

VDB2602 规格书/Datasheet

文档信息/Document Information

标题/Title	VDB2602 规格书/datasheet	
文档类型/Document type	规格书/datasheet	
文档编号/Document number	WN-21120061	
版本日期/Revision and date	V1.02	7-Jan -2022
秘密等级/Disclosure restriction	公开/open	

历史版本 Reversion History

版本号/Version	描述/Description	制作人/Maker	日期/Date
V1.01	初始发布/Initial release	Sherman	2021.12.17
V1.02	更正图片 3-1、3-2 / Correction of figure 3-1 and 3-2	Wendy	2022.1.7

设备清单/Bill of Materiel

名称/Name	型号/Model	数量/Number	备注/Remark
蓝牙网关//BLE Gateway	VDB2602	1	VDB2602
5V 适配器/5V power adapter	BSF-137F	1	INPUT:AC100-240V OUTPUT: 5.0V

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1 产品介绍/Product Introduction

VDB2602 是一个集成了 WiFi 和大功率蓝牙 BLE 两种无线通信方式的网关，最多支持两路蓝牙扫描器（BLE4.2+BLE5.0），最多可以同时连接 8+20 个蓝牙设备，可灵活应用于各种场景。例如，远程控制 BLE 设备，采集蓝牙设备发送的数据并转发到后台服务器等。

VDB2602 is a wireless gateway integrating WIFI and BLE of high-power Bluetooth. It support 2 way of BLE scanner (BLE4.2+BLE5.0). And it can connect max.8+20 BLE peripherals, which can be flexibly used in various scenarios. For example, remote control of BLE devices, gathering data sent by BLE devices and upload to background servers, etc.

VDB2602 重点升级了 POE 的兼容性和可靠性，网口抗雷击浪涌防护能力可达共模 4kV 差模 2kV (10/700uS- 5/320uS 波形)。此外，VDB2602 的 DC 电源设计符合本安设计规范，并且支持宽电压输入范围（5~16V）。

VDB2602 focuses on upgrading the compatibility and reliability of POE. The lightning surge protection capacity of network interface can reach common mode 4KV and differential mode 2KV (10 / 700us - 5 / 320us waveform). In addition, the DC power supply design of VDB2602 meets the intrinsically safe design specification. And it also supports a wide voltage input range (5 ~ 16V).

VDB2602 还具有功耗小、可拆卸、造型美观等优点。网关内部做了 4G/Cat.1 模块兼容，方便无法布网线特殊场景。此外网关内部还预留了 TF 卡，方便支持断网存储功能（需定制）。

VDB2602 also has the advantages of low power consumption, disassembly, beautiful shape and so on. 4G/Cat.1 module is built inside the gateway in compatible, which is convenient for special scenarios where network cable cannot be laid. In addition, a TF card is reserved inside the gateway to support the storage function when the network is down (need customization).



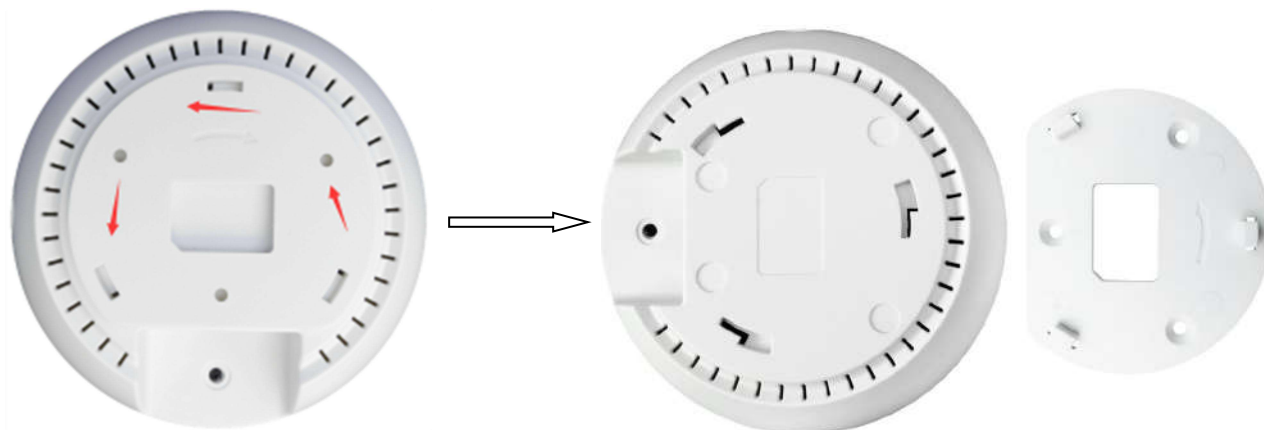
图 1-1/Figure 1-1: VDB2602

1.1 安装方法/installation method

VDB2602 采用旋转卡扣式安装，方便安装和拆卸，其安装方法如下。

VDB2602 adopts rotary buckle installation, which is convenient for installation and disassembly, its installation method is as follows.

- a. 逆时针旋转，取下 D 型卡扣/ Rotate counterclockwise and remove the D-shape buckle.



- b. 把 D 型卡扣平面一侧靠近安装处，安装到合适位置，使用螺丝紧固卡扣。/ Place the flat side of the D-shape buckle close to the mounting place. Install it in place and tighten the buckle with screws.



- c. 把网关网口和 DC 头出线一侧对齐 D 型卡扣。 / Align the D-shape buckle to the RJ45 port and DC outlet side.



1.2 系统框图/System Diagram

VDB2602 内置 WiFi 和蓝牙两种无线通信方式。WiFi 与蓝牙之间通过串口通信。VDB2602 支持 POE 供电和 DC 5~16V 电源供电两种供电方式。

VDB2602 built-in WiFi and Bluetooth two wireless communication modes. WiFi and Bluetooth communicate through serial port. VDB2602 supports POE power supply and DC 5~16V power supply.

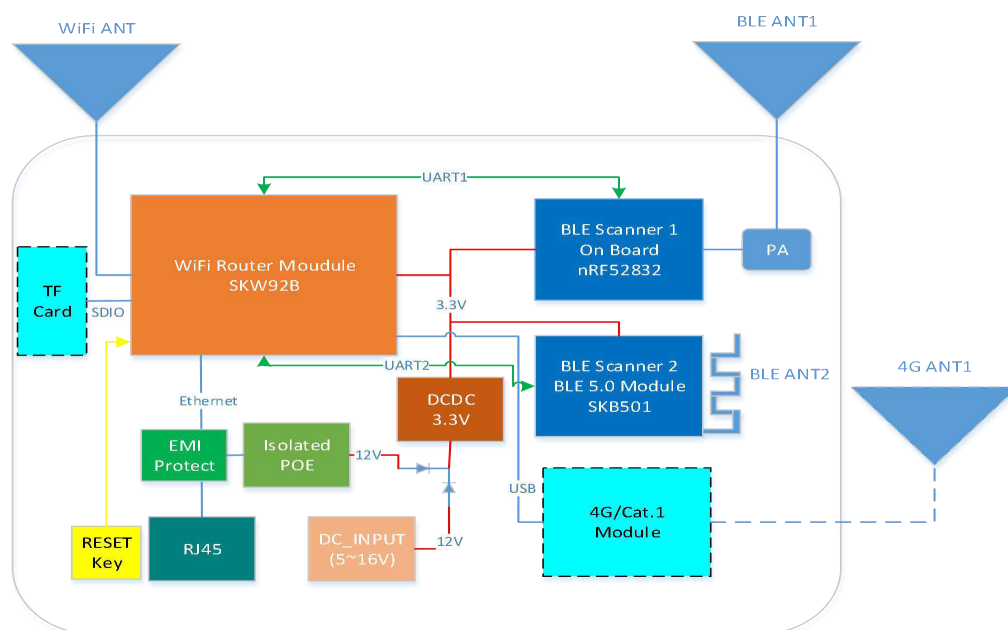
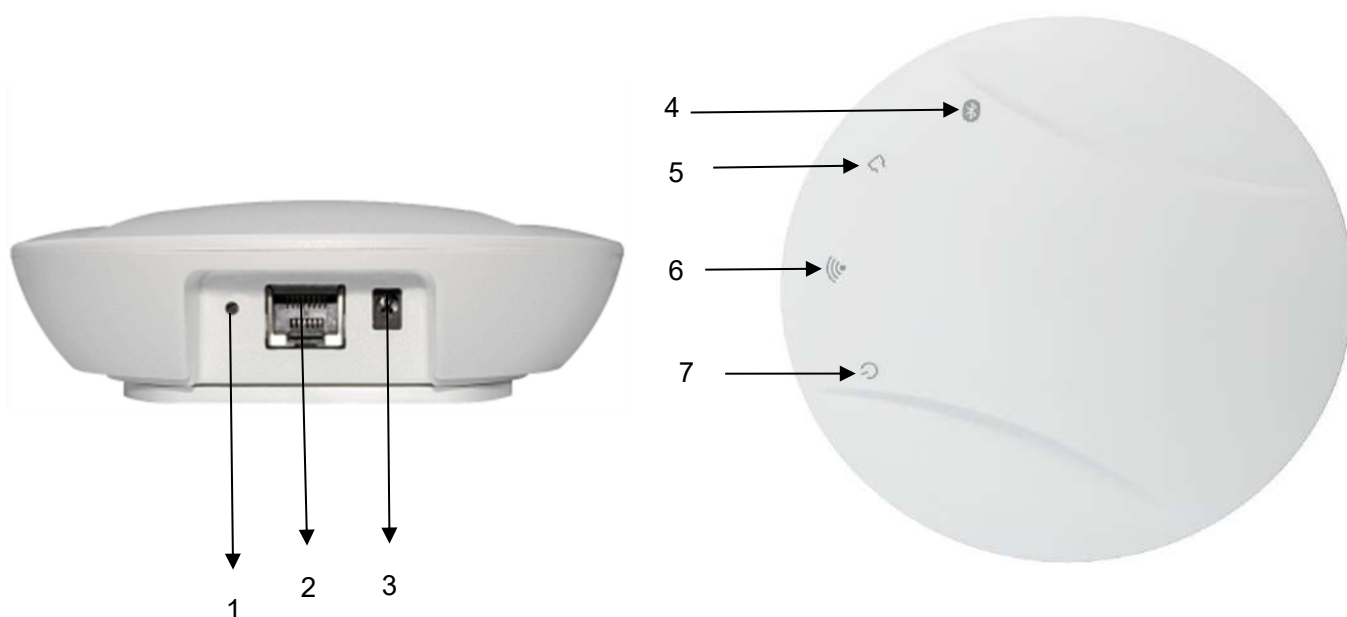


图 1-2/Figure 1-2: VDB2602 框图/Diagram

1.3 特性/Features

- ◆ 支持 POE 供电和 DC-DC 5-16V 供电/ Support POE power supply and DC-DC 4.5-6.3.0V power supply
- ◆ 支持 IEEE 802.11n, IEEE 802.11g, IEEE 802.11b 协议/ Supports IEEE 802.11n, IEEE 802.11g, IEEE 802.11b protocols
- ◆ 支持 Bluetooth ® 4.2/5.0 / Bluetooth ® 4.2/5.0 is supported
- ◆ 蓝牙发射功率最大可达+20dBm/ Bluetooth can transmit power up to +20dBm
- ◆ 结构小, 轻便/ Small structure, light weight
- ◆ 1 个 WAN/LAN 可变网口/ 1 WAN/LAN variable port
- ◆ 符合 RoHS, FCC, CE 标准/ Comply with RoHS, FCC, CE standards

1.4 接口介绍/ Interface introduction



- 1: 复位按键 Reset/Reset button
- 2: WAN/LAN 网口/ WAN/LAN front-end ports
- 3: DC 接口/DC interface
- 4: 蓝牙灯/Bluetooth light
- 5: 网口灯/Meker burner
- 6: WiFi 灯/WiFi light
- 7: 电源灯/Power light

1.4.1 网口/Net port

VDB2602 网口支持五类线和超五类线，可传输数据同时也能支持 POE 供电（由 POE 交换机供电称为 POE 供电，电压范围 44~57V）。网口为 WAN/LAN 可变网口。

The VDB2602 network port supports five types of lines and super five types of lines, which can transmit data and also support POE power supply (power supply by POE switch is called POE power supply, voltage range 44~57V). The network port is a WAN/LAN variable port.

工作模式/Working mode	网口/net gape
AP Client	LAN
Getway	WAN

1.4.2 DC 电源接口/DC Jack

VDB2602 的电源接口支持 DC 输入，输入电压范围为 5-16V，建议输入电流 2A，接口采用 DC 电源插座，电源座孔径 3.5mm,针径为 1.35mm，针头为正极。

The power interface of VDB2602 supports DC input, the input voltage range is 5-16V, the suggested current input is 2A, the interface adopts DC power socket, of which the power base diameter is 3.5mm, the needle diameter is 1.35mm, the needle is positive pole.

说明：出厂配备的 5V 电源适配器输入电压为 AC 100-240V,50/60Hz 输出电压为 5V 2A。电源接头为外负内正。

Description: The input voltage of 5V power adapter is AC 100-240V, and the output voltage of 50/60Hz is 5V 2A. The power connection is positive inside and negative outside.

1.4.3 复位按键/Reset button

长按 VDB2602 的复位按钮 5 秒钟以上，VDB2602 内部的 WiFi 会恢复出厂设置。

Long press the reset button of VDB2602 for more than 5 seconds, the WiFi inside the VDB2602 will be restored to the factory Settings.

1.4.4 指示灯/Indicator light

电源指示灯/Power indicator: WiFi 启动后 LED 灯常亮 / Always on LED after WiFi module is on

网口指示灯/Network port indicator light: 上电网口插网线后 LED 灯常亮，有数据传输时会快闪，拔下网线会熄灭；/ The LED light is always on after the network cable is inserted into the grid port. When there is data transmission, the LED light will flash, and the cable will be extinguished when it is unplugged.

WiFi 指示灯/WiFi light: 上电 1-2 秒后, LED 灯常亮, WiFi 连接或传输数据时会快闪。/ After 1-2 seconds of power on, the LED light is always on and flash when WiFi is connected or data is transmitted.

蓝牙指示灯/Bluetooth indicator light: 上电后 LED 灯闪烁/ The LED light flashes after charging

1.5 应用场景/Application Block Diagram

应用场景 1: 传感器信息采集、指令下发/Scene1: Sensor data collection or command deliver

(1) VDB2602 里蓝牙模块收集附近蓝牙传感器的信息, 如温湿度、光照度、CO2 浓度等, 一秒一次。

VDB2602 Bluetooth module collects information about BLE sensor, such as Humidity and Temp., brightness, CO2 density etc., once per second.

(2) 云平台控制信息, 通过网关发给蓝牙控制器模块或蓝牙开关, 用来调节温湿度等, 一秒一次。

The cloud controlcenter send the command information to BLE control module or BLE switch through VDB2602 , so as to adjust the Temp. and Humidity, once per second



图 1-3 蓝牙网关采集蓝牙传感器信息

Figure 1-3 BLE Gateway collect BLE sensor data

应用场景 2: 室内定位/Scene2: Indoor positioning

(1) VDB2602 里的蓝牙模块收集附近 Beacon 的信息, 包括 RSSI, MAC 等, 一秒一次。

VDB2602 Bluetooth module collects information about Beacon nearby, including RSSI, MAC, etc., once per second.

(2) 蓝牙模块将收到 Beacon 信息, 通过 UART 串口发给 VDB2602 里面的 WIFI 模块, 一秒一次。

Bluetooth module send the Beacon information to WiFi module through UART serial port, once per second.

(3) WIFI 模块通过串口接收到蓝牙模块传过来的信息，并通过 WiFi、网线或者 4G 模块联网，传输到指定的 UDP 服务器，并能接受服务器返回的信息。

WiFi module transfers the Beacon information (received from BLE module by UART) to the specified UDP server through WiFi, Ethernet or 4G module, and accepts the information returned by the server.

(4) UDP 服务器收到来自某个 IP 的探针数据后，通过解析数据和计算，得到 Beacon 的位置信息，可以显示在前端页面，并能下发命令到 WIFI 模块，WIFI 模块透传到蓝牙模块，定制性的工能开发（比如：结合灯具使灯亮起来、触发门铃等）。

Beacon locations can be displayed on the front page after the UDP server after analyzing and calculating the beacon information. UDP server can also delivered orders to the WiFi module, then sent it to the bluetooth module to develop different functions (such as lighting lamps, ringing door bell etc.).



图 1-4 蓝牙网关采集蓝牙信标信号强度

Figure 1-4 BLE Gateway collect BLE Beacon RSSI

说明：VDB2602 可通过网线或者 LTE 实现联网，也可以通过 WiFi 连接无线路由实现联网。

Remark: VDB2602 can be connected to the Internet via the POE switch or the wireless router or LTE modem.

2 硬件参数/Hardware parameters

尺寸/Dimension	直径 124mm；高 40mm/ Diameter: 124mm; Height: 40mm
供电方式/Power Supply	DC 4.5-12.0V、POE 供电/ Power Supply
平均电流/currents	200mA@5V
工作温度/Operating Temperature	-20℃~70℃
物理接口/Physical interface	网口一个、DC 电源接口一个/ One network port, one DC power interface
WiFi	
WiFi 协议/protocol	IEEE 802.11n, IEEE 802.11g, IEEE 802.11b
传输速率/transmission rate	IEEE 802.11 b Standard Mode: 1,2,5.5,11Mbps
	IEEE 802.11g Standard Mode: 6,9,12,18,24,36,48,54Mbps
	IEEE 802.11n : 72Mbps @ HT20 150Mbps @ HT40
接收灵敏度/Sensitivity	HT40 MCS7 : -67dBm@10% PER(MCS7)
	HT20 MCS7 : -73dBm@10% PER(MCS7)
	54M: -76dBm@10% PER
	11M: -91dBm@ 8% PER
发射功率/Transmit Power	IEEE 802.11n: 15dBm @HT40 MCS7 15dBm@HT20 MCS7
	IEEE 802.11g: 16dBm
	IEEE 802.11b: 18dBm
无线安全/Wireless Security	WPA/WPA2, WEP, TKIP, and AES
工作模式/Working mode	Bridge、Gateway、AP Client
蓝牙/Bluetooth	
蓝牙协议/Bluetooth Protocol	Bluetooth ® 4.2/5.0
传输速率/Bluetooth Protocol	1Mbps/2Mbps
无线安全/Wireless Security	AES HW Encryption
覆盖范围/coverage area	80m
发射功率/Transmit Power	BLE4.2:0~+20dBm, BLE5.0:0~8dBm

3 配置参数/ Configuration

3.1 网络拓扑/network topology

3.1.1 通过上级路由网段访问/Access through the superior routing network segment

VDB2602 在 gateway 模式下，唯一的网口为 WAN，， PC 与 VDB2602 连接相同的上级路由，访问 VDB2602。

In the Gateway mode of VDB2602, the only network port is WAN,, PC and VDB2602 connect the same superior route, access VDB2602.

VDB2602 工作在 apcli 模式下，PC 通过与 VDB2602 连接相同的上级路由，访问 VDB2602。

VDB2602 works in APCLI mode, where the PC accesses VDB2602 through the same superior route as VDB2602.

下图是网络连接的拓扑图，VDB2602 的 wan 口连接路由器的 LAN，个人 PC 也连接到路由器的 LAN 口或者无线热点，此时在 PC 上使用浏览器可以访问 VDB2602 的管理界面；

The following figure is the topology of the network connection. The WAN port of VDB2602 is connected to the ROUTER's LAN port, and the PERSONAL PC is also connected to the router's LAN port or wireless hotspot. At this point, the management interface of VDB2602 can be accessed through the browser on the PC.

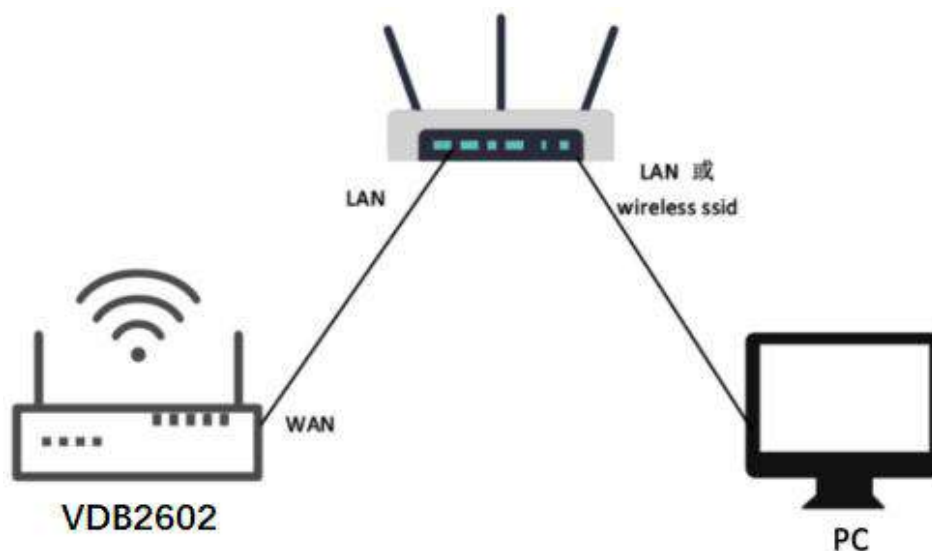


图 3-1 通过上级路由网段访问/Access through the superior routing network segment

下面假设此时路由器分配给 VDB2602 的 IP 地址为 192.168.0.106，PC 分配的 IP 为 192.168.1.118，此时在 PC 上使用浏览器访问 192.168.0.106，可以进入 VDB2602 的 web 认证界面。如下图所示

It is assumed that the IP address assigned to VDB2602 by the router is 192.168.0.106, and the IP assigned to THE PC is 192.168.1.118. At this time, the browser can access 192.168.0.106 on the PC, and the Web authentication interface of VDB2602 can be entered. As shown in the figure below



VDB2602 的默认管理账号密码分别为：admin/ admin。

The default managing account passwords of VDB2602: admin/ admin.

3.1.2 通过局域网连接/Connect via LAN

VDB2602 在 gateway 模式下，PC 通过 VDB2602 的 WIFI 热点访问 WIFI 模块。

VDB2602 in Gateway mode, the PC accesses the WIFI module through the WIFI hotspot of VDB2602.

VDB2602 在 AP-CLI 模式下，PC 可通过 VDB2602 的 WIFI 热点和唯一的网口访问 WIFI 模块。

VDB2602 In AP-CLI mode, THE PC can access the WIFI module through the WIFI hotspot of VDB2602 and the unique network port.

通过以上方式连接 VDB2602 后，VDB2602 会分配 IP 地址给 PC。用户可在 PC 上，通过访问网关 IP，登录到 VDB2602 的管理界面。默认的 IP 地址网段为 10.10.10.0/24，假设用户没有修改 VDB2602 的 IP 网段，那么，可在 PC 上通过浏览器 10.10.10.254，来到 VDB2602 的管理界面。

After connecting to VDB2602 in the above way, VDB2602 will assign the IP address to the PC. Users can log in to the administration interface of VDB2602 on a PC by accessing the gateway IP. The default IP address network segment is 10.10.10.0/24. Assuming that the user has not modified the IP network

segment of VDB2602, then the user can go to the management interface of VDB2602 through the browser on the PC at 10.10.10.254.

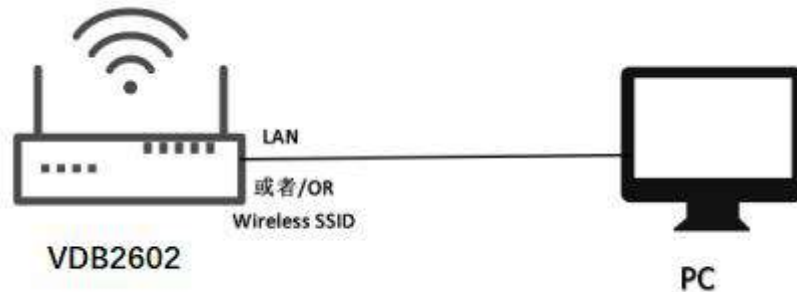
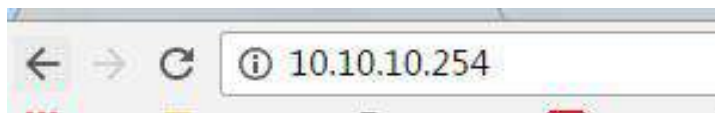


图 3-2 通过 VDB2602 局域网访问/Access via VDB2602 LAN

下图是 PC 上的访问截图：/The following is a screenshot of the access on PC:



3.2 广域网配置/Wan configuration

3.2.1 wan 口上网/Wan port access to the Internet

(1) 系统工作默认为 gateway 模式：/ The system works in gateway mode by default;



说明：点击 **Save**，可以保存配置，但不会立即生效，可以在系统配置完后，再一次性确定；点击“确定”，会立即生效，网络会重启，需要等待网络恢复；

Note: Click Save, the configuration can be saved, but it will not take effect immediately. It can be determined once the system is configured. When click "确定", it will take effect immediately, the network will restart, need to wait for the network recovery;

(2) 广域网为动态地址分配; / Wan for dynamic address allocation;



(3) 查看状态/Check the status



3.2.2 无线上网/wireless internet

(1) 系统模式配置为 apclient 模式，按下图操作，点击"Save"后，需要刷新。

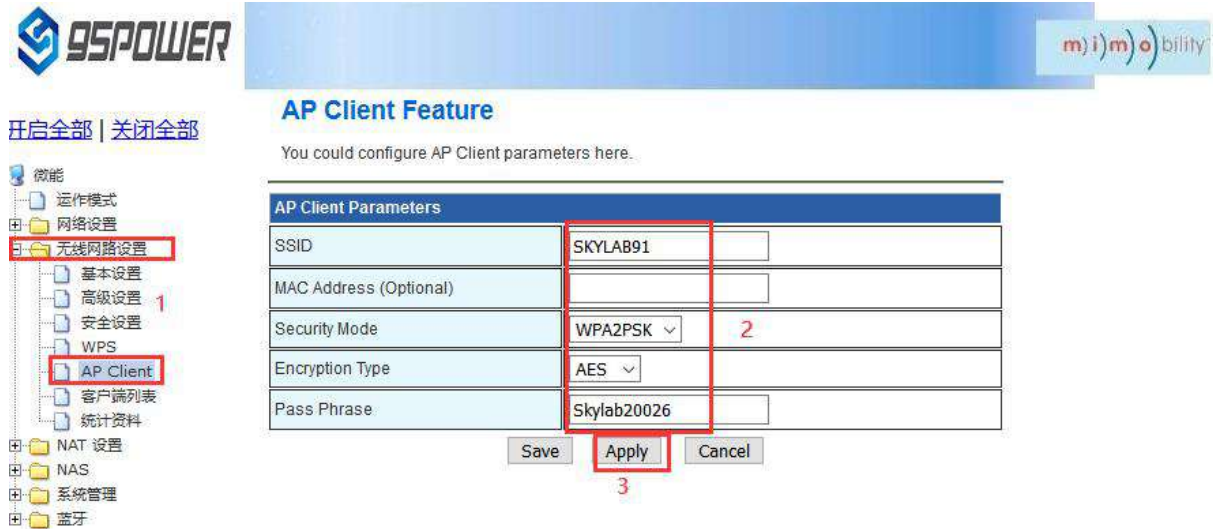
The system mode is configured as APCLI mode. Follow the operation as shown in the figure below and click "Save" to refresh.



(2) 广域网配置为动态地址分配; /The WAN is configured for dynamic address assignment;



(3) 配置上级 AP 信息： / Configure superior AP information;



AP Client Feature

You could configure AP Client parameters here.

AP Client Parameters	
SSID	SKYLAB91
MAC Address (Optional)	
Security Mode	WPA2PSK 2
Encryption Type	AES
Pass Phrase	Skylab20026

Save Apply 3 Cancel

3.2.3 移动 4G 上网/Mobile 4G Internet

(1) 保证移动上网卡和 4G 天线接好，系统配置为 Gateway 模式；

Ensure that the mobile network card and 4G antenna are connected well, and the system is configured as Gateway mode;



运作模式设置

您可以在此处设置适合您网络环境的运作模式

☐ Bridge: 所有以太网网络端、以及无线网络界面，皆被串连到单一的桥接器界面。

☒ Gateway: 第一个以太网网络端视为广域网网络端。其他的以太网网络端、以及无线网络界面，则串连到单一的桥接器界面，并视为局域网端。

☐ AP Client: 无线网络界面的客户端视为广域网网络端。无线网络界面的基地台端、以及所有以太网网络端，则串连到单一的桥接器界面，并视为广域网网络端。

启用 NAT 启用

TCP Timeout: 180

UDP Timeout: 180

Save 确定 取消

(2) 广域网配置 3G 上网方式; /Wan configuration 3G network mode;




开启全部 | 关闭全部

微能

- 运作模式
- 网络设置
 - 广域网络** 1
 - 局域网
 - DHCP 客户端列表
 - VPN Passthrough
 - 高级路由配置
 - IPv6
- 无线网络设置
- NAT 设置
- NAS
- 系统管理
- 蓝牙

广域网络设置

您可以依您的环境选择适当的联机模式，并使对不同的联机模式设置参数。

广域网络联机模式: 3G 2

4G 模式	
APN	
PIN	
Dial Number	
Username	
Password	
USB 4G 调制解调器	AutoDetect

MAC 复制	
Enabled	停用

3 Save 确定 取消

(3) 查看联网状态; / Check the network status;




开启全部 | 关闭全部

微能

- 运作模式
- 网络设置
- 无线网络设置
- NAT 设置
- NAS
- 系统管理**
 - 管理
 - 上传固件
 - 设置管理
 - 状态**
 - 统计资料
- 蓝牙

无线存取节点状态

让我们可以看到Ralink SoC平台的状态。

系统信息	
SDK版本	W0271.1.0
系统正常运行时间	8 hours, 54 mins, 51 secs
系统平台	RT2880 embedded switch
运作模式	Gateway Mode

Internet配置	
联机模式	3G
广域网络IP地址	
子网络遮罩	
默认网关	
主要域名服务器	
次要域名服务器	
MAC 位址	(null)

局域网	
本地IP地址	10.10.10.254
本地网络遮罩	255.255.255.0
MAC 位址	30:EB:1F:07:1B:A2

以太网网络端口状态

3.3 局域网配置/LAN configuration

3.3.1 更改局域网 IP 地址/Change the LAN IP address

VDB2602 默认的局域网网段为 10.10.10.254/24，客户可以根据需求修改局域网 IP 地址，下面介绍其操作步骤：

The default LAN segment of VDB2602 is 10.10.10.254/24. Customers can modify the LAN IP address according to their needs. The following steps are described:

(1) 按照下图步骤操作；/Follow the steps below;



局域网设置

您可以启用/停止以及设置所有的网络功能。

网络名称	Mediatek
IP 地址	172.16.10.254
子网掩码	255.255.255.0
局域网 2	<input type="checkbox"/> 启用 <input checked="" type="checkbox"/> 停用
局域网 2 IP 地址	<input type="text"/>
局域网 2 子网掩码	(null)
MAC 地址	(null)
DHCP 类型	服务器
起始 IP 地址	172.16.10.100
结束 IP 地址	172.16.10.200
子网掩码	255.255.255.0
惯用 DNS 服务器	168.95.1.1
其他 DNS 服务器	8.8.8.8
预设网关	172.16.10.254



DHCP 类型

DHCP 类型	服务器
起始 IP 地址	172.16.10.100
结束 IP 地址	172.16.10.200
子网掩码	255.255.255.0
惯用 DNS 服务器	168.95.1.1
其他 DNS 服务器	8.8.8.8
预设网关	172.16.10.254
释放时间	86400
静态指定	MAC: <input type="text"/> IP: <input type="text"/>
静态指定	MAC: <input type="text"/> IP: <input type="text"/>
静态指定	MAC: <input type="text"/> IP: <input type="text"/>
802.1d Spanning Tree	停用
LLTD	停用
IGMP Proxy	停用
UPNP	停用
Router Advertisement	停用

Save 确定 取消

(2) 修改完 IP 地址后，网络会重启，如果使用 WIFI 热点连接，可能出现断网情况，再次连接到热点使用新设置的 IP 地址访问模块。

After the IP address is modified, the network will restart. If the WIFI hotspot is used to connect, the network may be disconnected. Connect to the hotspot again and use the newly set IP address to access the module.



局域网设置

您可以启用/停止以及设置所有的网络功能。



局域网设置	
网络名称	Mediatek
IP 地址	172.16.10.254
子网络遮罩	255.255.255.0
局域网 2	<input type="radio"/> 启用 <input checked="" type="radio"/> 停用
局域网 2 IP 地址	
局域网 2 子网络遮罩	
MAC 地址	(null)
DHCP 类型	服务器
起始 IP 地址	172.16.10.100
结束 IP 地址	172.16.10.200
子网络遮罩	255.255.255.0
惯用 DNS 服务器	168.95.1.1
其他 DNS 服务器	8.8.8.8
预设信关	172.16.10.254

3.3.2 增设局域网网段/ Add LAN segment

VDB2602 可以增设局域网网段 lan2，默认没有开启 lan2。

Lan2 can be added to LAN segment in VDB2602. Lan2 is not enabled by default.

(1) 按下图步骤设置 lan2。/Follow the steps below to set up LAN2

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- 微能
 - 运作模式
 - 网络设置
 - 广域网
 - 局域网 1
 - DHCP 客户端列表
 - VPN Passthrough
 - 高级路由配置
 - IPv6
 - 无线网络设置
 - NAT 设置
 - NAS
 - 系统管理
 - 蓝牙

局域网设置

您可以启用/停止以及设置所有的网络功能。

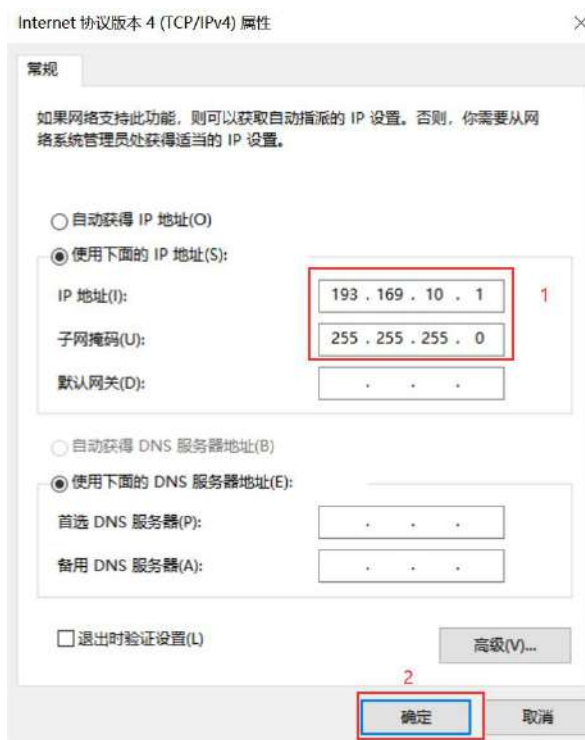
局域网设置	
网络名称	Mediatek
IP 地址	172.16.10.254
子网络遮罩	255.255.255.0
局域网 2	<input checked="" type="radio"/> 启用 <input type="radio"/> 停用 2
局域网 2 IP 地址	193.169.10.254
局域网 2 子网络遮罩	255.255.255.0
MAC 地址	(null)
DHCP 类型	服务器
起始 IP 地址	172.16.10.100
结束 IP 地址	172.16.10.200
子网络遮罩	255.255.255.0
惯用 DNS 服务器	168.95.1.1
其他 DNS 服务器	8.8.8.8
预设信关	172.16.10.254
释放时间	86400

DHCP 类型	服务器
起始 IP 地址	172.16.10.100
结束 IP 地址	172.16.10.200
子网络遮罩	255.255.255.0
惯用 DNS 服务器	168.95.1.1
其他 DNS 服务器	8.8.8.8
预设信关	172.16.10.254
释放时间	86400
静态指定	MAC: <input type="text"/> IP: <input type="text"/>
静态指定	MAC: <input type="text"/> IP: <input type="text"/>
静态指定	MAC: <input type="text"/> IP: <input type="text"/>
802.1d Spanning Tree	停用
LLTD	停用
IGMP Proxy	停用
UPNP	停用
Router Advertisement	停用 3

Save
确定
取消

(2) lan2 设置完成后, 用户可以使用设置静态 IP 为该网段, 与设置通信, 通过 lan2 的 IP 访问网关。

After lan2 is set up, the user can set the static IP for the network segment and communicate with the set through lan2's IP access gateway.



3.3.3 配置 DHCP 参数/configuration DHCP

VDB2602 支持用户修改 DHCP 的各个参数，包括起始 IP、结束 IP、IP 地址租赁时间等参数，也支持用户关闭 DHCP 功能，使用静态 IP 连接。

VDB2602 supports users to modify various DHCP parameters, including starting IP, ending IP, IP address lease time and other parameters, and also supports users to turn off DHCP function and use static IP connection.

(1) 下面是关闭 DHCP 服务的步骤：/The following steps are to close the DHCP service



局域网设置

您可以启用/停止以及设置所有的网络功能。

局域网设置	
网络名称	Mediatek
IP 地址	172.16.10.254
子网络遮罩	255.255.255.0
局域网 2	<input checked="" type="radio"/> 启用 <input type="radio"/> 停用
局域网 2 IP 地址	193.169.10.254
局域网 2 子网络遮罩	255.255.255.0
MAC 地址	(null)
DHCP 类型	停用 2
802.1d Spanning Tree	停用
LLTD	停用
IGMP Proxy	停用
UPNP	停用
Router Advertisement	停用 3

Save 确定 取消

(2) 下面是设置 DHCP 服务器参数的步骤: /Here are the steps to set the DHCP server parameters:



3.3.4 绑定 IP 地址/Bind IP address

在调试过程中, 在 PC 上模拟服务器端进行测试时, 可绑定 PC 的 IP 地址, 使服务器在测试中 IP 地址固定。

In the debugging process, when the server side is simulated on PC for testing, the IP address of THE PC can be bound so that the IP address of the server can be fixed during the test.

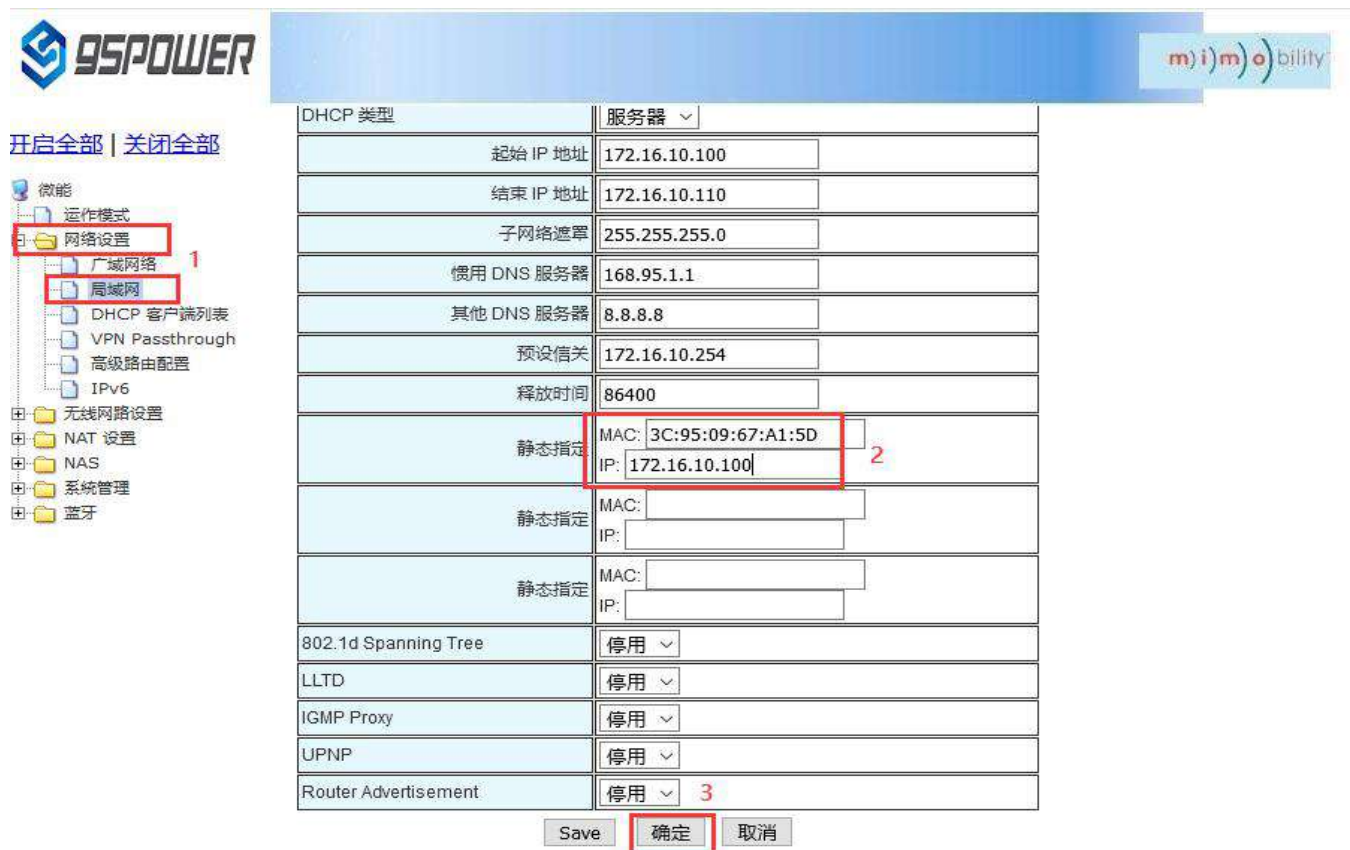
(1) 可以先查看 VDB2602 的 DHCP 列表, 复制对应 PC 的 MAC。下图是查看 DHCP 列表的步骤:

You can first check the DHCP list of VDB2602 and copy the MAC corresponding to PC. The following is the steps to view the DHCP list:



(2) 通过下图方式绑定 PC 的 IP 地址, 绑定后对应 PC 连接到 VDB2602, 获取的 IP 就是绑定的 IP 地址。

Bind THE IP address of PC through the following method. After binding, the PC is connected to VDB2602, and the IP obtained is the binding IP address.



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微能

- 网络设置
 - 广域网
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 - DHCP 客户端列表
 - VPN Passthrough
 - 高级路由配置
 - IPv6
- 无线网络设置
- NAT 设置
- NAS
- 系统管理
- 蓝牙

DHCP 类型	服务器
起始 IP 地址	172.16.10.100
结束 IP 地址	172.16.10.110
子网掩码	255.255.255.0
备用 DNS 服务器	168.95.1.1
其他 DNS 服务器	8.8.8.8
预设信关	172.16.10.254
释放时间	86400
静态指定	MAC: 3C:95:09:67:A1:5D IP: 172.16.10.100
静态指定	MAC: IP:
静态指定	MAC: IP:
802.1d Spanning Tree	停用
LLTD	停用
IGMP Proxy	停用
UPNP	停用
Router Advertisement	停用

Save 确定 取消

3.4 无线参数配置/Wireless parameter configuration

3.4.1 修改 WIFI 热点名、设置固定信道/Modify WIFI hotspot name and set fixed channel



m) i) m) o) bility

启用全部 | 关闭全部

微能

- 运作模式
- 网络设置
- 无线网络设置 1
- 高级设置
- 安全设置
- WPS
- 客户端列表
- 统计资料
- NAT 设置
- NAS
- 系统管理
- 蓝牙

网络模式	11b/g/n mixed mode
网络名称 (服务集合标识符)	SKYLAB_28A1E8F9CE 2 修改SSID热点名
广播网络名称 (服务集合标识符)	<input checked="" type="radio"/> 启用 <input type="radio"/> 停用
AP Isolation	<input type="radio"/> 启用 <input checked="" type="radio"/> 停用
基本服务集合标识符	30:EB:1F:07:1B:A2
频率 (频道)	2452MHz (Channel 9) 切换通信信道
高吞吐量实体模块	
运作模式	<input checked="" type="radio"/> 混合模式 <input type="radio"/> Green Field
频道带宽	<input type="radio"/> 20 <input checked="" type="radio"/> 20/40
保护间隔	<input type="radio"/> 长 <input checked="" type="radio"/> 自动
MCS	Auto
反转方向权限(RDG)	<input checked="" type="radio"/> 停用 <input type="radio"/> 启用
延伸频道	2432MHz (Channel 5)
空时分组编码(STBC)	<input type="radio"/> 停用 <input checked="" type="radio"/> 启用
聚合MAC业务数据单元 (A-MSDU)	<input checked="" type="radio"/> 停用 <input type="radio"/> 启用
自动单一区块确认	<input type="radio"/> 停用 <input checked="" type="radio"/> 启用



m) i) m) o) bility

启用全部 | 关闭全部

微能

- 运作模式
- 网络设置
- 无线网络设置
- 高级设置 1
- 安全设置
- WPS
- 客户端列表
- 统计资料
- NAT 设置
- NAS
- 系统管理
- 蓝牙

基本服务集合标识符	30:EB:1F:07:1B:A2
频率 (频道)	2452MHz (Channel 9)
高吞吐量实体模块	
运作模式	<input checked="" type="radio"/> 混合模式 <input type="radio"/> Green Field
频道带宽	<input type="radio"/> 20 <input checked="" type="radio"/> 20/40
保护间隔	<input type="radio"/> 长 <input checked="" type="radio"/> 自动
MCS	Auto
反转方向权限(RDG)	<input checked="" type="radio"/> 停用 <input type="radio"/> 启用
延伸频道	2432MHz (Channel 5)
空时分组编码(STBC)	<input type="radio"/> 停用 <input checked="" type="radio"/> 启用
聚合MAC业务数据单元 (A-MSDU)	<input checked="" type="radio"/> 停用 <input type="radio"/> 启用
自动单一区块确认	<input type="radio"/> 停用 <input checked="" type="radio"/> 启用
拒绝单一区块确认要求	<input checked="" type="radio"/> 停用 <input type="radio"/> 启用
HT Disallow TKIP	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
HT LDPC	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
其它	
高吞吐量传送数据流	2
高吞吐量接收数据流	2

Save
确定
取消

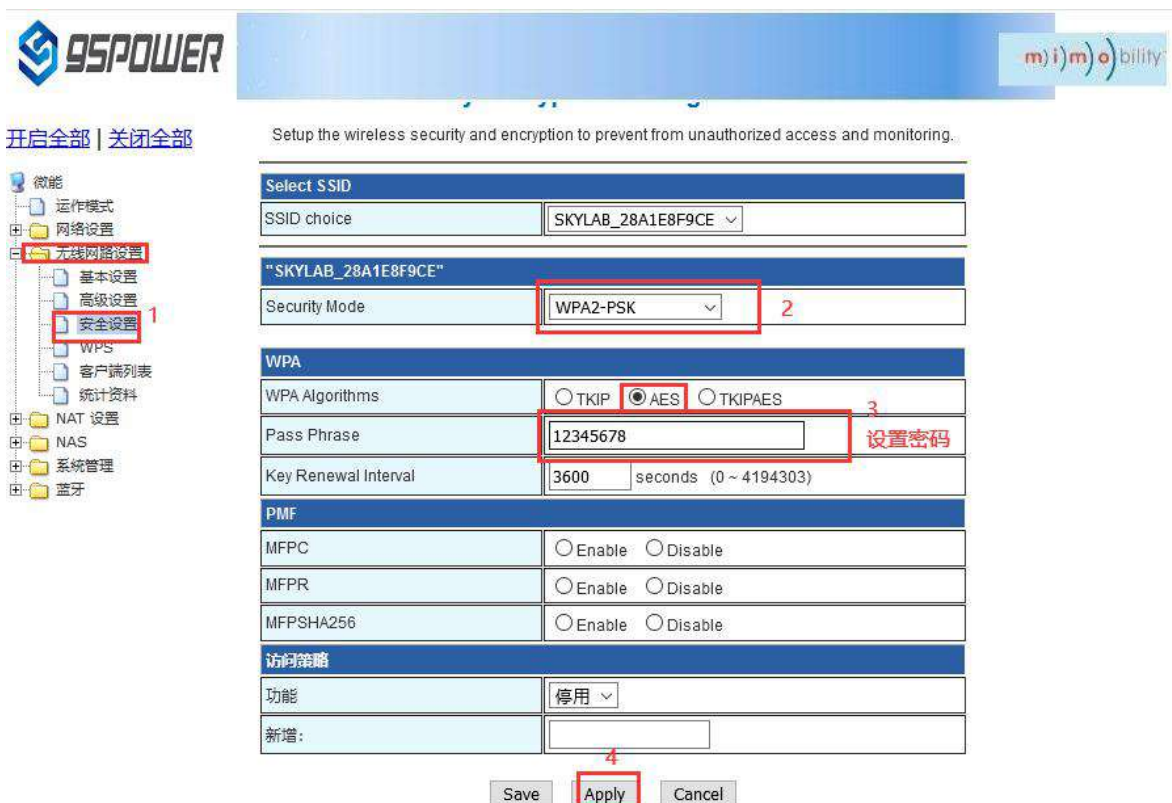
193.169.10.254/index.shtml

3.4.2 设置热点加密/不加密/Set hotspot encryption/unencryption

下面是设置开放热点的步骤图：/Here is the step-by-step diagram for setting up an open hot spot:



下面是介绍设置密码连接的配置图：/Here is the configuration diagram for setting up a password connection:



3.5 设置蓝牙信息/Setting Bluetooth Information

用户可以通过 web 界面配置蓝牙的各种参数，主要包括扫描过滤参数，扫描数据参数、网关蓝牙广播参数、网关蓝牙与 APP 和设备通信的各个 UUID。

On the Web UI, you can set Bluetooth parameters, including scan filter parameters, scan data parameters, gateway Bluetooth broadcast parameters, and UUIDs for the gateway Bluetooth to communicate with apps and devices.

3.5.1 配置蓝牙的过滤信息/ Configure Bluetooth filtering information

(1) 设置/取消扫描过滤的信号强度 RSSI 值/ Set or cancel the RSSI value of the filtered signal strength

① 设置过滤的信号强度 RSSI 值/Set the RSSI value of the filtered signal strength



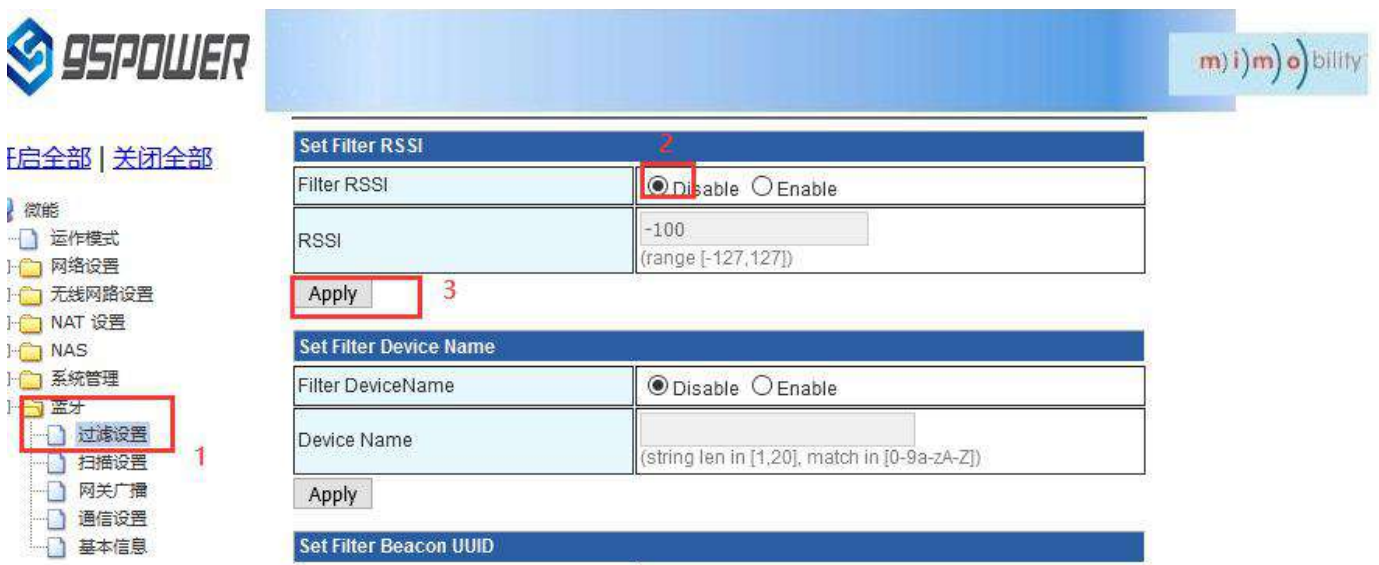
Bluetooth Filter Info Settings

Here you can configure Bluetooth filtering.

Set Filter RSSI	
Filter RSSI	<input type="radio"/> Disable <input checked="" type="radio"/> Enable (2)
RSSI	-100 (3) (range [-127,127])
Apply (4)	

Set Filter Device Name	
Filter DeviceName	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Device Name	<input type="text"/> (string len in [1,20], match in [0-9a-zA-Z])

② 取消扫描过滤的信号强度 RSSI 值设置/Cancel the RSSI value of the scanned signal strength



Bluetooth Filter Info Settings

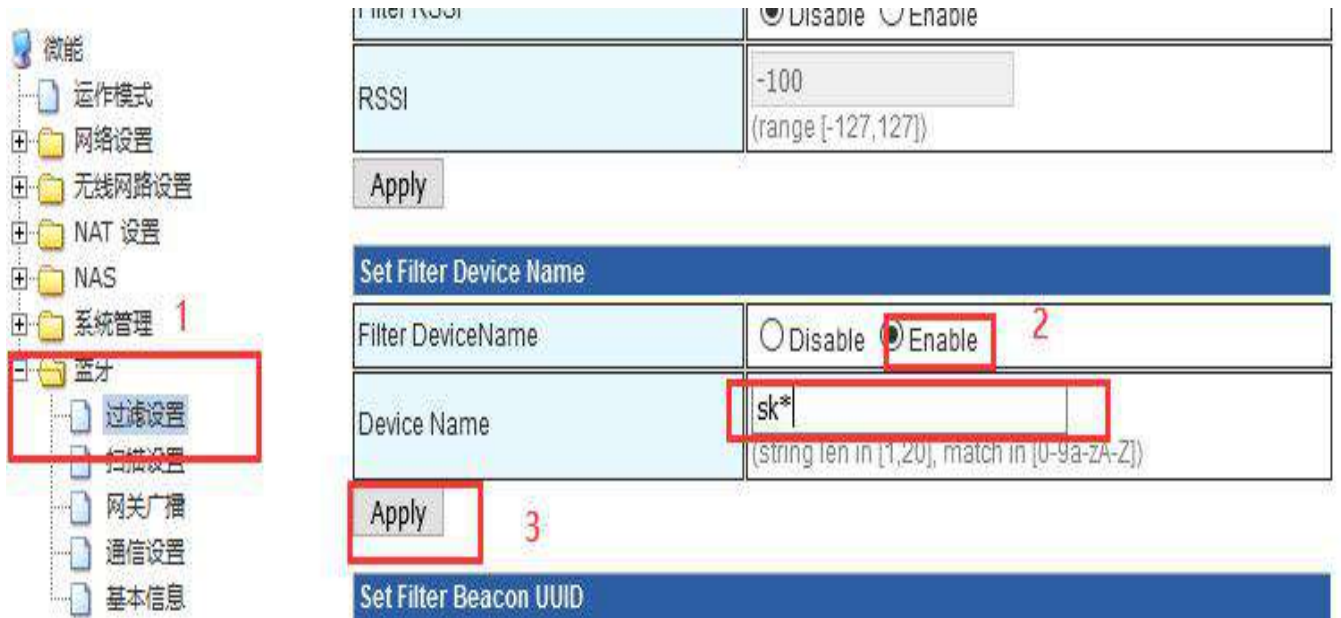
Here you can configure Bluetooth filtering.

Set Filter RSSI	
Filter RSSI	<input checked="" type="radio"/> Disable <input type="radio"/> Enable (2)
RSSI	-100 (range [-127,127])
Apply (3)	

Set Filter Device Name	
Filter DeviceName	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Device Name	<input type="text"/> (string len in [1,20], match in [0-9a-zA-Z])
Apply	

(2) 设置/取消扫描过滤的设备名称/Set or cancel the name of the device for scanning filtering

① 设置扫描的设备名称/ Set the name of the device to be scanned



微能

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- 无线网络设置
- NAT 设置
- NAS
- 系统管理
- 蓝牙
 - 过滤设置
 - 扫描设置
 - 网关广播
 - 通信设置
 - 基本信息

Filter RSSI

☒ Disable ☐ Enable

RSSI

-100

(range [-127,127])

Apply

Set Filter Device Name

Filter DeviceName

☐ Disable ☒ Enable

Device Name

sk*

(string len in [1,20], match in [0-9a-zA-Z])

Apply

Set Filter Beacon UUID

② 取消过滤设备名称的设置/ The setting of filtering device name is canceled



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微能

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Set Filter RSSI

Filter RSSI

☒ Disable ☐ Enable

RSSI

-100

(range [-127,127])

Apply

Set Filter Device Name

Filter DeviceName

☒ Disable ☐ Enable

Device Name


sk*

(string len in [1,20], match in [0-9a-zA-Z])

Apply

Set Filter Beacon UUID

① 设置扫描过滤 Beacon UUID / Set the scan filter Beacon UUID



mi)mo)bility

开启全部 | 关闭全部

微能

运作模式

网络设置

无线网络设置

NAT 设置

NAS

系统管理

蓝牙

过滤设置

扫描设置

网关广播

通信设置

基本信息

Set Filter RSSI

Filter RSSI

☒ Disable ☐ Enable

RSSI

-100

(range [-127,127])

Apply

Set Filter Device Name

Filter DeviceName

☒ Disable ☐ Enable

Device Name

sk*

(string len in [1,20], match in [0-9a-zA-Z])

Apply

Set Filter Beacon UUID

Filter Beacon UUID

☐ Disable ☒ Enable

Beacon UUID

1231111111111111111111111111111122222222

(string len is 32, match in [a-fA-F0-9])

Apply

1

2

3


4

② 取消扫描过滤 Beacon UUID 的设置 / The setting of scanning and filtering Beacon UUID was canceled

[illegible]

(4) 设置/取消扫描过滤的 Company ID / Set or cancel the Company ID of scan filtering

① 设置扫描过滤的 Company ID / Set the Company ID of the scan filter



m) i) m) o) bility

开启全部 | 关闭全部

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 - 运作模式
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 - 无线网络设置
 - NAT 设置
 - NAS
 - 系统管理
 - 蓝牙
 - 过滤设置 1
 - 扫描设置
 - 网关广播
 - 通信设置
 - 基本信息

Set Filter RSSI

Filter RSSI	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
RSSI	<input type="text" value=""/>
<small>(range [-127,127])</small>	
Apply	

Set Filter Device Name

Filter DeviceName	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Device Name	<input type="text" value=""/>
<small>(string len in [1,20], match in [0-9a-zA-Z])</small>	
Apply	


Set Filter Beacon UUID

Filter Beacon UUID	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Beacon UUID	<input type="text" value=""/>
<small>(string len is 32, match in [a-fA-F0-9])</small>	
Apply	

Set Filter Company ID

Filter Company ID	<input type="radio"/> Disable <input checked="" type="radio"/> Enable 2
Company ID	<input type="text" value="004d"/>
<small>(string len is 4, match in [a-fA-F0-9])</small>	
Apply 3	

② 取消扫描过滤 Company ID 的设置/ The setting of filtering the Company ID is canceled



m) i) m) o) bility

开启全部 | 关闭全部

- 微能
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 - 无线网络设置
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RSSI

<input type="text" value=""/>	<small>(range [-127,127])</small>
Apply	

Set Filter Device Name

Filter DeviceName	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Device Name	<input type="text" value=""/>
<small>(string len in [1,20], match in [0-9a-zA-Z])</small>	
Apply	

Set Filter Beacon UUID

Filter Beacon UUID	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Beacon UUID	<input type="text" value=""/>
<small>(string len is 32, match in [a-fA-F0-9])</small>	
Apply	

Set Filter Company ID 2

Filter Company ID	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Company ID	<input type="text" value="004C"/>
<small>(string len is 4, match in [a-fA-F0-9])</small>	
Apply 3	

3.5.2 配置蓝牙扫描参数/Configure Bluetooth scanning parameters

(1) 设置扫描输出开关/ Set the scan output switch

设置蓝牙扫描输出开关的步骤如下图：

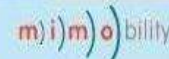
The steps for setting the Bluetooth scan output switch are as follows:



(2) 设置是否启动扫描请求/Set whether to enable the scan request

当启动扫描请求时，扫描输出的数据量为 62 字节，默认是启动的。当不启动扫描请求时，扫描输出的数据量为 31 字节。

When the scan request is started, the amount of data output from the scan is 62 bytes. It is started by default. When the scanning request is not enabled, the output data is 31 bytes.



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Bluetooth Scan Info Settings

Here you can configure Bluetooth scanning.

Set Scan Switch

Scan Switch ☐ Disable ☒ Enable

Apply

Disable: 扫描的蓝牙数据量为31

Enable: 扫描的蓝牙数据量为62

Set Scan Request Switch

Scan Request Switch ☐ Disable ☒ Enable 2

Apply 3

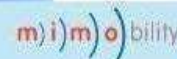
Set Scan Interval

Scan Interval(ms) 500

(3) 设置扫描输出的时间间隔/Set the interval time for scanning output

设置扫描输出的时间间隔，最小值为 500ms。

Set the interval for scanning output. The minimum value is 500ms.



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Bluetooth Scan Info Settings

Here you can configure Bluetooth scanning.

Set Scan Switch

Scan Switch ☐ Disable ☒ Enable

Apply

Set Scan Request Switch

Scan Request Switch ☐ Disable ☒ Enable

Apply

Set Scan Interval

Scan Interval(ms) 5000 2
(range in [500, 4294967295]ms)

单位为ms

Apply 3

(4) 设置单次输出设备信息数量/Set the number of output device information

设置单次输出的设备信息的数量，最小为 1。

Set the number of device information to be output at a time. The minimum value is 1.



Bluetooth Scan Info Settings

Here you can configure Bluetooth scanning.

Set Scan Switch

Scan Switch: ☐ Disable ☒ Enable

Apply

Set Scan Request Switch

Scan Request Switch: ☐ Disable ☒ Enable

Apply

Set Scan Interval

Scan Interval(ms): 5000 (range in [500,4294967295]ms)

Apply

Set Scan Device Number

Scan Device Number: 10 (range in [1,65535])

Apply

此时输出的设备为10

3.5.3 配置网关广播配置信息/ Configure the gateway broadcast configuration

(1) 设置网关广播开关/Set the gateway broadcast switch

默认网关开启蓝牙广播，用户可根据需求关闭蓝牙广播。

Bluetooth broadcasting is enabled on the default gateway. You can disable Bluetooth broadcasting as required.



The Gateway Broadcast Info Settings

Here you can configure the gateway broadcast informatio. **Disable:关闭蓝牙广播**
Enable:开启蓝牙广播

Set Gateway Broadcast Switch

Gateway Broadcast Switch: ☐ Disable ☒ Enable

Apply

Set Gateway Broadcast Name

Gateway Broadcast Name: **** (string len is [1,20], match in [0-9a-zA-Z])

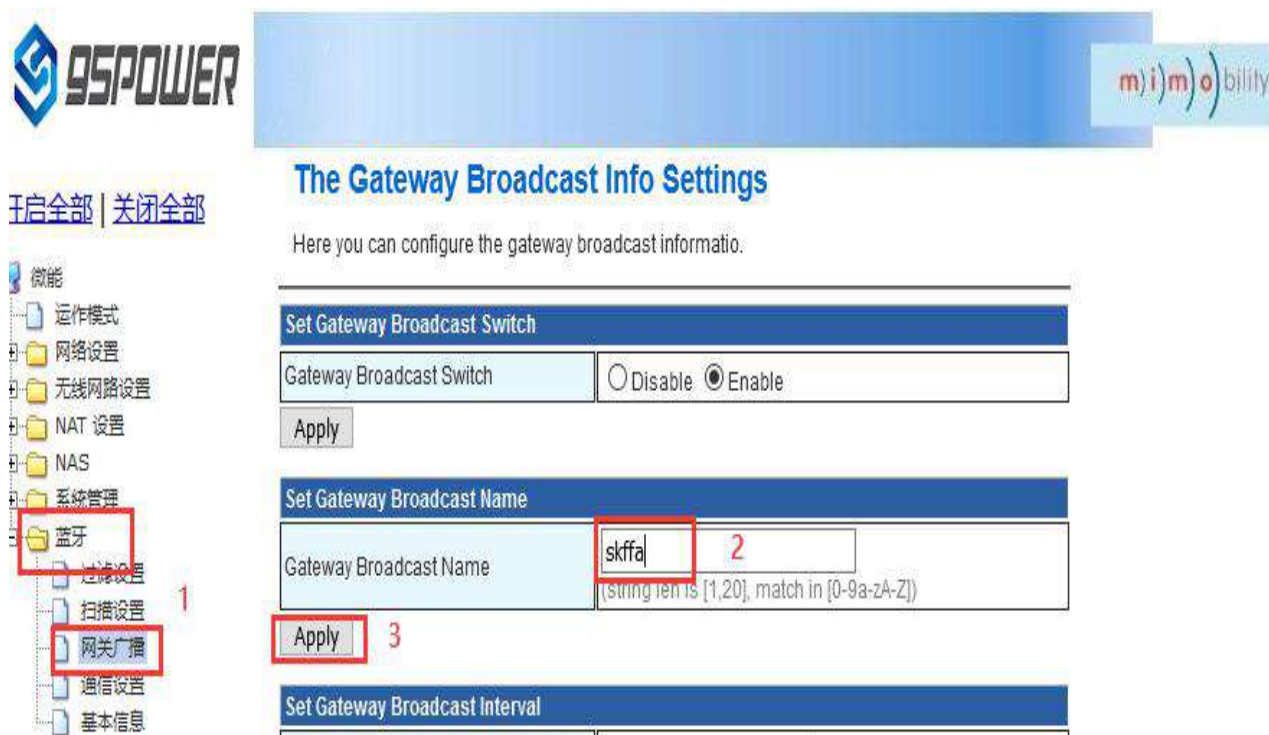
Apply

Set Gateway Broadcast Interval

(2) 设置网关广播名称/Set the broadcast name of the gateway

设置蓝牙广播的名称，长度最大 20 字节。

Set the name of the Bluetooth broadcast. The maximum length is 20 bytes.



The Gateway Broadcast Info Settings

Here you can configure the gateway broadcast information.

Set Gateway Broadcast Switch

Gateway Broadcast Switch ☐ Disable ☒ Enable

Apply

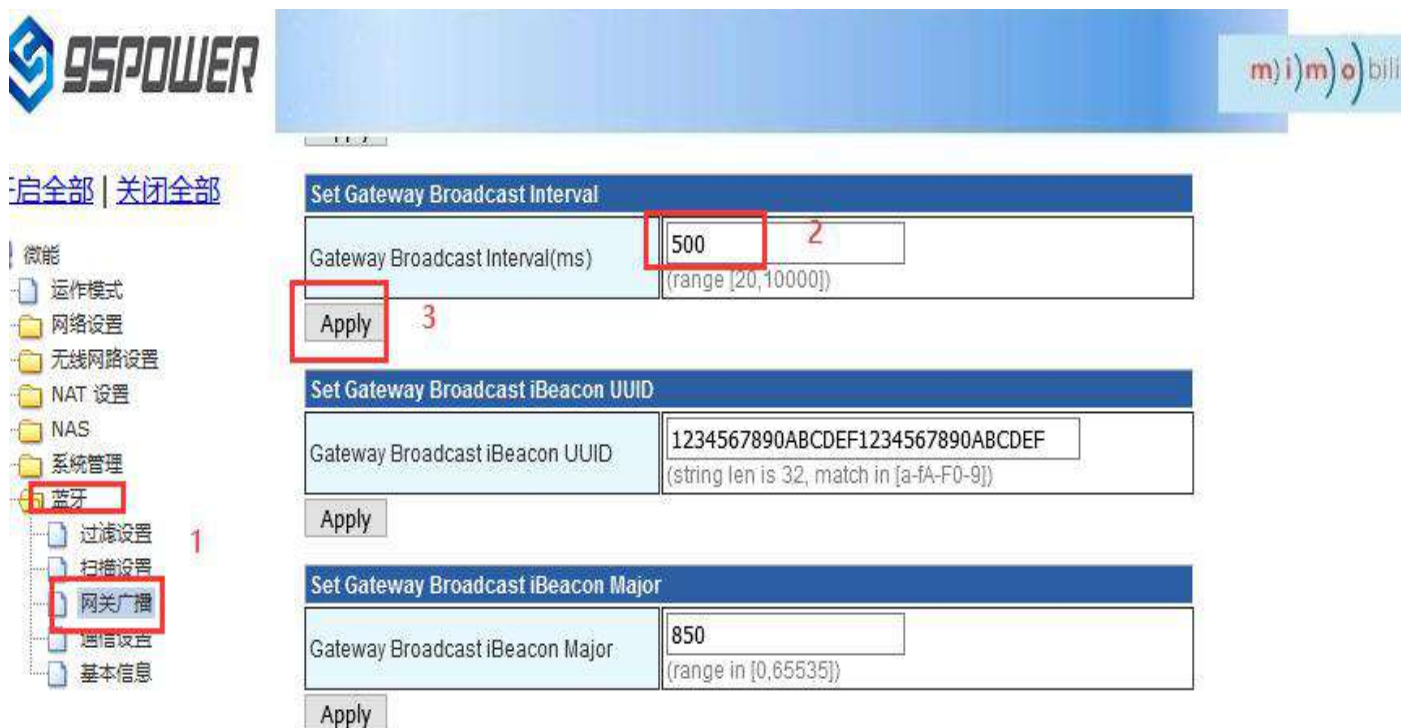
Set Gateway Broadcast Name

Gateway Broadcast Name (string len is [1,20], match in [0-9a-zA-Z])

Apply

Set Gateway Broadcast Interval

(3) 设置网关广播的间隔/Set the gateway broadcast interval



Set Gateway Broadcast Interval

Gateway Broadcast Interval(ms) (range [20,10000])

Apply

Set Gateway Broadcast iBeacon UUID

Gateway Broadcast iBeacon UUID (string len is 32, match in [a-fA-F0-9])


Apply

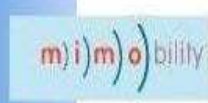
Set Gateway Broadcast iBeacon Major

Gateway Broadcast iBeacon Major (range in [0,65535])

Apply

(4) 设置网关广播的 iBeacon UUID/Set the iBeacon UUID of the gateway broadcast





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Set Gateway Broadcast Interval

Gateway Broadcast Interval(ms)	500 <small>(range [20,10000])</small>
--------------------------------	--

Apply

Set Gateway Broadcast iBeacon UUID

Gateway Broadcast iBeacon UUID	1234567890ABCDEF1234567890ABCDEF 2 <small>(string len is 32, match in [a-fA-F0-9])</small>
--------------------------------	---


Apply 3

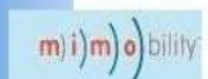
Set Gateway Broadcast iBeacon Major

Gateway Broadcast iBeacon Major	850 <small>(range in [0,65535])</small>
---------------------------------	--

Apply

(5) 设置网关广播的 iBeacon Major/Set the iBeacon Major of the gateway broadcast





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Apply

Set Gateway Broadcast iBeacon UUID

Gateway Broadcast iBeacon UUID	1234567890ABCDEF1234567890ABCDEF <small>(string len is 32, match in [a-fA-F0-9])</small>
--------------------------------	---

Apply

Set Gateway Broadcast iBeacon Major

Gateway Broadcast iBeacon Major	0 2 <small>(range in [0,65535])</small>
---------------------------------	--

Apply 3

Set Gateway Broadcast iBeacon Minor

Gateway Broadcast iBeacon Minor	999 <small>(range in [0,65535])</small>
---------------------------------	--

(6) 设置网关广播的 iBeacon Minor / Set the iBeacon Minor of the gateway broadcast



m)i)m)o)bility

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NAT 设置

NAS

系统管理

蓝牙

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通信设置

基本信息

Set Gateway Broadcast iBeacon UUID

Gateway Broadcast iBeacon UUID

1234567890ABCDEF1234567890ABCDEF

(string len is 32, match in [a-fA-F0-9])

Apply

Set Gateway Broadcast iBeacon Major

Gateway Broadcast iBeacon Major

0

(range in [0,65535])

Apply

Set Gateway Broadcast iBeacon Minor

Gateway Broadcast iBeacon Minor

0

2

(range in [0,65535])

Apply

3

(7) 设置网关广播的 iBeacon Measured power / Set iBeacon Measured power for gateway

broadcasting



m)i)m)o)bility

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微能

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Set Gateway Broadcast iBeacon UUID

Gateway Broadcast iBeacon UUID

1234567890ABCDEF1234567890ABCDEF

(string len is 32, match in [a-fA-F0-9])

Apply

Set Gateway Broadcast iBeacon Major

Gateway Broadcast iBeacon Major

0

(range in [0,65535])

Apply

Set Gateway Broadcast iBeacon Minor

Gateway Broadcast iBeacon Minor

0

(range in [0,65535])

Apply

Set Gateway Broadcast iBeacon Measured power

Gateway Broadcast iBeacon Measured power(dbm)

-78

2


(range in [-127,127])

Apply

3

3.6 配置与通信相关参数/Configure communication parameters

3.6.1 配置与 APP 通信的 UUID / Configure the UUID for communicating with the APP



Configure parameters for communication with app or device

Here you can configure the parameters to communication with app or device

Set APP Parameters

Service UUID	FED76543211234567890098765432112 (string len is 32, match in [a-fA-F0-9])	设置与APP通信的服务UUID
Write UUID	ABCDEF1234567890ABCDEF1234567892 (string len is 32, match in [a-fA-F0-9])	设置蓝牙与APP通信的写特征UUID
Notify UUID	ABCDEF1234567890ABCDEF1234567891 (string len is 32, match in [a-fA-F0-9])	设置蓝牙与APP通信的通知特征UUID

Apply

以上三个值不能相互相同

Set Device Parameters

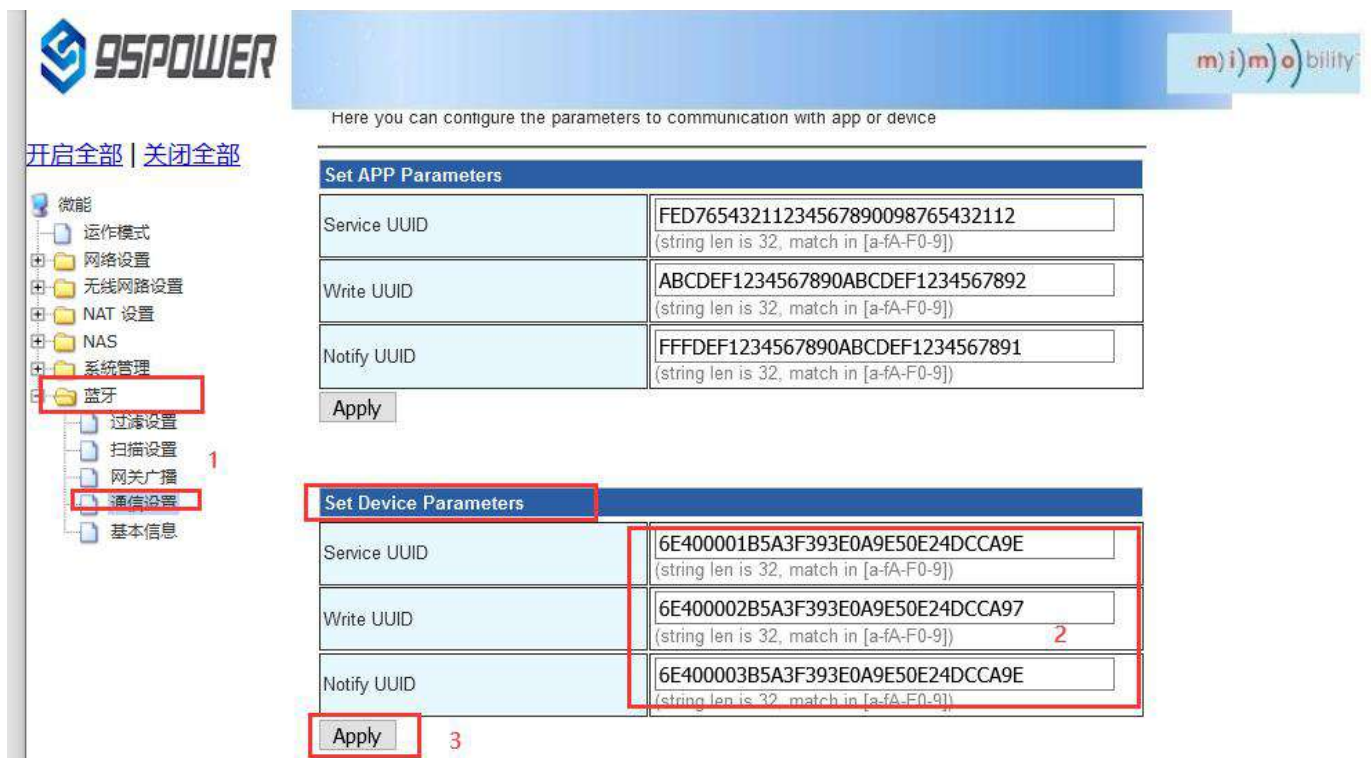
```
app_service_uuid = FED76543211234567890098765432112
app_write_uuid = ABCDEF1234567890ABCDEF1234567892
app_notify_uuid = FFFDEF1234567890ABCDEF1234567891
```

点击“通信设置”，查看设置情况。设置成功后，需要重启网关，使配置生效。下面是重启网关的操作。

Click "通信设置" to view the Settings. After the configuration, restart the gateway for the configuration to take effect. The following is how to restart the gateway.

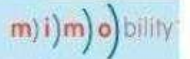


3.6.2 配置与设备通信的 UUID / Configure the UUID used to communicate with the device



点击 apply 后，会跳转界面，如下所示：

Click apply, the interface will jump to, as shown below:



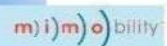
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```
dev_service_uuid = 6E400001B5A3F393E0A9E50E24DCCA9E
dev_write_uuid = 6E400002B5A3F393E0A9E50E24DCCA97
dev_notify_uuid = 6E400003B5A3F393E0A9E50E24DCCA9E
```

点击“通信设置”返回对应界面，查看设置情况。设置成功后，需要重启网关，使配置生效，操作如下：

Click "通信设置" to return to the corresponding interface and check the Settings. After the configuration is successful, restart the gateway for the configuration to take effect. operation is as follows:



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 - 上传物体
 - 设置管理
 - 状态
 - 统计资料
 - 蓝牙
 - 过滤设置
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汇入设置	
设置档位置	浏览... 未选择文件。
<input type="button" value="汇入"/> <input type="button" value="取消"/>	
装入原厂默认值	
装入默认值按钮	装入默认值
Reboot System	
Reboot System Button	<input type="button" value="Reboot System"/>
Server Type: <input type="text" value="TCP Server"/>	
TCP Server Init	
TCP Server Init IP Setting	<input type="text" value="10.10.10.100"/>
TCP Server Init Port Setting	<input type="text" value="3333"/>
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

激活 Wind
转到“设置”以

4 型号信息/Ordering information

主型号 Model	子型号 Sub-model	料号 Part No.	备注 Note
VDB2602	S	39038	单蓝牙 4.2/5.0 扫描器, 量产状态 Single BLE scanner, MP State
	D	3903801	双路蓝牙 4.2+5.0 扫描器, 样品阶段 Dual BLE 4.2+5.0 scanners, Sample State
	S-L	3903802	VDB2602S 基础上支持 LTE 4G, 样品阶段 Add LTE 4G on VDB2602S, Sample State
	S-N	3903803	VDB2602S 基础上支持 LTE Cat.1, 样品阶段 Add LTE Cat.1 on VDB2602S, Sample State

5.联系方式/Content information

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