

# VDB2607 Bluetooth Gateway With PoE Datasheet

## Document Information

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## Reversion History

Revision	Description	Approved	Date
V1.0	Initial Release	Sandi Li	2019.10.23
V1.01	Add different antenna combinations	Sherman	2020.4.8
V1.02	Update Poe power supply part description	Susan	2021.1.25

## Bill of Material

Name	Mdel	Quantity	Remark
Bluetooth Gateway	VDB2607	1	VDB2607
AC-DC Adapter	BSF-137F	1	IN:AC100-240V/OUTPUT: 5.0V±10%

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## 1. General Description

VDB2607 is an outdoor Bluetooth Gateway with POE or DC power supply. It can be used in various scenarios flexibly. For example, in BLE device remote controlling, it can be used to broadcast information to BLE receivers. Or it can collect data sent by the BLE device and sends it to servers.

VDB2607 support BLE 5.0 with up to 8dBm broadcast TX power, which make it easy to cover more than 100 meters. Its data rate can be up to 2Mbps, allowing longer broadcasting data which contains more information.

The ethernet/WiFi data rate can be up to 100Mbps/580Mbps. It can help provide faster data transmission between server and client BLE devices.

VDB2607 also reserves the zig-bee support and 5G LTE support, making it ready for the coming everything-on-net era.



Figure1: VDB2607

## 1.1 Application Block Diagram

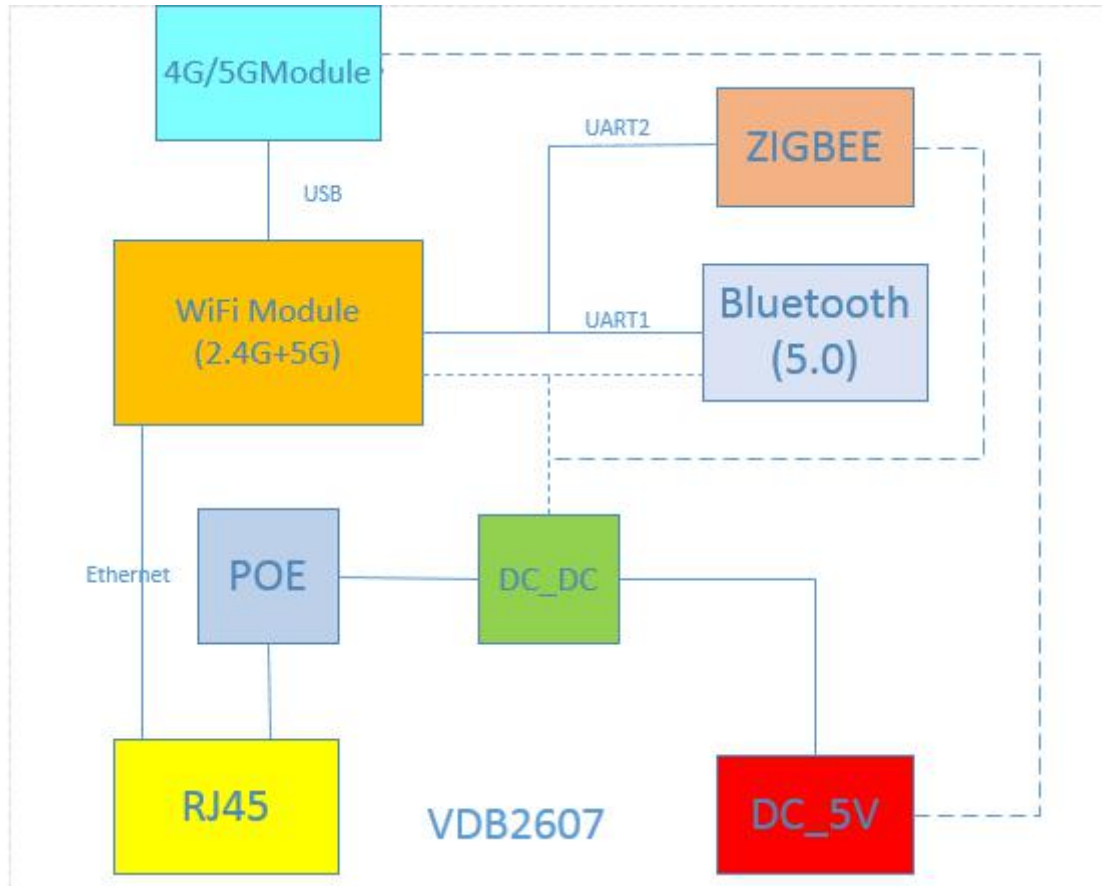


Figure 2: VDB2607 Block Diagram

## 1.2 Features

Supports the POE switch power supply and 5V adapter power supply;

Support IEEE802.3-2012 Type 1 , the IEEE802.3-2012 Type 1 requires a power supply device (PSE) to provide 44 to 57 V, and the power of the powered device (PD) must not exceed 12.95 W and the current does not exceed 350 mA;

Support IEEE 802.11ac, IEEE 802.11n, IEEE 802.11g, IEEE 802.11b Protocol;

Supporting Network Communication of 4G Module (LTE-TDD/LTE-FDD);

Support Bluetooth ® 5.0;

Supporting waterproof and dustproof;

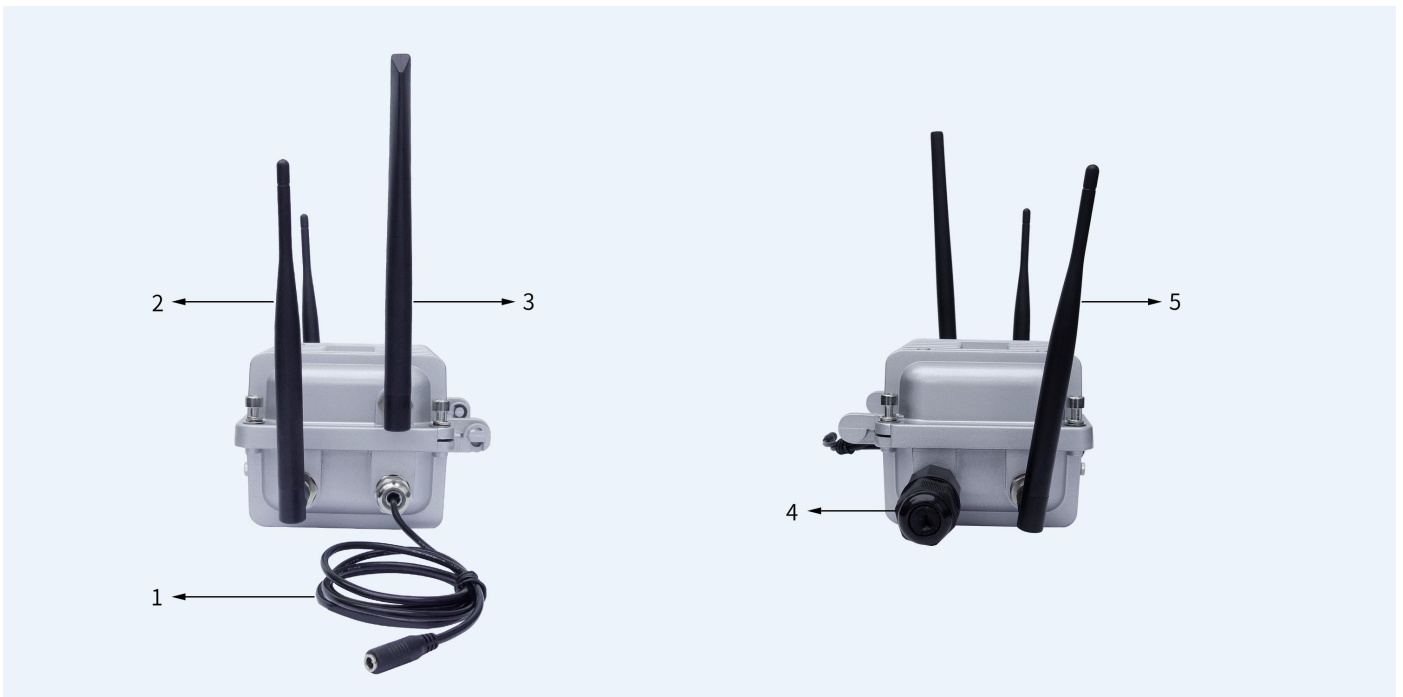
One WAN/LAN variable network port.

RoHS compliance (Lead-free);

FCC,CE compliance.

### 1.3 Interface

Antenna Type1: 3 antennas with no LTE support



1: DC\_DC Power Supply Interface( $\phi$ 3.5mm);

2: 2.4GHz WiFi antenna;

3: 5GHz WiFi antenna;

4: RJ45 Interface(Network Interface and POE Power Supply Interface);

5: BLE antenna.

Antenna Type2: 4 antennas with LTE support but no POE

4: RJ45 Interface is removed and replaced by LTE Antenna (Compared with Antenna Type1)

Antenna Type3: 4 antennas with POE support but no DC

1: DC\_IN is removed and replaced by LTE Antenna(Compared with Antenna Type1)



### 1.3.1 WAN/LAN Port

The VDB2607 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. Default net-line order is 1,2,3,6,like the figure below). The network port is a WAN/LAN variable port.

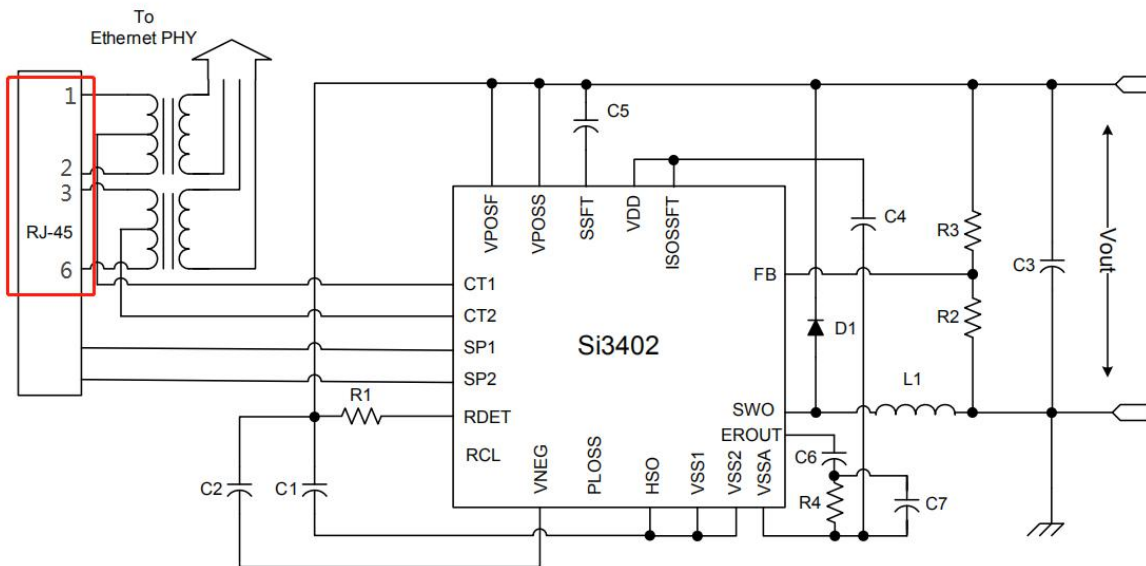


Figure 1.3.1: VDB2607 POE

**Attention: None-standard POE power supply may damage this product!**

Working mode	net gape
AP Client	LAN
Getway	WAN

Table 1.3.1 Ethernet port working mode

### 1.3.2 Power Supply Port

The VDB2607 power interface supports DC input, input voltage range is 4.5V to 5.5V, and the current is greater than 1000mA. The voltage interface adopts the DC power socket, and power seat aperture is 3.5mm. The needle diameter is 1.35 mm and is positive.

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

### 1.3.3 Reset

There is a reset button inside the VDB2607. After pressing the reset button for more than 5 seconds, the VDB2607 WiFi unit will be restored to the factory settings.

### 1.3.4 LED

There are four LED lights in VDB2607:

- 1)Power LED normally on when powered on;
- 2)Network LED normally on when connected;
- 3)WiFi LED normally on after connecting to WiFi for 1-2sec;
- 4)Bluetooth LED flashing once power on.

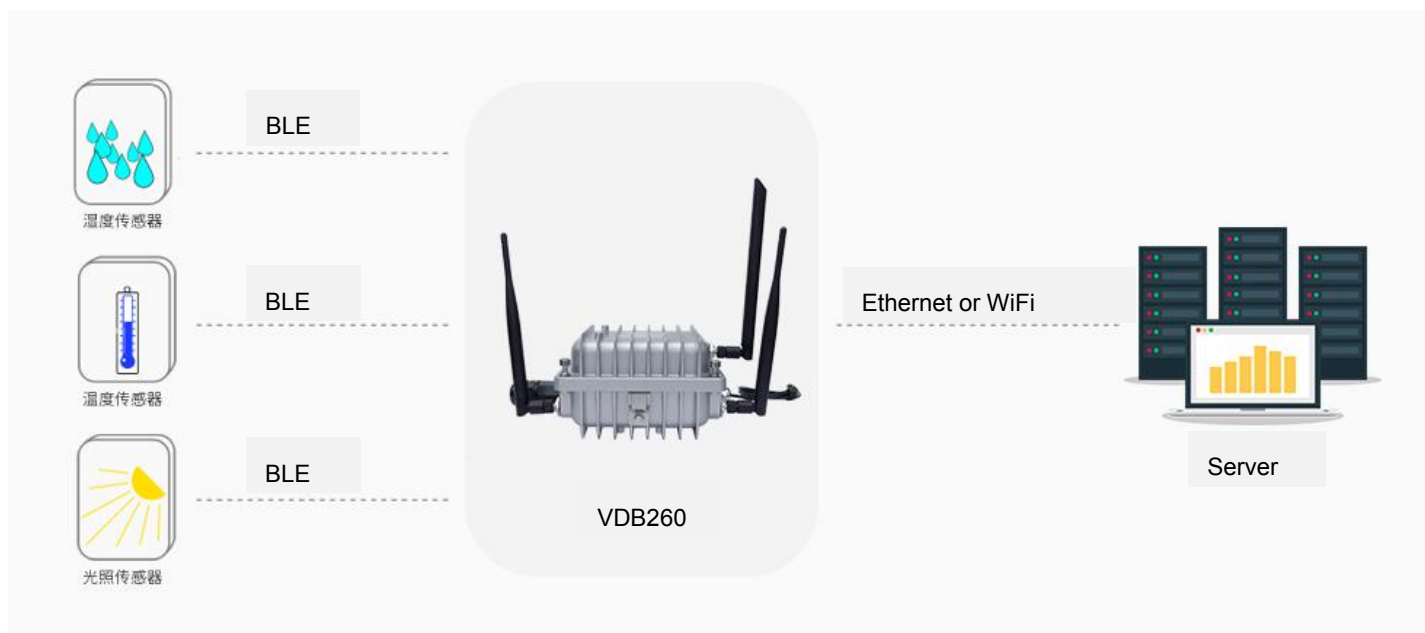
## 1.4 Applications

### 1.4.1 Indoor Positioning:

- 1)VDB2607 Bluetooth module collects information about Beacon nearby, including RSSI, MAC, etc., once per second.
- 2)Bluetooth module send the Beacon information to WiFi module through UART serial port, once per second.
- 3)WiFi module transfers the Beacon information to the specified UDP server, and accepts the information returned by the server.
- 4)Beacon locations can be displayed on the front page after the UDP server analyze and calculate the beacon information. An order can also be delivered to the WiFi module, then sent to the bluetooth module to develop different functions (such as: Lighting lamps and lanterns etc.).

### Schematic of Positioning:





Remark: VDB2607 can be connected to the Internet via the POE switch or the wireless router.

## 2. Module Specification

Dimension	Length: 153mm, width: 138mm, height: 97mm
Power Supply	DC 4.5V to 5.5V 、 POE 44V to 57V
Currents	350mA@5V
Operating Temperature	-20°C~70°C
Interface	WAN Port and Power Supply Port
<b>WiFi</b>	
WiFi Protocol	IEEE 802.11ac, IEEE 802.11n, IEEE 802.11g, IEEE 802.11b
Data 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 : MCS0~MCS7 @ HT20/ 2.4GHz band MCS0~MCS7 @ HT40/ 2.4GHz band MCS0~MCS9 @ HT40/ 5GHz band
	IEEE 802.11ac: MCS0~MCS9 @ VHT80/ 5GHz band
Sensitivity	VHT80 MCS9 : -60dBm@10% PER(MCS9) /5GHz band
	HT40 MCS9 : -63dBm@10% PER(MCS9) /5GHz band
	HT40 MCS7 : -70dBm@10% PER(MCS7) /2.4GHz band
	HT20 MCS7 : -71dBm@10% PER(MCS7) /2.4GHz band
	54M: -76dBm@10% PER
	11M: -88dBm@ 8% PER
Transmit Power	IEEE 802.11ac: 13dBm @HT80 MCS9 /5GHz band
	IEEE 802.11ac: 16dBm @HT80 MCS0 /5GHz band
	IEEE 802.11n: 14dBm @HT20/40 MCS7 /5GHz band
	IEEE 802.11n: 16dBm @HT20/40 MCS0 /5GHz band
	IEEE 802.11n: 16dBm @HT20/40 MCS7 /2.4GHz band
	IEEE 802.11g: 16dBm @54MHz
	IEEE 802.11b: 18dBm @11MHz
Wireless Security	WPA/WPA2, WEP, TKIP, and AES
Working mode	Bridge、 Gateway、 AP Client

<b>Bluetooth</b>	
Bluetooth Protocol	Bluetooth ® 5.0
Data Rate	Uncoded:1Mbps/2Mbps,Coded:125kbps(S=8)/500kbps(S=2)
Wireless Security	AES HW Encryption
Connection Distance	150m
Transmit Power	Tx Power -20 to +8 dBm in 4 dB Steps

### 3. Configuration

#### 3.1 network topology

##### 3.1.1 Access through the superior routing network segment

In the Gateway mode of VDB2607, the only network port is WAN,, PC and VDB2607 connect the same superior route, access VDB2607.

VDB2607 works in APCLI mode, where the PC accesses VDB2607 through the same superior route as VDB2607.

The following figure is the topology of the network connection. The WAN port of VDB2607 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 VDB2607 can be accessed through the browser on the PC.

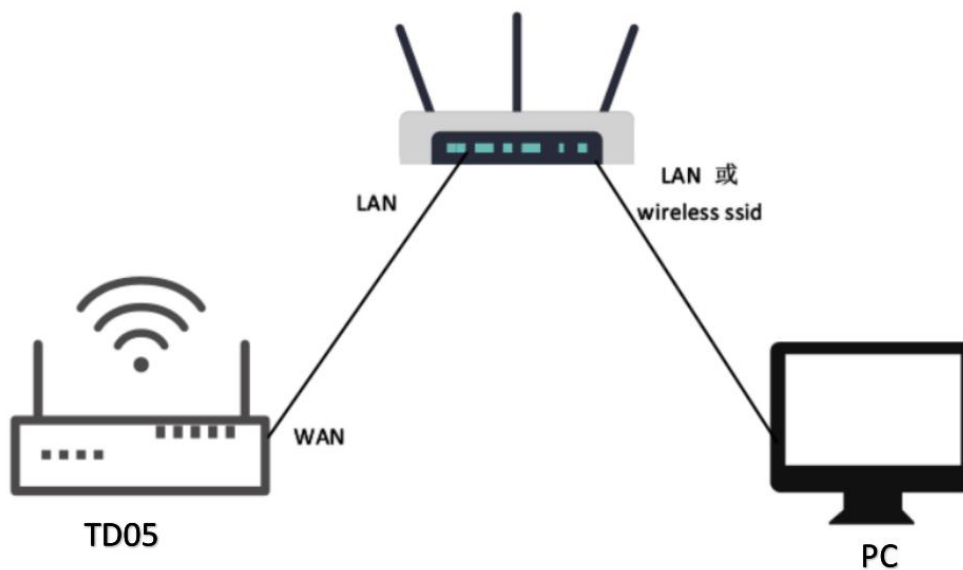


图 3.1 Access through the superior routing network segment

It is assumed that the IP address assigned to VDB2607 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 VDB2607 can be entered. As shown in the figure below



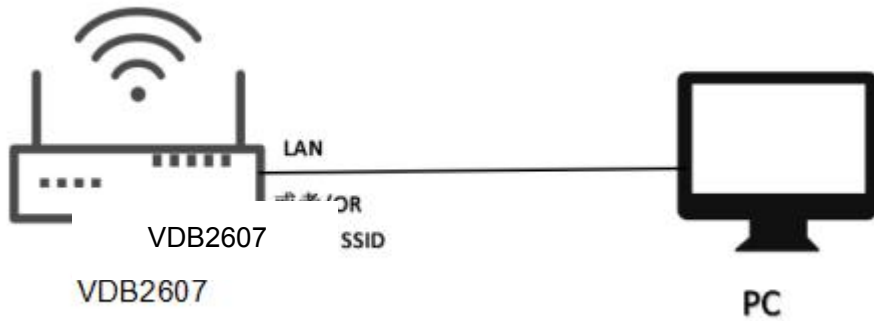
The password of VDB2607 is admin/admin.

### 3.1.2 Connect via LAN

VDB2607 in Gateway mode, the PC accesses the WIFI module through the WIFI hotspot of VDB2607.

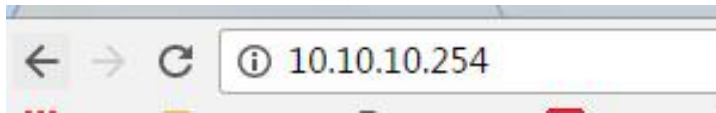
VDB2607 In AP-CLI mode, THE PC can access the WIFI module through the WIFI hotspot of VDB2607 and the unique network port.

After connecting to VDB2607 in the above way, VDB2607 will assign the IP address to the PC. Users can log in to the administration interface of VDB2607 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 VDB2607, then the user can go to the management interface of VDB2607 through the browser on the PC at 10.10.10.254.



Access via VDB2607 LAN

The following is a screenshot of the access on PC:



## 3.2 Wan configuration

### 3.2.1 Wan port access to the Internet

(1) The system works in gateway mode by default;



Note: Click Save, the configuration can be saved, but it will not take effect immediately. It can be determined once the system is configured.

Click "OK", it will take effect immediately, the network will restart, need to wait for the network recovery;

(2) Wan for dynamic address allocation;



(3) Check the status



### 3.2.2 wireless internet

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

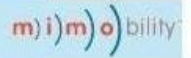




(2) The WAN is configured for dynamic address assignment;



(3) Configure superior AP information;



开启全部 | 关闭全部

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

### AP Client Feature

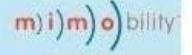
You could configure AP Client parameters here.

AP Client Parameters	
SSID	SKYLAB91
MAC Address (Optional)	
Security Mode	WPA2PSK <span style="color: red;">2</span>
Encryption Type	AES
Pass Phrase	Skylab20026

3

### 3.2.3 Mobile 4G Internet

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



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

### 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

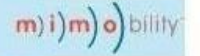
- Bridge:  
所有以太网网络埠、以及无线网络界面，皆被串连到单一的桥接器界面。
- Gateway:  
第一个以太网网络埠视为广域网络端。其他的以太网网络埠、以及无线网络界面，则串连到单一的桥接器界面，并视为局域网端。
- AP Client:  
无线网络界面的客户端视为广域网络端。无线网络界面的基地台端、以及所有以太网网络埠，则串连到单一的桥接器界面，并视为发域网络端。

启用 NAT

TCP Timeout

UDP Timeout

(2) Wan configuration 3G network mode;



开启全部 | 关闭全部

### 广域网络设置

您可以依您的环境选择适当的联机模式，并针对不同的联机模式设置参数。

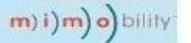


广域网络联机模式: 3G 2

4G 模式	
APN	<input type="text"/>
PIN	<input type="text"/>
Dial Number	<input type="text"/>
Username	<input type="text"/>
Password	<input type="text"/>
USB 4G 调制解调器	AutoDetect <input type="text"/>
MAC 复制	
Enabled	停用 <input type="text"/>

3 Save 确定 取消

(3) Check the network status;



开启全部 | 关闭全部

### 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	
联机型态	3G
广域网络IP地址	<input type="text"/>
子网络遮罩	<input type="text"/>
默认网关	<input type="text"/>
主要域名服务器	<input type="text"/>
次要域名服务器	<input type="text"/>
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 LAN configuration

### 3.3.1 Change the LAN IP address

The default LAN segment of VDB2607 is 10.10.10.254/24. Customers can modify the LAN IP address according to their needs. The following steps are described:

(1) 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。

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

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

Save **确定** 取消

(2) 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.



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/Add LAN segment

Lan2 can be added to LAN segment in VDB2607. Lan2 is not enabled by default.

- (1) Follow the steps below to set up LAN2

开启全部 | 关闭全部

### 局域网设置

您可以启用/停止以及设置所有的网络功能。

- 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	
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 <span style="border: 1px solid red; padding: 2px;">2</span>
局域网 2 IP 地址	<span style="border: 1px solid red; padding: 2px;">193.169.10.254</span>
局域网 2 子网络遮罩	<span style="border: 1px solid red; padding: 2px;">255.255.255.0</span>
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

开启全部 | 关闭全部

- 微能
  - 运作模式
  - 网络设置
    - 广域网
    - 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

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 <span style="border: 1px solid red; padding: 2px;">3</span>

Save 确定 取消

(2) 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.

Internet 协议版本 4 (TCP/IPv4) 属性

常规

如果网络支持此功能，则可以获取自动指派的 IP 设置。否则，你需要从网络系统管理员处获得适当的 IP 设置。

自动获得 IP 地址(O)

使用下面的 IP 地址(S):

IP 地址(I): 193 . 169 . 10 . 1 1

子网掩码(U): 255 . 255 . 255 . 0

默认网关(D): . . .

自动获得 DNS 服务器地址(B)

使用下面的 DNS 服务器地址(E):

首选 DNS 服务器(P): . . .

备用 DNS 服务器(A): . . .

退出时验证设置(L)

高级(V)...

确定 取消

← → ↻ 🏠

🔒 193.169.10.254

📁 火狐官方网站 🌐 新手上路 📁 常用网址 🛒 京东商城

95POWER APSoC

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微能

- 运作模式
- 网络设置
- 无线网路设置
- NAT 设置
- NAS
- 系统管理
- 蓝牙

选择语言

Simple Chinese 确定

状态  
统计  
管理

### 3.3.3 configuration DHCP

VDB2607 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) 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。

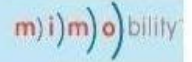
局域网设置	
网络名称	Mediatek
IP 地址	172.16.10.254
子网络遮罩	255.255.255.0
局域网 2	<input checked="" type="radio"/> 启用 <input type="radio"/> 停用
局域网 2 IP 地址	193.169.10.254
局域网 2 子网络遮罩	255.255.255.0
MAC 地址	(null)
DHCP 类型	禁用 <span style="border: 1px solid red; padding: 2px;">v</span> <span style="color: red; font-weight: bold;">2</span>
802.1d Spanning Tree	停用 <span style="border: 1px solid gray; padding: 2px;">v</span>
LLTD	停用 <span style="border: 1px solid gray; padding: 2px;">v</span>
IGMP Proxy	停用 <span style="border: 1px solid gray; padding: 2px;">v</span>
UPNP	停用 <span style="border: 1px solid gray; padding: 2px;">v</span>
Router Advertisement	停用 <span style="border: 1px solid red; padding: 2px;">v</span> <span style="color: red; font-weight: bold;">3</span>

Save 确定 取消 4 5

Here are the steps to set the DHCP server parameters:

(1) Set according to the steps shown in the diagram





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

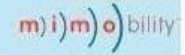
DHCP 类型	服务器
起始 IP 地址	172.16.10.100
结束 IP 地址	172.16.10.110
子网络遮罩	255.255.255.0
惯用 DNS 服务器	168.95.1.1
其他 DNS 服务器	8.8.8.8
预设信关	172.16.10.254
释放时间	86400
静态指定	MAC: <input type="text"/> IP: <input type="text"/>
静态指定	MAC: <input type="text"/> IP: <input type="text"/>
静态指定	MAC: <input type="text"/> IP: <input type="text"/>
802.1d Spanning Tree	停用
LLTD	停用
IGMP Proxy	停用
UPNP	停用
Router Advertisement	停用

Save 确定 取消

### 3.3.4/Bind IP address

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) You can first check the DHCP list of VDB2607 and copy the MAC corresponding to PC.The following is the steps to view the DHCP list:



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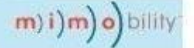
### DHCP 客户端列表

您可以在此检视所有 DHCP 客户端。



DHCP 客户端				
网络名称	MAC 地址	IP 地址	过期	Os device
HONOR_20S-c0b62	44:55:C4:26:CA:37	172.16.10.100	23:56:40	
yang	3C:95:09:67:A1:5D	172.16.10.101	00:00:00	

- (1) Bind THE IP address of PC through the following method. After binding, the PC is connected to VDB2607, and the IP obtained is the binding IP address.



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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: 3C:95:09:67:A1:5D IP: 172.16.10.100
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

### 3.4 Wireless parameter configuration

#### 3.4.1 Modify WIFI hotspot name and set fixed channel

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微能

- 运作模式
- 网络设置
- 无线网络设置
  - 基本设置
  - 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
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)
<b>高吞吐量实体模块</b>	
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

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启用全部 | 关闭全部

微能

- 运作模式
- 网络设置
- 无线网络设置
  - 基本设置
  - 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

基本服务集合标识符	30:EB:1F:07:1B:A2
频率 (频道)	2452MHz (Channel 9)
<b>高吞吐量实体模块</b>	
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
<b>其它</b>	
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

#### 3.4.2 Set hotspot encryption/unencryption

Here is the step-by-step diagram for setting up an open hot spot:

**Wireless Security/Encryption Settings**

Setup the wireless security and encryption to prevent from unauthorized access and monitoring.

Select SSID  
SSID choice: SKYLAB\_28A1E8F9CE

"SKYLAB\_28A1E8F9CE"  
Security Mode: Disable

访问策略  
功能: 停用

新增:

Buttons: Save, Apply, Cancel

Here is the configuration diagram for setting up a password connection:

**Wireless Security/Encryption Settings**

Setup the wireless security and encryption to prevent from unauthorized access and monitoring.

Select SSID  
SSID choice: SKYLAB\_28A1E8F9CE

"SKYLAB\_28A1E8F9CE"  
Security Mode: WPA2-PSK

WPA  
WPA Algorithms:  TKIP  AES  TKIPAES  
Pass Phrase: 12345678  
Key Renewal Interval: 3600 seconds (0 ~ 4194303)

PMF  
MFPC:  Enable  Disable  
MFPR:  Enable  Disable  
MFPSHA256:  Enable  Disable

访问策略  
功能: 停用

新增:

Buttons: Save, Apply, Cancel

#### 4、Server information configuration

The user can configure the server address and port information through the Web interface, which requires VDB2607 to be accessible. In addition, the default Internet access mode of VDB2607 is UDP protocol. In the Web

interface, you can customize the communication protocol, and the optional protocol is TCP/UDP/MQTT.The configuration method is as follows:

### 4.1Configure for TCP protocol communication

The configuration is the communication mode of TCP protocol. The configuration screenshot is as follows

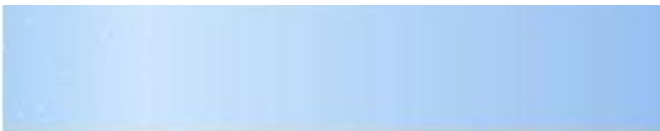


## 4.2It is configured for UDP protocol communication

The configuration is UDP protocol communication. The configuration screenshot is as follows:



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```
selectConfigServer = 0
UDPserverIP = 193.169.10.1
UDPserverPort = 3333
```

### 4.3 Configure for MQTT protocol communication

Reboot System Button | Reboot System

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微能

- 运作模式
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- NAT 设置
- NAS
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  - 管理
  - 上传固件
  - 设置管理
  - 状态
  - 统计资料
- 蓝牙

Server Type: MQTT Server

MQTT Server Init	
Host	106.53.112.242
Port	1883
Pub	mqtt_pub
Pub Qos	1
Sub	mqtt_sub
Sub Qos	1
Keepalive(s)	30
Username	name
Password	

Apply | Cancel

激活 Wir 转到“设置”

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微能

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  - 管理
  - 上传固件
  - 设置管理
  - 状态
  - 统计资料
- 蓝牙

```

selectConfigServer = 2
Mqtt_host = 106.53.112.242
Mqtt_port = 1883
Mqtt_pub = mqtt_pub
Mqtt_pub_qos = 1
Mqtt_sub = mqtt_sub
Mqtt_sub_qos = 1
Mqtt_keepalive = 30
Mqtt_username = name
Mqtt_password =
    
```

激活 V 转到“设置”

## 5、 Set bluetooth information

Users can configure various parameters of Bluetooth through the Web interface, including scanning and filtering parameters, scanning data parameters, gateway Bluetooth broadcasting parameters, and uUids that gateway Bluetooth communicates with APP and device.

### 5.1 Configure Bluetooth filtering information

#### 5.1.1、 Set/unfilter signal strength RSSI value

Set the filtered signal strength RSSI value

Cancel the RSSI value setting of scanning filter signal strength;



### 5.1.2、Set/unscan filter device name

Set the Settings name for the scan

Unset the filter device name

### 5.1.3、Set/Unscan the filtered Beacon UUID

Set the scan filter Beacon UUID

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  - 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	-100 (range [-127,127])

Apply

### Set Filter Device Name

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

Apply

### Set Filter Beacon UUID

Filter Beacon UUID	<input type="radio"/> Disable <input checked="" type="radio"/> Enable <b>2</b>
Beacon UUID	12311122222222222 (string len is 32, match in [a-fA-F0-9])

Apply **4**

Unset the scan filter Beacon UUID

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  - 蓝牙
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    - 扫描设置
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    - 通信设置
    - 基本信息

### Set Filter RSSI

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

Apply

### Set Filter Device Name

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

Apply

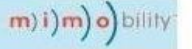
### Set Filter Beacon UUID

Filter Beacon UUID	<input checked="" type="radio"/> Disable <input type="radio"/> Enable <b>2</b>
Beacon UUID	12311122222222222 (string len is 32, match in [a-fA-F0-9])

Apply **3**

#### 5.1.4、Set/unscan filtered CompanyId

Set the CompanyId for scanning and filtering



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  - 蓝牙 **1**
    - 过滤设置 **1**
    - 扫描设置
    - 网关广播
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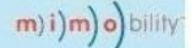
Set Filter RSSI	
Filter RSSI	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
RSSI	<input type="text" value=""/> (range [-127,127])
Apply	

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

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

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

Unset the scan filter CompanyId



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

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

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

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

## 5.2 Configure the Bluetooth scan parameters

### 5.2.1、 Set the scan output switch

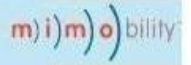
The steps to set the Bluetooth scan output switch are as follows:

### 5.2.2、 Sets whether to start a scan request

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

### 5.2.3、 Set the time interval for the scan output

Set the time interval of scan output to a minimum of 500ms.



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- [-] 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

### Bluetooth Scan Info Settings

Here you can configure Bluetooth scanning.

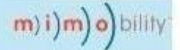
<b>Set Scan Switch</b>	
Scan Switch	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
<input type="button" value="Apply"/>	
<b>Set Scan Request Switch</b>	
Scan Request Switch	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
<input type="button" value="Apply"/>	
<b>Set Scan Interval</b>	
Scan Interval(ms)	<input type="text" value="5000"/> <small>(range in [500,4294967295]ms)</small>
<input type="button" value="Apply"/>	

1  
2  
3

2  
单位为ms

#### 5.2.4. Sets the number of output device information at a time

Set the amount of device information output at a time to a minimum of 1.



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- [-] 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

### Bluetooth Scan Info Settings

Here you can configure Bluetooth scanning.

<b>Set Scan Switch</b>	
Scan Switch	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
<input type="button" value="Apply"/>	
<b>Set Scan Request Switch</b>	
Scan Request Switch	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
<input type="button" value="Apply"/>	
<b>Set Scan Interval</b>	
Scan Interval(ms)	<input type="text" value="5000"/> <small>(range in [500,4294967295]ms)</small>
<input type="button" value="Apply"/>	
<b>Set Scan Device Number</b>	
Scan Device Number	<input type="text" value="10"/> <small>(range in [1,65535])</small>
<input type="button" value="Apply"/>	

1

2

3

此时输出的设备为10

#### 5.2.5. Sets the scan single broadcast universal device mode or the forward work card mode

The default is single broadcast universal device mode, which can be set to transfer card mode according to application needs.

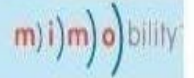
### 5.3 Configure the gateway to broadcast configuration information

#### 5.3.1、 Set the gateway broadcast switch

The default gateway turns on Bluetooth broadcasting, and users can turn off Bluetooth broadcasting according to their needs.

#### 5.3.2、 Set the gateway broadcast name

Sets the name of the Bluetooth broadcast to a maximum length of 20 bytes.



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      - 扫描设置
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      - 通信设置
      - 基本信息

## The Gateway Broadcast Info Settings

Here you can configure the gateway broadcast informatio.

### Set Gateway Broadcast Switch

Gateway Broadcast Switch	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
--------------------------	---

Apply

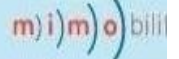
### Set Gateway Broadcast Name

Gateway Broadcast Name	<input type="text" value="skffa"/> 2
<small>(string len is [1,20], match in [0-9a-zA-Z])</small>	

Apply 3

### Set Gateway Broadcast Interval

### 5.3.3. Set the interval between gateway broadcasts



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 Gateway Broadcast Interval

Gateway Broadcast Interval(ms)	<input type="text" value="500"/> 2
<small>(range [20,10000])</small>	

Apply 3

### Set Gateway Broadcast iBeacon UUID

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

Apply

### Set Gateway Broadcast iBeacon Major

Gateway Broadcast iBeacon Major	<input type="text" value="850"/> 2
<small>(range in [0,65535])</small>	

Apply

### 5.3.4 Set the iBeacon UUID for the gateway broadcast

95POWER m) i) m) o) 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 **1**
      - 过滤设置
      - 扫描设置
      - 网关广播 **1**
      - 通信设置
      - 基本信息

**Set Gateway Broadcast Interval**

Gateway Broadcast Interval(ms)	500 <small>(range [20,10000])</small>
<input type="button" value="Apply"/>	

**Set Gateway Broadcast iBeacon UUID**

Gateway Broadcast iBeacon UUID	1234567890ABCDEF1234567890ABCDEF <b>2</b> <small>(string len is 32, match in [a-fA-F0-9])</small>
<input type="button" value="Apply"/> <b>3</b>	

**Set Gateway Broadcast iBeacon Major**

Gateway Broadcast iBeacon Major	850 <small>(range in [0,65535])</small>
<input type="button" value="Apply"/>	

### 5.3.5. Set the iBeacon Major for gateway broadcast

95POWER m) i) m) o) 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 **1**
      - 过滤设置
      - 扫描设置
      - 网关广播 **1**
      - 通信设置
      - 基本信息

**Set Gateway Broadcast iBeacon UUID**

Gateway Broadcast iBeacon UUID	1234567890ABCDEF1234567890ABCDEF <small>(string len is 32, match in [a-fA-F0-9])</small>
<input type="button" value="Apply"/>	

**Set Gateway Broadcast iBeacon Major**

Gateway Broadcast iBeacon Major	0 <b>2</b> <small>(range in [0,65535])</small>
<input type="button" value="Apply"/> <b>3</b>	

**Set Gateway Broadcast iBeacon Minor**

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



### 5.3.6. Set the iBeacon Minor for gateway broadcast

微能 | 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 1
    - 扫描设置
    - 网关广播
    - 通信设置
    - 基本信息

Apply

**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

### 5.3.7. Set iBeacon Measured Power for gateway broadcast

微能 | 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 1
    - 扫描设置
    - 网关广播
    - 通信设置
    - 基本信息

Apply

**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

## 5.4 Configure the parameters associated with communication

### 5.4.1 Configure the UUID that communicates 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 <small>(string len is 32, match in [a-fA-F0-9])</small>
Write UUID	ABCDEF1234567890ABCDEF1234567892 <small>(string len is 32, match in [a-fA-F0-9])</small>
Notify UUID	ABCDEF1234567890ABCDEF1234567891 <small>(string len is 32, match in [a-fA-F0-9])</small>
Apply	

1 通信设置

2 设置与APP通信的服务UUID

设置蓝牙与APP通信的写特征UUID

设置蓝牙与APP通信的通知特征UUID

3 以上三个值不能相互相同

app\_service\_uuid = FED76543211234567890098765432112

app\_write\_uuid = ABCDEF1234567890ABCDEF1234567892

app\_notify\_uuid = FFFDEF1234567890ABCDEF1234567891

Click "Communication Settings" to view the Settings. After the setup is successful, you need to restart the gateway for the configuration to take effect. Here is how to restart the gateway

The screenshot shows the 95POWER web interface. On the left sidebar, under '系统管理' (System Management), the '设置管理' (Settings Management) option is highlighted with a red box and labeled '1'. In the main content area, the 'Reboot System' section has a 'Reboot System' button highlighted with a red box and labeled '2'. Below this, the 'TCP Server Init' section shows 'TCP Server Init IP Setting' as '10.10.10.100' and 'TCP Server Init Port Setting' as '3333'. At the bottom right, there is a note: '激活 Wind 转到“设置”以...' (Activate Wind to go to 'Settings' to...).

### 5.4.2 Configure the UUID that communicates with the device

The screenshot shows the 'Set APP Parameters' and 'Set Device Parameters' sections. In the left sidebar, '通信设置' (Communication Settings) is highlighted with a red box and labeled '1'. The 'Set APP Parameters' table is as follows:

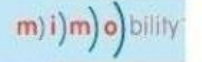
Set APP Parameters	
Service UUID	FED76543211234567890098765432112 <small>(string len is 32, match in [a-fA-F0-9])</small>
Write UUID	ABCDEF1234567890ABCDEF1234567892 <small>(string len is 32, match in [a-fA-F0-9])</small>
Notify UUID	FFFDEF1234567890ABCDEF1234567891 <small>(string len is 32, match in [a-fA-F0-9])</small>

The 'Set Device Parameters' table is as follows:

Set Device Parameters	
Service UUID	6E400001B5A3F393E0A9E50E24DCCA9E <small>(string len is 32, match in [a-fA-F0-9])</small>
Write UUID	6E400002B5A3F393E0A9E50E24DCCA97 <small>(string len is 32, match in [a-fA-F0-9])</small>
Notify UUID	6E400003B5A3F393E0A9E50E24DCCA9E <small>(string len is 32, match in [a-fA-F0-9])</small>

The 'Apply' button at the bottom of the 'Set Device Parameters' section is highlighted with a red box and labeled '3'.

After clicking Apply, the interface will jump to, as shown below:

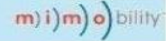


开启全部 | 关闭全部

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



Click "Communication Settings" to return to the corresponding interface to check the Settings. After the setup is successful, you need to restart the gateway for the configuration to take effect, as follows



开启全部 | 关闭全部



<b>汇入设置</b>	
设置档位置	浏览... 未选择文件。
<input type="button" value="汇入"/> <input type="button" value="取消"/>	
<b>装入原厂默认值</b>	
装入默认值按钮	<input type="button" value="装入默认值"/>
<b>Reboot System</b>	
Reboot System Button	<input type="button" value="Reboot System"/>
Server Type:	TCP Server
<b>TCP Server Init</b>	
TCP Server Init IP Setting	10.10.10.100
TCP Server Init Port Setting	3333
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

激活 Wind  
转到“设置”以继续

## 6、 System management configuration

### 6.1 Set up the WEB interface display

VDB2607 web pages support simplified Chinese, traditional Chinese, English display, default for simplified Chinese display. Customers can switch the displayed language according to their needs. The operation steps are as follows:

(1) Select the language to be switched. Take Switching to English as an example. In figure 2, select English.



(1) Check the switching effect



## 6.2 factory data reset; restore factory setting

If you need to restore factory Settings, please follow the steps shown below.

The screenshot shows the 95POWER web interface. On the left is a navigation menu with categories like '微能', '网络设置', '无线网路设置', 'NAT 设置', 'NAS', '系统管理', '管理', '上传韧体', '设置管理', '状态', '统计资料', and '蓝牙'. The '系统管理' folder is expanded, and '设置管理' is highlighted with a red box and a '1' next to it. The main content area shows several sections: '汇出按钮' with an '汇出' button; '汇入设置' with a '浏览...' button and '未选择文件.' text, and '汇入' and '取消' buttons; '装入原厂默认值' with an '装入默认值按钮' and a red box around the '装入默认值' button with a '2' next to it; and 'Reboot System' with a 'Reboot System Button' and a 'Reboot System' button.

### 6.3 Restart the system

Here are the steps to restart the system

The screenshot shows the 95POWER web interface with the '设置管理' folder expanded. The 'Reboot System' section is highlighted with a red box and a '1' next to it. Below it, the 'TCP Server Init' section is shown with a 'Server Type' dropdown set to 'TCP Server'. The 'TCP Server Init IP Setting' is set to '10.10.10.101' and the 'TCP Server Init Port Setting' is set to '3333'. The 'Reboot System' button is highlighted with a red box and a '2' next to it. At the bottom right, there is a note: '激活 W 转到 W 设置'.

## 6.4 upgrade system

WiFi firmware can be upgraded through the Web interface. The upgrade steps are as follows:

- (1) After clicking 2 in the figure below, select the firmware you need to upgrade locally. When you confirm, a prompt of 3 appears and click OK to start the upgrade.



**固件更新**

更新Ralink SoC固件获得新功能。上传更新Flash需要大约1分钟的时间请耐心等待。警告！不正常的Image将中断系统的运作。

位置:

**启动加载程序更新**

位置:

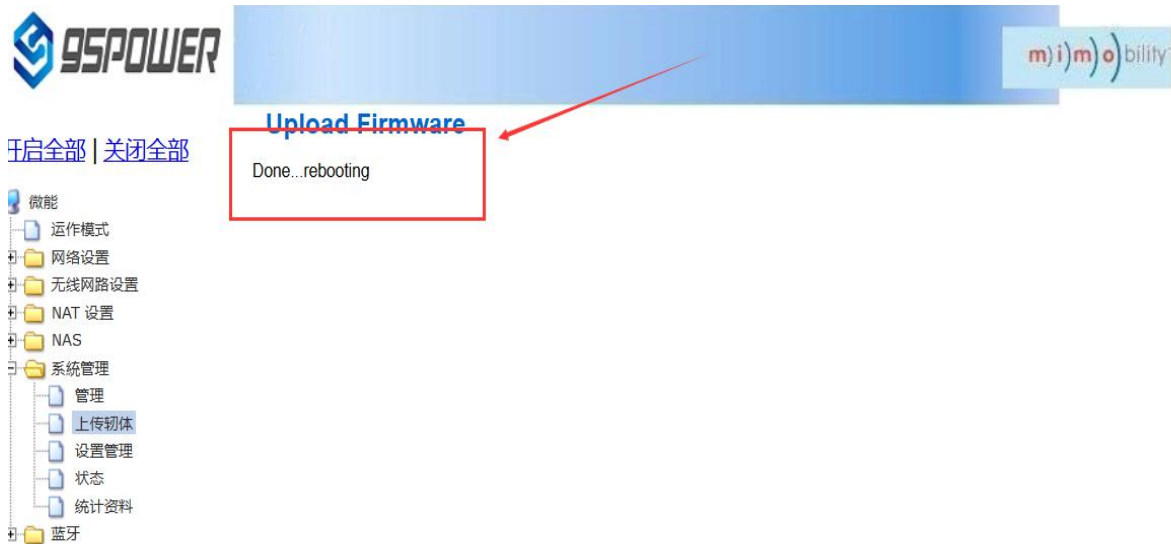
**Update Bluetooth**

Location:

- (1) During the upgrade process, a prompt as shown in the figure below will appear. Do not power off until the prompt disappears. At this point, power off may cause the module to be upgraded to brick



(2) After the successful upgrade, there will be a prompt to restart the system, as shown in the figure below.

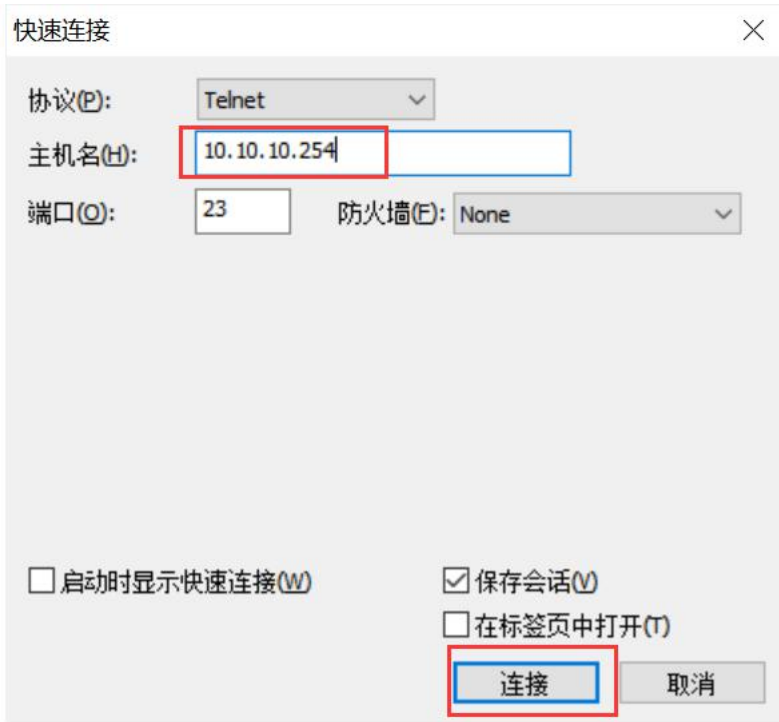


## 6.5 Telnet test management

The following describes the process of configuring Telnet using the SecureCRT tool.

(1) Select Telnet protocol, host name 10.10.10.254, port default 23;





快速连接

协议(P): Telnet

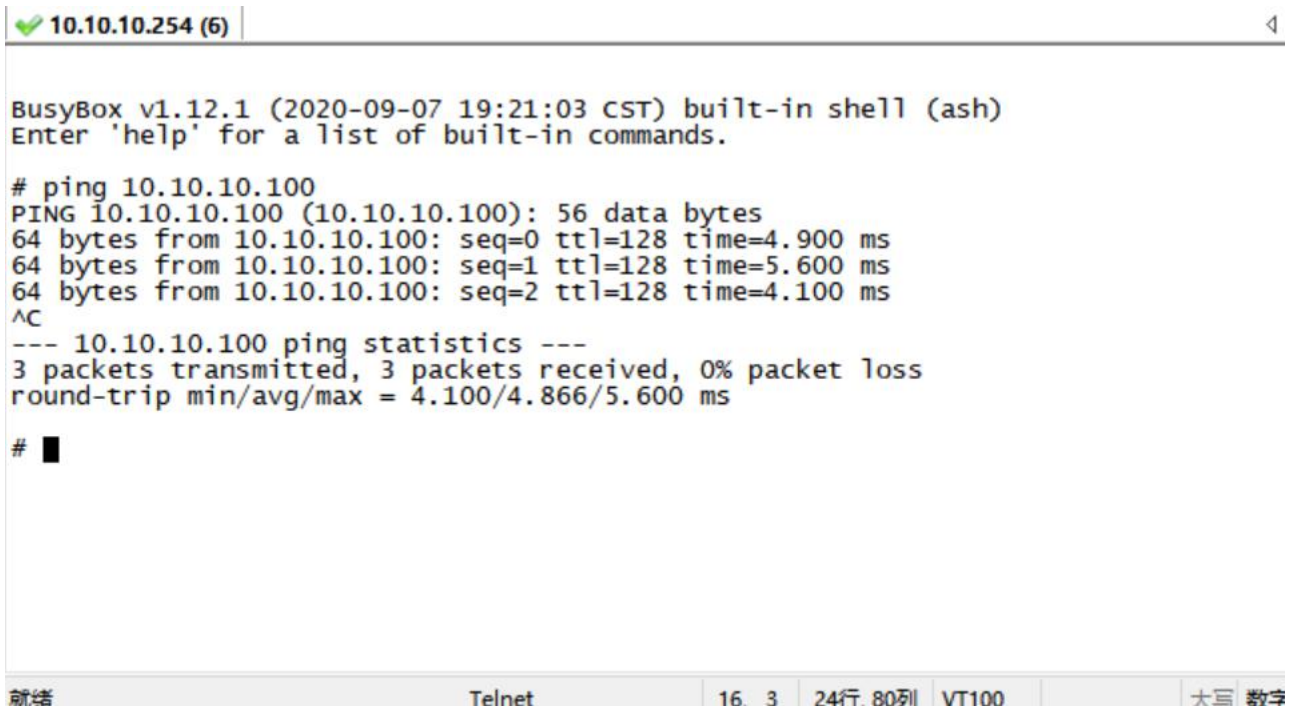
主机名(H): 10.10.10.254

端口(O): 23 防火墙(F): None

启动时显示快速连接(W)  保存会话(V)

在标签页中打开(T)

(1) After entering the administrative terminal, use the command detection



```
10.10.10.254 (6)
BusyBox v1.12.1 (2020-09-07 19:21:03 CST) built-in shell (ash)
Enter 'help' for a list of built-in commands.

# ping 10.10.10.100
PING 10.10.10.100 (10.10.10.100): 56 data bytes
64 bytes from 10.10.10.100: seq=0 ttl=128 time=4.900 ms
64 bytes from 10.10.10.100: seq=1 ttl=128 time=5.600 ms
64 bytes from 10.10.10.100: seq=2 ttl=128 time=4.100 ms
^C
--- 10.10.10.100 ping statistics ---
3 packets transmitted, 3 packets received, 0% packet loss
round-trip min/avg/max = 4.100/4.866/5.600 ms

# █
```

就绪 Telnet 16. 3 24行, 80列 VT100 大三 数字

## 7. Contact Information

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