

# VDU2506 Datasheet

## Document Information

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**Product List**

Item	Model Number	Number	Remark
UWB TWR ranging anchor	VDU2506	1 pcs	
5V2A 5V 2A DC Power Adapter	TBD	1pcs	Optional

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## 1 .Product Induction

VDU2506 is an UWB anchor based on TWR high precision ranging. It can receive tag broadcast package to calculate the distance and send command to tags at the same time, making it easy for bi-direction alert, electrical fence and distance keeping function, etc.

VDU2506 can be perfectly integrated with the indoor environment with white curved shell design. Its unique waterproof structure fits outdoor environment as well.



**Figure 1.1 VDU2506 outlook**

VDU2506 use 2 stage of Power Amplifiers and single stage Low Noise Amplifier to enhance the transmit and receive performance. The coverage of VDU2506 can be more than 500 meters ranging with tags that using 2 stage PA or with another VDU2506. And the static precision is 0.3m in CEP95 condition.

VDU2506 support multiple power supply ways. Power over Ethernet way can reduce construction difficulty; DC 5V 1A power supply and WiFi network can reduce the network wiring cost; Also, the internal PCBA reserves 2-pin-2.54mm-pitch-JST battery connection interface for Li-battery power supply. And it can charge the battery with up to 800mA current, which is convenient to continue working in case of power failure.

VDU2506 supports up to 64GigaByte SD card(or TF card) conforming to the standard of SD-XC (Class 10) protocol, so that offline data storage(like history distance trajectory) can be restored for long time when the network is disconnected.

The application of VDU2506 is wide, both in indoor and outdoor ranging and position. And the TWR way can shift easizily from one dimension ranging to two dimension positioning. It can be used in construction sites, coal yards, mines, tunnels and other places to range and locate personnel and vehicles.

VDU2506 PCBA support UART to USB transferring for debug use. It support TTL to UART 485 transferring for industrial machines. It also support WiFi and Ethernet connection to TCP/IP or UDP server, making it easy to build a TWR positioning system. The PCBA can be directly installed to customer's machine, and support secondary development. We can supply 4.3 inch display screen and its demo software(not free). And we also supply 2 ranging module by overlaying another PCBA on VDU2506 PCBA and its demo software. In this way the stablity can be enhanced or the tag's direction can be determined.

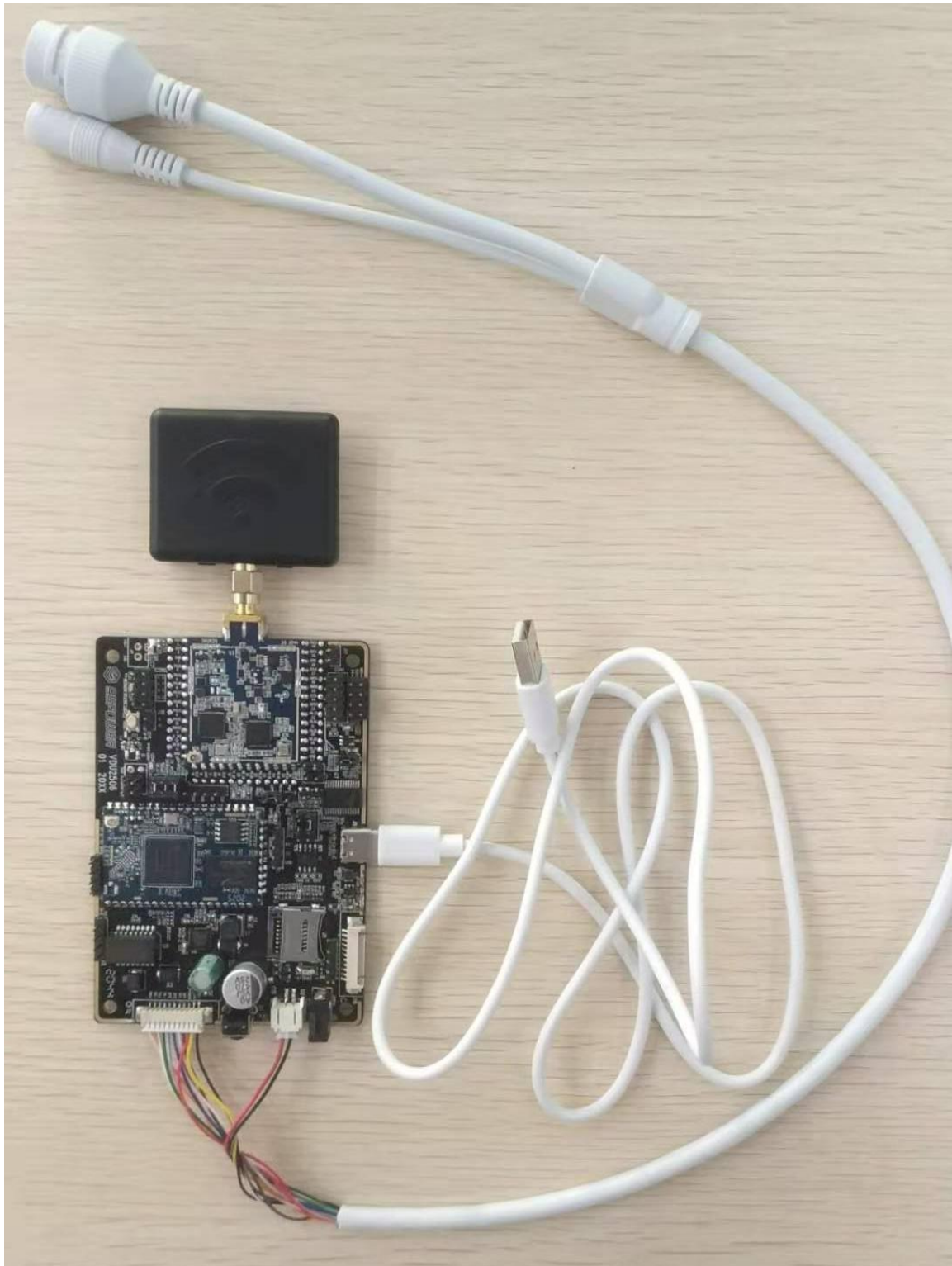


Figure1.2 VDU2506 PCBA

## 2.Basic parameters

<b>Power Supply</b>	
POE	POE 48V
DC Power Adapter	Input: DC 5V 2A
Battery supply	Li+ rechargeable Battery 3.4~4.3V, charge current 800mA
<b>UWB</b>	
Supported protocol	IEEE802.15.4-2011 UWB
Frequence	Default 3.9936GHz(with PA) support all channels ch1-5(Without PA)
Tx POWER	Max 21dBm @CH2(Double PA)
Rx Sensitivity	-105dBm @110Kbps
Data rate	Default 6.8Mbps, support 110Kbps, 850kbps
Data storage	Support data storage without network
<b>WiFi</b>	
Wifi Protocol	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 : 72Mbps @ HT20 150Mbps @ HT40
Rx Sensitivity	HT40 MCS7 : -70dBm@10% PER(MCS7)
	HT20 MCS7 : -73dBm@10% PER(MCS7)
	54M: -77dBm@10% PER
	11M: -89dBm@ 8% PER
Tx Power	IEEE 802.11n: 14dBm @HT40 MCS7 15dBm@HT20 MCS7
	IEEE 802.11g: 15dBm
	IEEE 802.11b: 18dBm
Wireless security	WPA/WPA2, WEP, TKIP, and AES
Workig mode	Bridge、Gateway、AP Client
<b>BLE</b>	
	<b>Default off 30s after power on</b>
Supported Protocol	BLE4.2

	802.15.4
Frequency	2400MHz-2483.5MHz
Tx POWER	-20~+4dBm in 4dB step
Rx Sensitivity	-96dBm
<b>Positioning performance</b>	
Accuracy	<30cm
Anchor distance	Default <200m, <500m if using tags with double PA
Data uploading	100M Ethernet WiFi 2.4G
<b>Environment</b>	
Op. temperature	-20°C~70°C
Storage temperature	-40°C~85°C
<b>Waterproof</b>	IP67
<b>Dimension</b>	178.0mmx94mmx58.0mm±2mm



### 3. Product Dimension

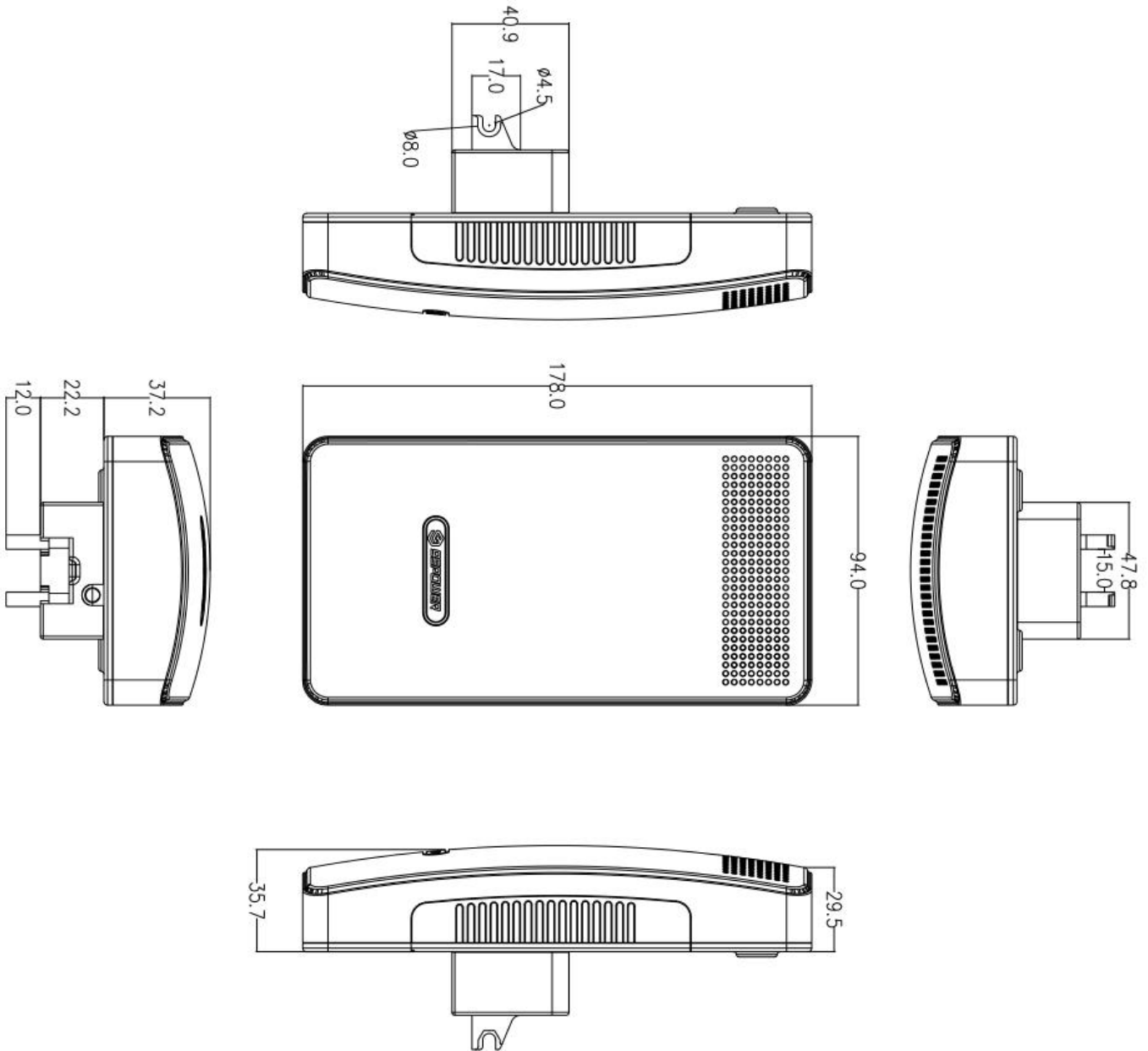


Figure 3.1 Main Body Size (Unit mm)

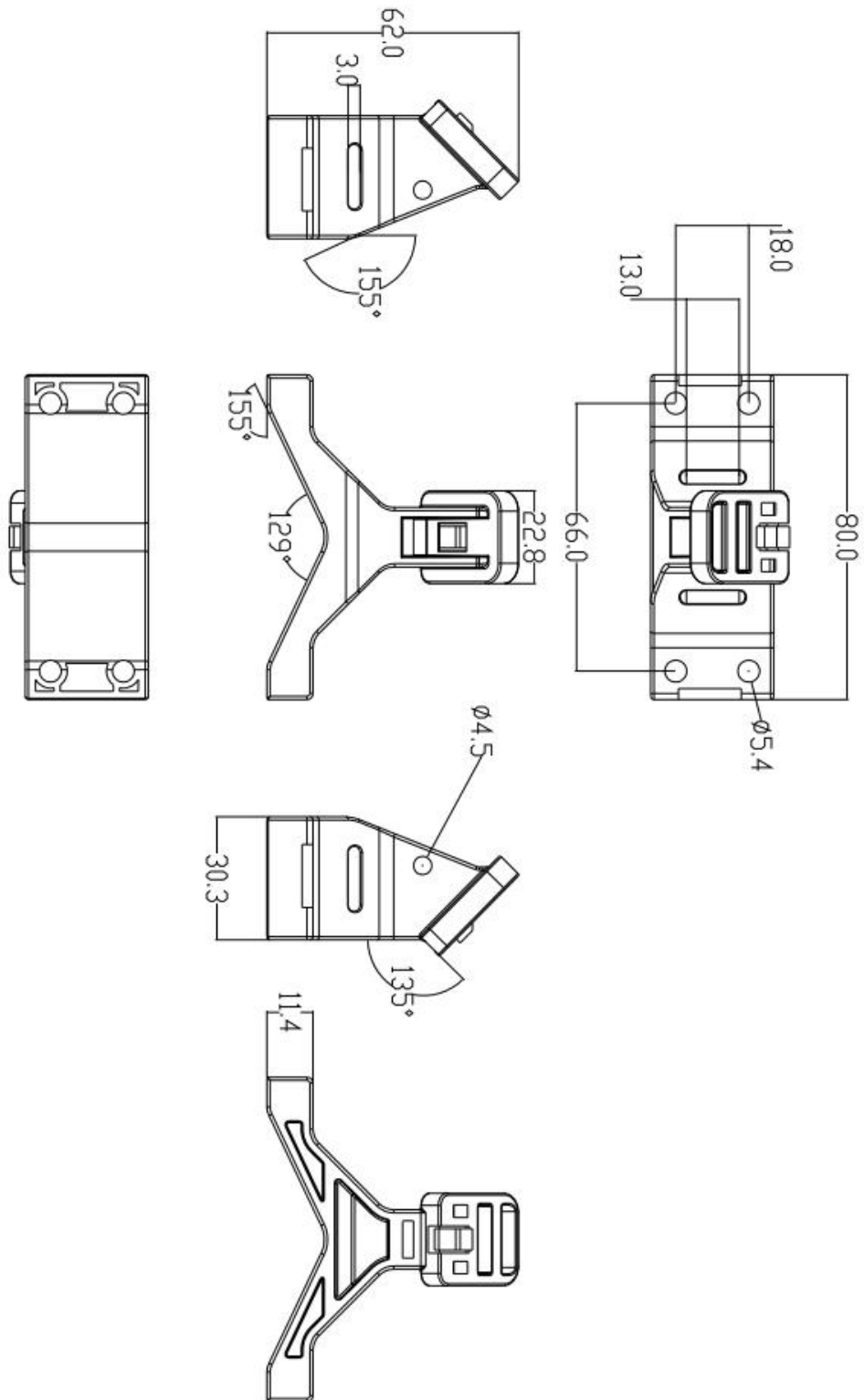


Figure 3.2 Holder Size

## 4. Installation

Anchor needs to be installed more than 2.5m off the ground. And the anchor distance is relevant with tags' and anchors' broadcasting power. Single stage PA with max gain support max 200m distance. Double stage PA with max gain support max 500m distance.

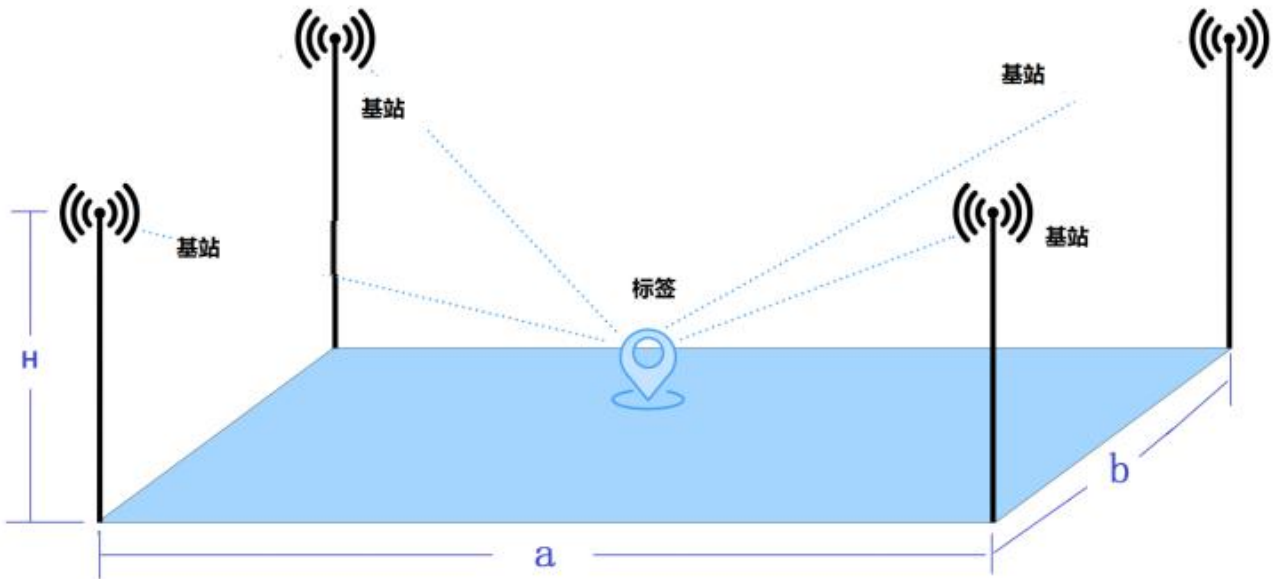


Figure 4.1 Anchor installation location and tag's best position area

**Basic Requirement:**  $1m < a < 200m$  ,  $1m < b < 200m$  ,  $3.5m > H > 2.5$

Note that the anchor should keep more than 15cm away from ceilings or walls

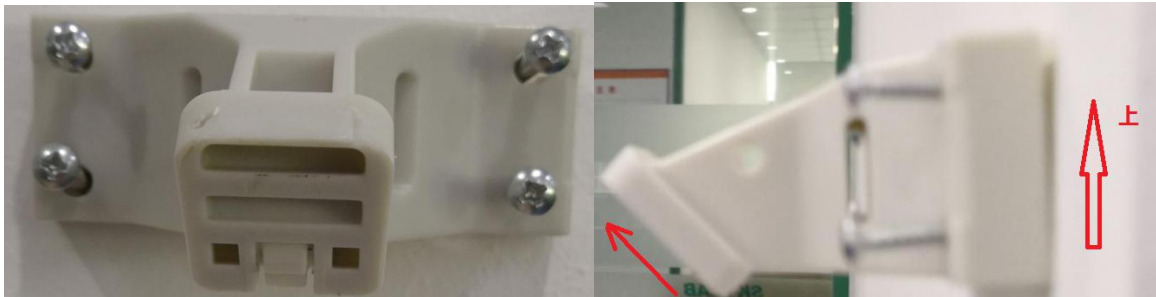
### Install steps:

(1) Using the expansion screws and fix the holder on the wall (You can change the screws depend on the wall material).



Screw pack

Holder



(2) For cylinder install, please thread the hold hoop through the oval groove of the holder as shown in the figure.



(Note:Hoop length depending on the cylinder diameter, and the thickness should be less than 3mm, width should be less than 13mm)

(3) After fixing the holder, put the anchor stuck to the holder from top to bottom



(4) After installing the anchor, plug the DC 5mm power adapter or POE netcable. If the signal LED light as the right figure , the anchor start to work normally.

## 5. Configuration

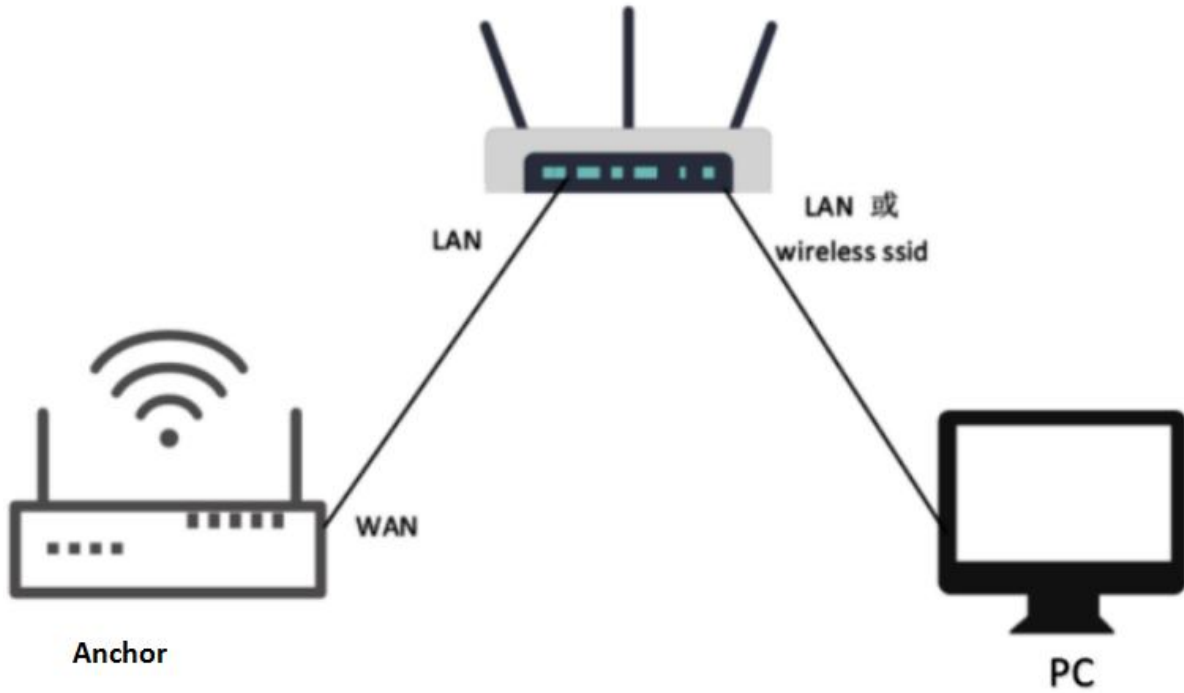
### 5.1 network topology

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

In the Gateway mode of VDU2506, the only network port is WAN, PC and VDU2506 connect the same superior route, access VDU2506.

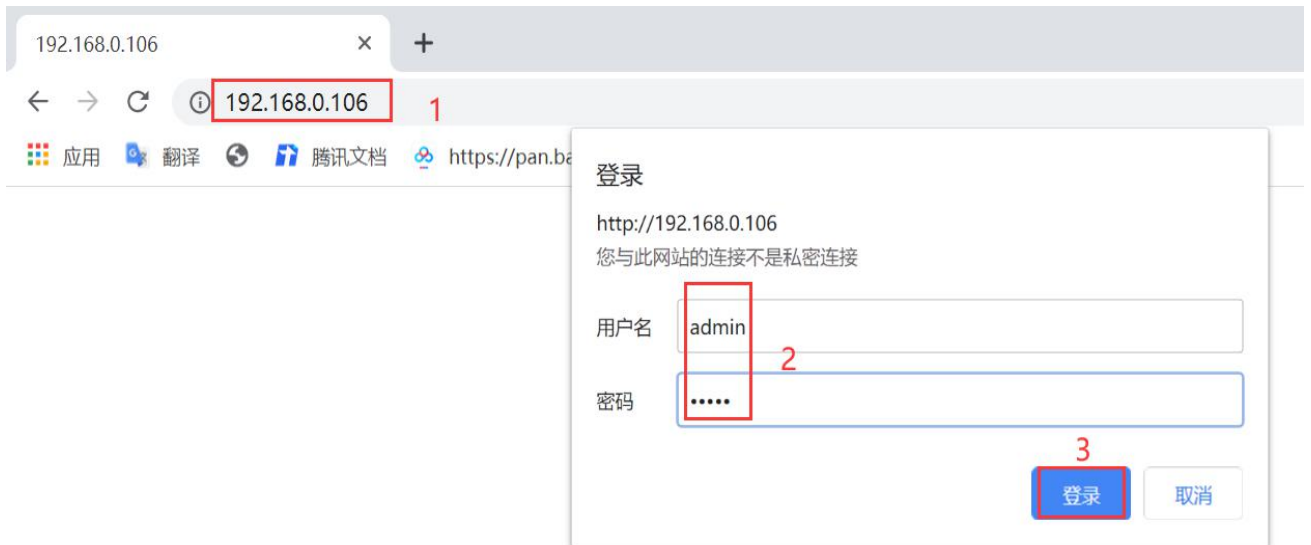
VDU2506 works in AP Client mode, where the PC accesses VDU2506 by net-cable connection directly .

The following figure is the topology of the network connection. The WAN port of VDU2506 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 VDU2506 can be accessed through the browser on the PC.



Access through the superior routing network segment

It is assumed that the IP address assigned to VDU2506 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 VDU2506 can be entered. As shown in the figure below



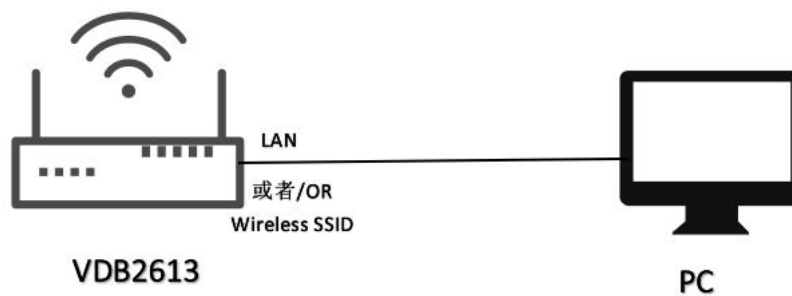
The password of VDU2506 is admin/admin.

### 5.1.2 Connect via LAN

VDU2506 in Gateway mode, the PC accesses the WIFI module through the WIFI hotspot of VDU2506.

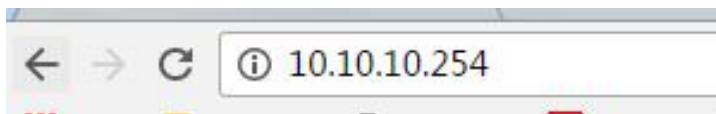
VDU2506 In AP-CLI mode, THE PC can access the WIFI module through the WIFI hotspot of VDU2506 and the unique network port.

After connecting to VDU2506 in the above way, VDU2506 will assign the IP address to the PC. Users can log in to the administration interface of VDU2506 on a PC by accessing the gateway IP. The default IP address network segment is 10.10.10.0/254. Assuming that the user has not modified the IP network segment of VDU2506, then the user can go to the management interface of VDU2506 through the browser on the PC at 10.10.10.254.



Access via VDU2506 LAN

The following is a screenshot of the access on PC:



## 5.2 Wan configuration

### 5.2.1 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





## 5.2.2 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;

**广域网络设置**

您可以依您的环境选择适当的联机模式，并依对不同的联机模式设置参数。

广域网络联机模式: **动态 (自动取得)**

DHCP 模式	
网络名称 (optional)	<input type="text"/>
MAC 复制	
Enabled	<b>停用</b>

Save 确定 取消

(3) Configure superior AP information;

**AP Client Feature**

You could configure AP Client parameters here.

AP Client Parameters	
SSID	SKYLAB91
MAC Address (Optional)	<input type="text"/>
Security Mode	WPA2PSK <b>2</b>
Encryption Type	AES
Pass Phrase	Skylab20026

Save **Apply** 3 Cancel

## 5.3 LAN configuration

### 5.3.1 Change the LAN IP address

The default LAN segment of VDU2506 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

在此空白处点击，下方的 DHCP 参数会自动同步

**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.



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

### 5.3.2 Add LAN segment

Lan2 can be added to LAN segment in VDU2506. Lan2 is not enabled by default.

(1) Follow the steps below to set up LAN2

**局域网设置**

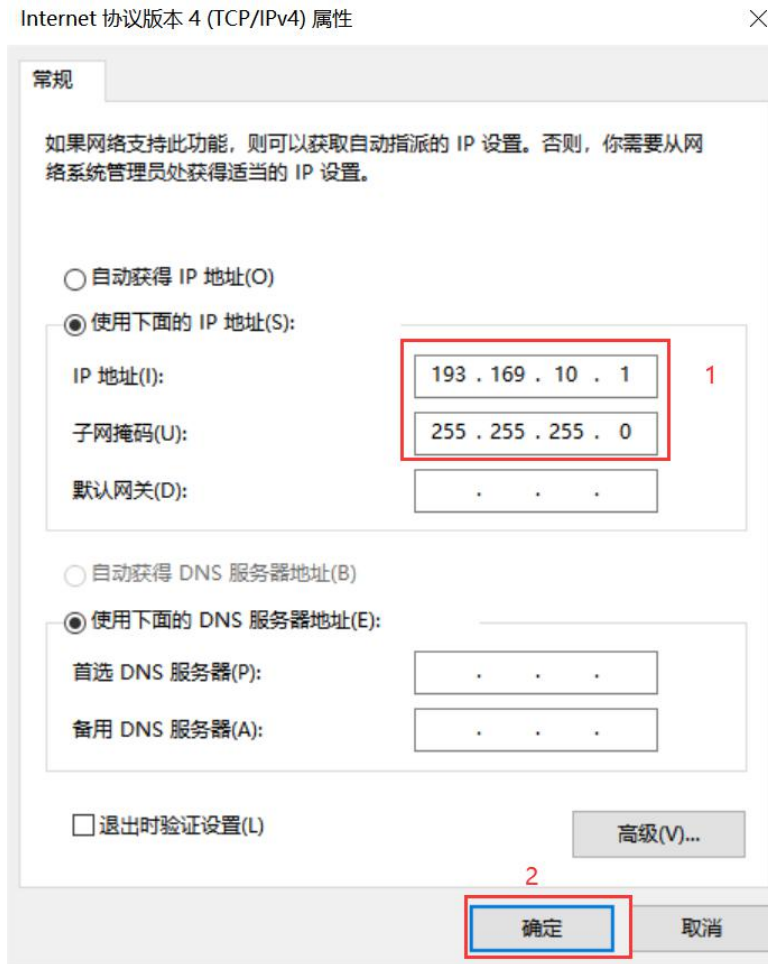
您可以启用/停止以及设置所有的网络功能。

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	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

Save 确定 取消

(3) 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.



### 5.3.3 configuration DHCP

VDU2506 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**

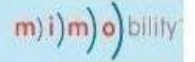
您可以启用/停止以及设置所有的网络功能。

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	停用 <span style="color: red;">2</span>
802.1d Spanning Tree	停用
LLTD	停用
IGMP Proxy	停用
UPNP	停用
Router Advertisement	停用 <span style="color: red;">3</span>

Save 确定 取消

Here are the steps to set the DHCP server parameters:

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



开启全部 | 关闭全部

- 微能
  - 运作模式
  - 网络设置 1
  - 广域网络
  - 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

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
惯用 DNS 服务器	168.95.1.1
其他 DNS 服务器	8.8.8.8 <span style="color: red;">2</span>
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 ▾ <span style="color: red;">3</span>

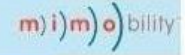
Save 确定 取消

### 5.3.4 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 VDU2506 and copy the MAC corresponding to PC. The following is the steps to view the DHCP list:





开启全部 | 关闭全部

### DHCP 客户端列表

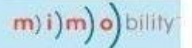
您可以在此检视所有 DHCP 客户端。

功能

- 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

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	

(2) Bind THE IP address of PC through the following method. After binding, the PC is connected to VDU2506, and the IP obtained is the binding IP address.



开启全部 | 关闭全部

功能

- 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

## 5.4 Wireless parameter configuration

### 5.4.1

Modify WIFI hotspot name and set fixed channel

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

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

193.169.10.254/index.shtml

5.4.2 Set hotspot encryption/unencryption

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

**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:

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 设置密码

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:

Save Apply Cancel

## 6、 Server information configuration

The user can configure the server address and port information through the Web interface, which requires VDU2506 to be accessible. In addition, the default Internet access mode of VDU2506 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:

### 6.1 Configure for TCP protocol communication

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



## 6.2 It is configured for UDP protocol communication

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



### 6.3 Configure for MQTT protocol communication

Reboot System Button | Reboot System

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

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"

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

```

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"

## 7. System management configuration

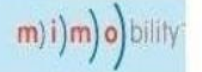
### 7.1 Set up the WEB interface display

VD2613 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



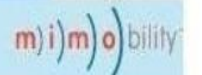
langSelection = en  
 webs: Listening for HTTP requests at address 10.10.10.254

[open all](#) | [close all](#)

- 95POWER
- Operation Mode
- Internet Settings
- Wireless Settings
- NAT Settings
- NAS
- Administration
- Bluetooth

## 7.2 factory data reset; restore factory setting

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



[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 <sup>1</sup>
- 上传固件
- 设置管理**
- 状态
- 统计资料
- 蓝牙

汇出按钮	汇出
<b>汇入设置</b>	
设置档位置	浏览... 未选择文件。
	汇入 取消
<b>装入原厂默认值</b>	
装入默认值按钮	装入默认值 <sup>2</sup>
<b>Reboot System</b>	
Reboot System Button	Reboot System

## 7.3 Restart the system

Here are the steps to restart the system





## 7.4 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.



(2) 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



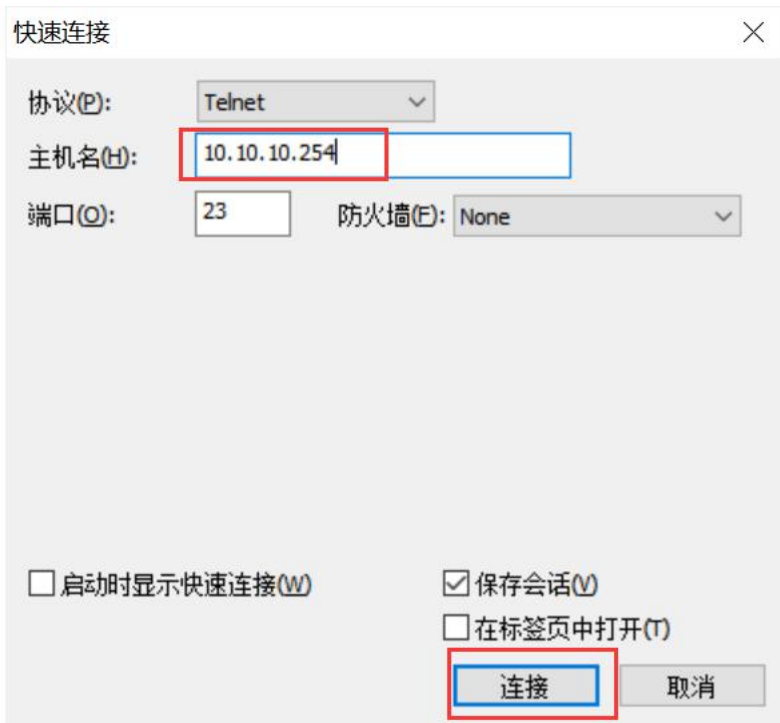
(3) After the successful upgrade, there will be a prompt to restart the system, as shown in the figure below.



## 7.5 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;



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

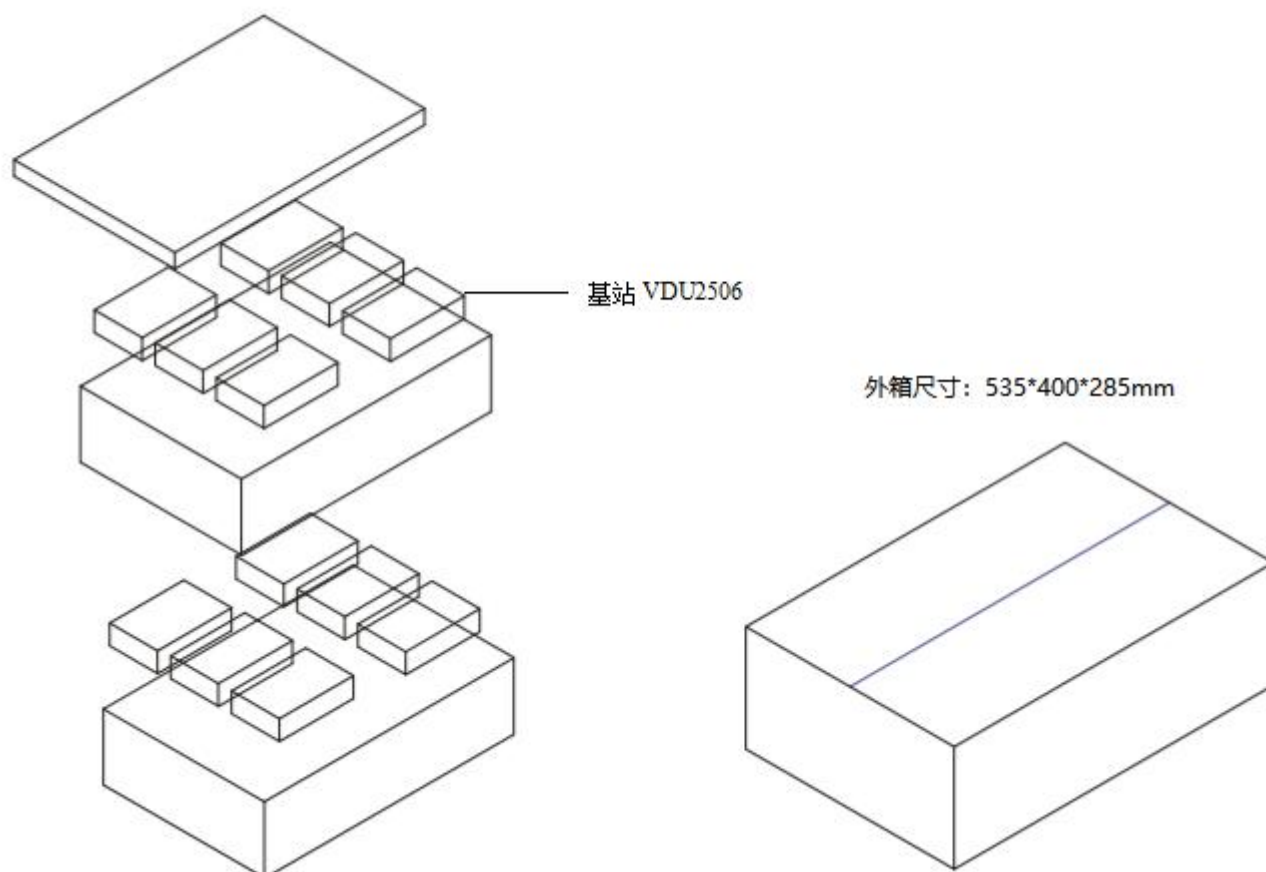
```
10.10.10.254 (6)
BusyBox v1.12.1 (2020-09-07 19:21:03 CST) built-in shell (ash)
Enter 'help' for a list of built-in commands.

# 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

## 8 Package



Accessories	Quantity	Remark
DC power supply	12/box (each base station/1)	Customers do not need to use POE power supply
Mounting screws	12 packs (each base station/1 pack)	Required options
Plastic rack	12 (each base station/1)	Required options

## 9 Reversion History

Version	Remark	Maker	Date
V1.01	Initial Release	Rowen	2020/11/23
V1.02	Update software configuration guide	Sherman	2020.12.10

## 10 Contact information

### 95Power Information Technology Co., Ltd

**Address:** 6 Floor, Building 9, Lijincheng Scientific & Technical Park, Gongye East Road, Longhua District, Shenzhen

**Tel:** 86-755 23779409

**Fax:** 86-755 23779409

**E-mail:** sales@95Power.com.cn

**Website:** www.95Power.com.cn