于意外的操作或掉电, 导致设备参数被篡改, 此时只要对设备进行恢复出厂参数操作即可;
•原因3: 设备的WiFi未工作在最佳通道, 使其的工作性能变差, 此时可以尝试改变上一级WiFi热点的WiFi通道, 使其与设备的默认通道相同, 并重启设备, 设备会自动切换到与上一级WiFi热点相同的通道, 从而使设备工作性能最佳;
•原因4: 设备所处环境的WiFi热点过多, WiFi通道相互干扰, 使设备的工作性能变差, 此时可以尝试改变上一级WiFi热点和本设备的WiFi通道, 使其工作性能最佳;
•原因5: 设备的上一级WiFi热点的参数配置错误, 此时只要重新配置正确的参数并重启设备即可;

- ENGLISH -
THIS DEVICE COMPLIES WITH INDUSTRY CANADA LICENCE-EXEMPT RSS STANDARD. ITS OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION OF THE DEVICE."
- FRENCH -
LE PRÉSENT APPAREIL EST CONFORME AUX CNR D'INDUSTRIE CANADA APPLICABLES AUX DÉFINITIONS RADIO EXEMPTS DE LICENCE. L'EXPLOITATION EST AUTORISÉE AUX DEUX CONDITIONS SUIVANTES: (1) L'APPAREIL NE DOIT PAS PRODUIRE DE BROUILLAGE, ET (2) L'UTILISATEUR DE L'APPAREIL DOIT ACCEPTER TOUT BROUILLAGE RADIOÉLECTRIQUE SUBI, MÊME SI LE BROUILLAGE EST SUSCEPTIBLE D'EN COMPROMETTRE LE FONCTIONNEMENT."



Quick Setting Guide

WiFi Bridge + Repeater Series Product



Video User Guide

http://www.vonets.com
TEL:0086-755-26642519/26645879
Shenzhen HouTian Network Communication Technology Co., Ltd

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Form 1

Transmission distance parameters form			
Model	No-barrier point to point Transmission distance	Transmission rate (Mbps)	Band
VAP11N-300	50m--80m	300	2.4G
VAP11G-300	80m--100m	300	2.4G
VAP11G-500	250m--300m	300	2.4G

Form 2

Power supply parameter list			
Model	Power Supply Voltage Range	Input Power	Typical Power Supply
VAP11N-300	DC5--15V	≥5W	5V/1A
VAP11G-300	DC5--15V	≥5W	5V/1A
VAP11G-500	DC5--15V	≥10W	5V/2A

Application Method

1. WIFI Repeater:
In this application, VONETS devices are used to extend the wireless signal coverage of existing AP or wireless router. The computer can connect to the device wirelessly. After the VONETS device adds a source hotspot, its DHCP server is disable by default.



2. WIFI Bridge:

In this application, VONETS devices are used to extend the wireless signal coverage of existing AP or wireless router. The computer can connect to the device wired. After the VONETS device adds a source hotspot, its DHCP server is disable by default.



3. WIFI AP:

In this application, VONETS device implements the wireless access function of the wired LAN. The computer can connect to the device wirelessly. After VONETS device successfully connects to the wired LAN, its DHCP server is disable by default.



Setting Guide

1. Connect Device

VONETS device is powered on (5V/2A) and then connected to the computer. There are two connection ways to do this:
1) The computer is wired connected to the LAN port of VONETS device;

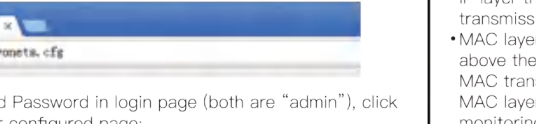


2) The computer is connected to WiFi signal of VONETS device, its hotspot parameters as below: WiFi SSID: VONETS_***** (Corresponds to the MAC address of the VONETS device) WiFi password: 12345678



2. The application configuration of Repeater + bridge (The application configuration method of repeater & bridge is basically the same).

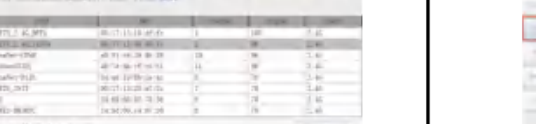
1) After the computer is connected to VONETS device, open Browser, input configured page: http://vonets.cfg (or IP: 192.168.254.254), then press Enter;



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

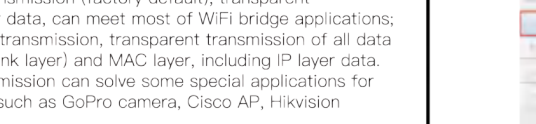


3) "Scan Hotspots", choose the source hotspots, click "Next";

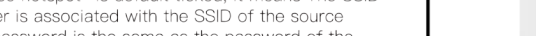


2. The application configuration of Repeater + bridge (The application configuration method of repeater & bridge is basically the same).

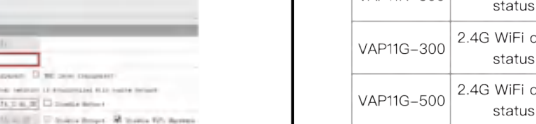
1) After the computer is connected to VONETS device, open Browser, input configured page: http://vonets.cfg (or IP: 192.168.254.254), then press Enter;



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



source 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.



5) Click "Reboot", VONETS device will connect to the configured WiFi hotspot automatically, if connection is successfully, the WiFi LED light will quick flash;



3. The application configuration of AP

VONETS device can be configured as an AP application. The wireless terminal device can connect to VONETS 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 is "admin";

Model	LED Light Form		
	Blue Light	Green Light	Yellow Light
VAP11N-300	2.4G WiFi connection status light	Ethernet cable connection status light	No
VAP11G-300	2.4G WiFi connection status light	Ethernet cable connection status light	No
VAP11G-500	2.4G WiFi connection status light	Ethernet cable connection status light	No

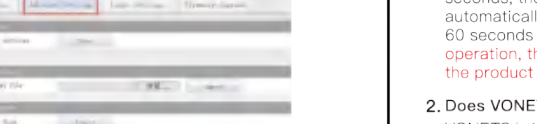
- VONETS bridge is not connected to any hotspot, WiFi connection status light will quick flash;
- VONETS bridge is connected to hotspot successfully, WiFi connection status light will quick flash;
- VONETS bridge is connected to hotspot failed, WiFi connection status light will slow flash.

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 is "admin";

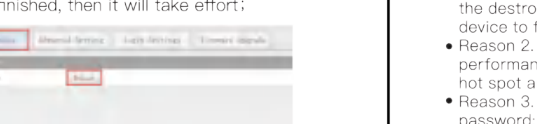
2) Revise WiFi name: Jump to "WiFi Repeater"----"Basic Settings", enter new WiFi name in "WiFi Repeater (SSID)", click "Apply";

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

4) For model VAP11G-300, VAP11G-500 and VAP11AC, "WiFi Tx Power" can be changed, jump to "System Settings"----"Advance Settings", choose suitable transmit power, then click "Apply";



5) Reboot device, jump to "System Settings"----"Reboot Device", click "Reboot", when it is finished, then it will take effect;



Remark 1: When VONETS Bridge 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.

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 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 the product to Damage.
- 2. Does VONETS bridge support firmware upgrade, and how to upgrade?**
VONETS bridge 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 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 and this device WiFi channel to make it the same as the factory default channel of the device, then 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(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 1>.

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.