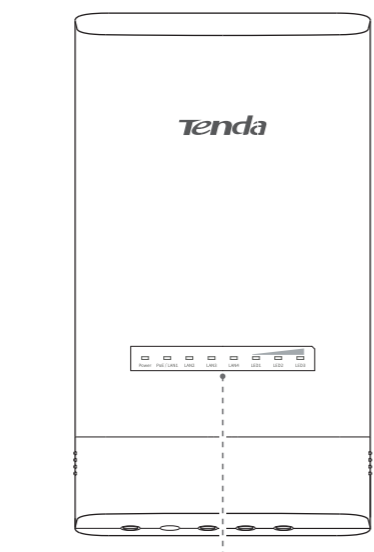


I. Get to know your device

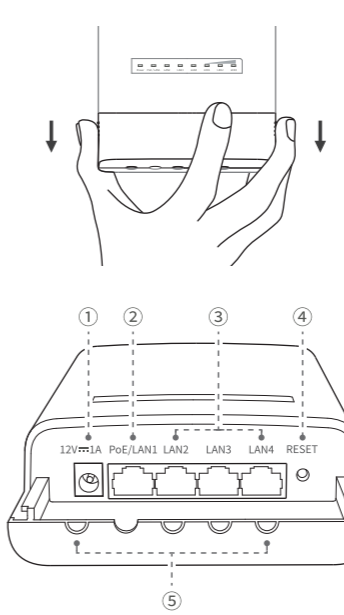
Indicators



Indicator	Status	Description
Power	Solid on	The CPE is powered on properly.
	Off	The CPE is not powered on or not powered on properly.
PoE/LAN1, LAN2, LAN3, LAN4	Solid on	The corresponding port is connected properly, but no data is being transmitted.
	Blinking	Data is being transmitted over the port.
LED1, LED2, LED3 (Signal strength indicator)	Off	The corresponding port is disconnected, or not connected properly.
	Solid on	Bridged successfully. The CPE works in AP Repeater, P2MP or Router mode. • LED1, LED2, LED3 solid on: Strong signal. • LED1 and LED2 solid on, LED3 off: Fair signal. • LED1 solid on, LED2 and LED3 off: Poor signal. Please adjust the direction and place of your CPEs. Tip: By default, the minimum signal strength of LED1, LED2 and LED3 indicators are -90 dBm, -80 dBm and -70 dBm. You can change them on the Wireless > Advanced page of the web UI of the CPE.
LED1, LED2, LED3 (Signal strength indicator)	Off	The received signal strength does not reach the minimum RSSI threshold of the CPE, or the bridging fails. Please adjust the direction and place of the two CPEs.

Ports/buttons

Remove the cover as shown below.



Item	Port/Button	Description
①	12V 1A	Power jack. You can use the included power adapter to power on the device.
②	PoE/LAN1	10/100 Mbps PoE multiplex network port for power input and data transmission. - When the power socket is not available near the CPE, the CPE can be powered on by connecting this port to the PoE injector using an Ethernet cable. - When the CPE is powered on with the power adapter, this port can be used to connect computers, switches and IP cameras.
③	LAN2, LAN3, LAN4	10/100 Mbps auto-negotiation Ethernet port. Used for connecting computers, switches and IP cameras.
④	RESET	Reset button. When the Power indicator lights solid on, hold the button down for about 8 seconds and release it until all indicators light up and then turn off. The CPE is restored to factory settings.
⑤	/	Power cord/Ethernet cable inlet.

Quick Installation Guide

5GHz Long Range Outdoor CPE OS3

Package contents

- CPE x 1
- Plastic strap x 2
- Tool-injector x 1
- Quick installation guide x 1
- Screw x 2
- Expansion brack x 2
- Power adapter x 1

For product or function details, please go to www.tendacn.com.

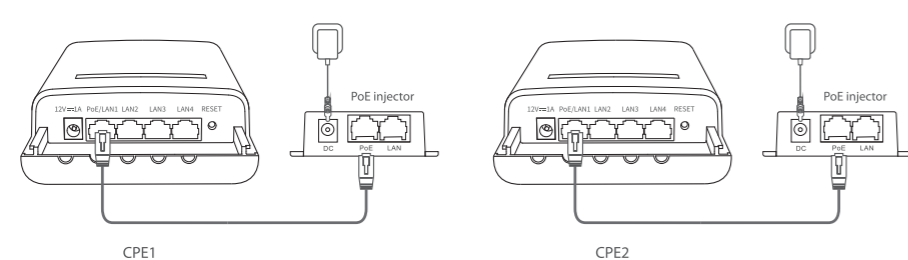
II. Set up the CPE

At least two CPEs are required for bridging.

Option 1: Automatic bridging (recommended)

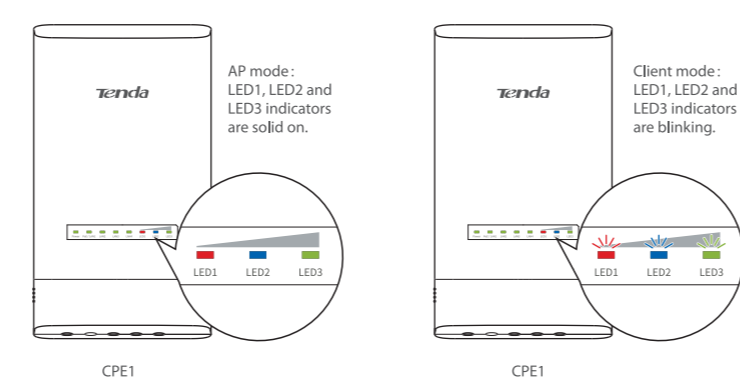
Peer-to-peer bridging

- Place two CPEs in factory settings next to each other, and remove the cover of the CPEs as shown in **Ports/buttons**.
- Use an Ethernet cable (CAT5e or better Ethernet cable is recommended) to connect the **PoE/LAN** port of the CPE to the **PoE** port of the PoE injector.
- Use the included power adapter to connect the PoE injector to a power source. The **Power** indicators of the two CPEs light up.



- Tips:**
- Automatic bridging only works for CPEs in factory settings.
 - Peer-to-peer bridging takes effect within one minute after the CPEs start. Automatic bridging could fail if three or more powered CPEs in factory settings are placed nearby.
 - When the CPEs are powered on using Ethernet cables, CAT5e or better Ethernet cable is recommended, and the length should not exceed 50 meters.
 - This CPE supports 9 ~ 13V DC power supply. You can use the included power adapter, centralized power supply for camera monitoring, or outdoor solar cells to power on the CPE as required.

- The two CPEs bridge to each other automatically within 1 minute. Please wait. After the bridging succeeds, the DHCP servers of the CPEs are disabled automatically. The IP address of the CPE in Client mode will be changed into 192.168.2.2. Successfully bridged CPEs are shown as below.



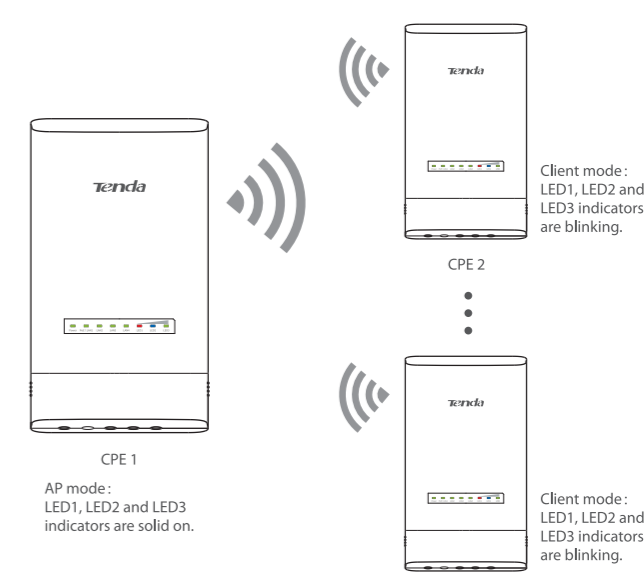
- Tips:**
- The automatic peer-to-multiple peers bridging lasts for 30 minutes. During this period, the CPE working in AP mode must be kept powered on. Otherwise other CPEs will fail to perform automatic bridging.
 - One CPE can be bridged to 15 other CPEs at most.

Peer-to-multiple peers bridging

- Perform Peer-to-peer bridging to bridge any two CPEs.

- Within 30 minutes after peer-to-peer bridging succeeds, place other CPEs in factory settings near the CPE working in AP mode and power them on. When the LED1, LED2 and LED3 indicators of them are blinking, the bridging of all other CPEs succeeds.

After successful peer-to-multiple peers bridging, the DHCP servers of the CPEs are disabled automatically, and the IP address of CPEs in Client mode will be changed into 192.168.2.2. If required, please visit www.tendacn.com to download the CPE management software and install it on your computer to change the IP addresses in batch.

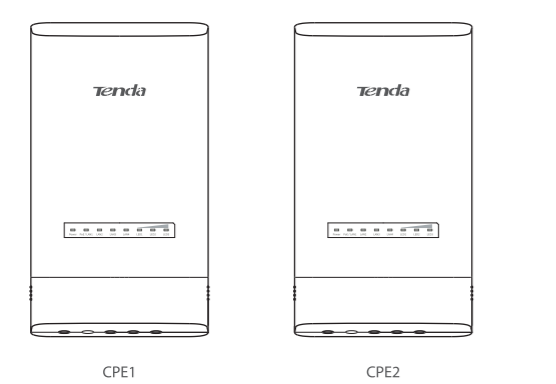


Option 2: Manual bridging

- Place two CPEs next to each other.

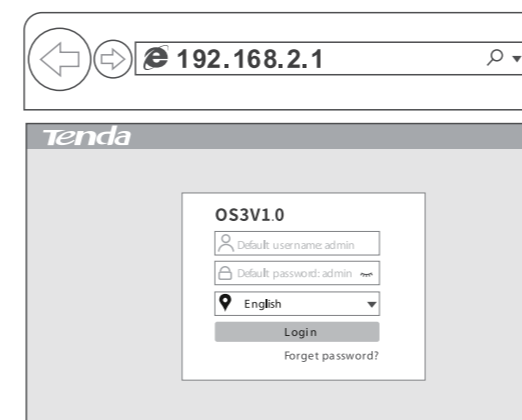
- Connect CPE1 to the computer.

- Remove the cover of CPE1.
- Use an Ethernet cable (CAT5e or better Ethernet cable is recommended) to connect the **PoE/LAN** port of CPE1 and the **PoE** port of the PoE injector.
- Use the power adapter to connect the PoE injector to a power source. The **Power** indicator lights up.
- Use an Ethernet cable to connect the **LAN** port of the PoE injector to your computer. The **PoE/LAN1** indicator of CPE1 lights up. (Under real conditions, you can also connect the **LAN** port of the PoE injector to a switch or a router).

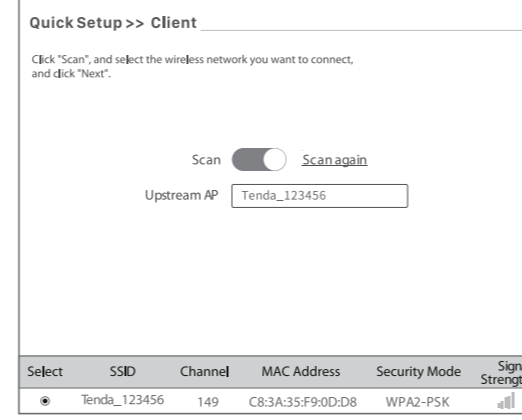


- Set CPE1 to AP mode.

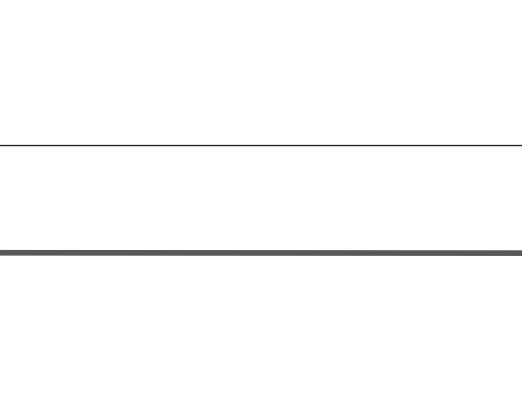
- Start a web browser in the computer and visit 192.168.2.1. Enter the login user name and password and click **Login**.



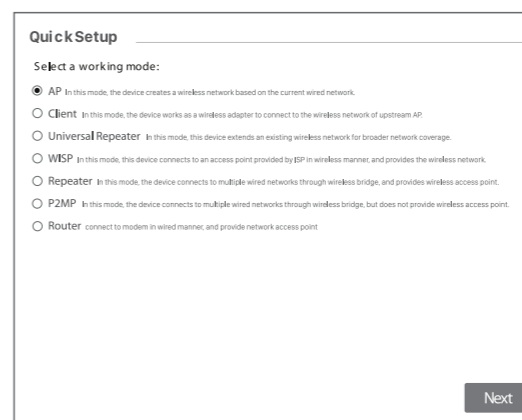
- Select the WiFi network of CPE1, which is Tenda_123456 in this example, and click **Next**.



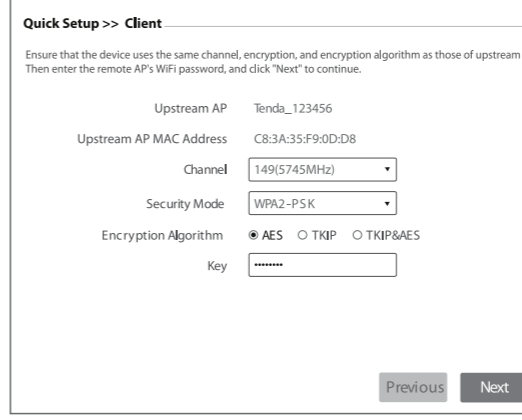
- Enter the WiFi password of CPE1 in the **Key** column.



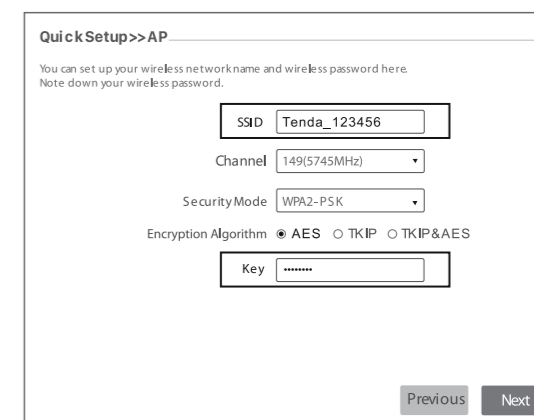
- Select **AP**, and click **Next**.



- Enter the WiFi password of CPE1 in the **Key** column.



- Customize your **SSID** (WiFi name), such as Tenda_123456, and **Key** (such as 12345678). Set **Channel** (such as 149 (5745 MHz)) and **Security Mode** (WPA2-PSK is recommended), and select **Encryption Algorithm** (such as AES). Click **Next**. Remember the **SSID** and **Key** for later setup.



- Click **Save**, and wait until the CPE reboots automatically to activate the settings.

- Set the IP address to an unused IP address belonging to the same network segment as that of CPE1. For example, if the IP address of CPE1 is 192.168.2.1, you can set this device's IP address to 192.168.2.X (X ranges from 2 to 254). Then click **Next**.



- Click **Save**, and wait until the CPE reboots to activate the settings. When the LED1, LED2 and LED3 indicators of CPE1 light solid on, and the LED1, LED2 and LED3 indicators of CPE2 are blinking, the bridging succeeds, and the DHCP servers of the two CPEs are disabled automatically.

If you want to perform peer-to-multiple peers bridging, refer to Step 4: Set CPE2 to Client Mode to set the other CPEs.

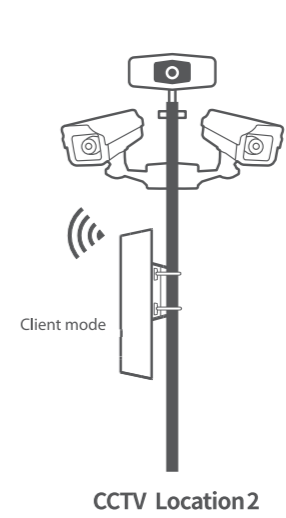
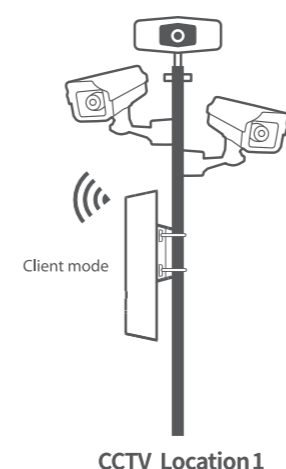
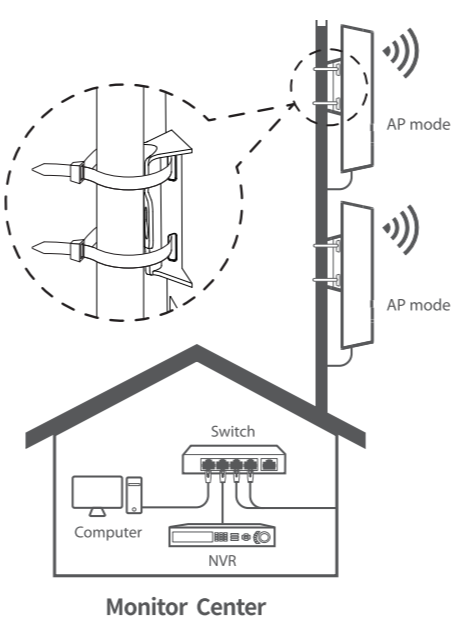
III. Install the CPE

This CPE is usually deployed in schools, communities, factories or streets for surveillance.

- Install the CPEs in an outdoor location without obstacles according to the distance and directions of the CPEs.
- Thread plastic straps through slots on the brackets, adjust the direction and the place of the CPEs and tighten the straps to attach the CPEs firmly to the holding poles.
- Remove the covers and power on the CPEs. The **Power** indicators light up.
- Connect the CPE with the LED1, LED2 and LED3 indicators solid on (AP mode – the transmitting end) to the switch which is connected to a NVR (Network Video Recorder).
- Connect the CPE with the LED1, LED2 and LED3 indicators blinking (Client mode – the receiving end) to IP cameras or a switch which is connected to IP cameras.

With more than two CPEs bridged, the connection reaches its best when the LED1, LED2 and LED3 indicators of the CPEs all light solid on or blink.

The application scenario is shown on the right:



Appendix FAQ

Q1: I cannot log in to the web UI of the CPE by entering 192.168.2.1. What should I do?

- A1: Try the following solutions:
- Ensure that the device is properly connected to a power source and your computer properly.
 - Ensure that the IP address of the computer is set to an unused IP address, such as 192.168.2.X (X ranges from 2-254).
 - Restore the CPE to factory settings.

Q2: How to restore the CPE to factory settings?

- A2: Try the following solutions:
- Method 1:** When the **Power** indicator lights solid on, hold the **RESET** button down for about 8 seconds. When all LED indicators light up then turn off. The CPE is restored to factory settings.
- Method 2:** Log in to the web UI of the CPE, choose **Tools > Maintenance**, and click **Reset to Factory Settings**.
- Tips:** All previous settings will be cleared after the CPE is restored to factory settings, and you need to configure the CPE again.

Q4: The wireless bridging fails. What should I do?

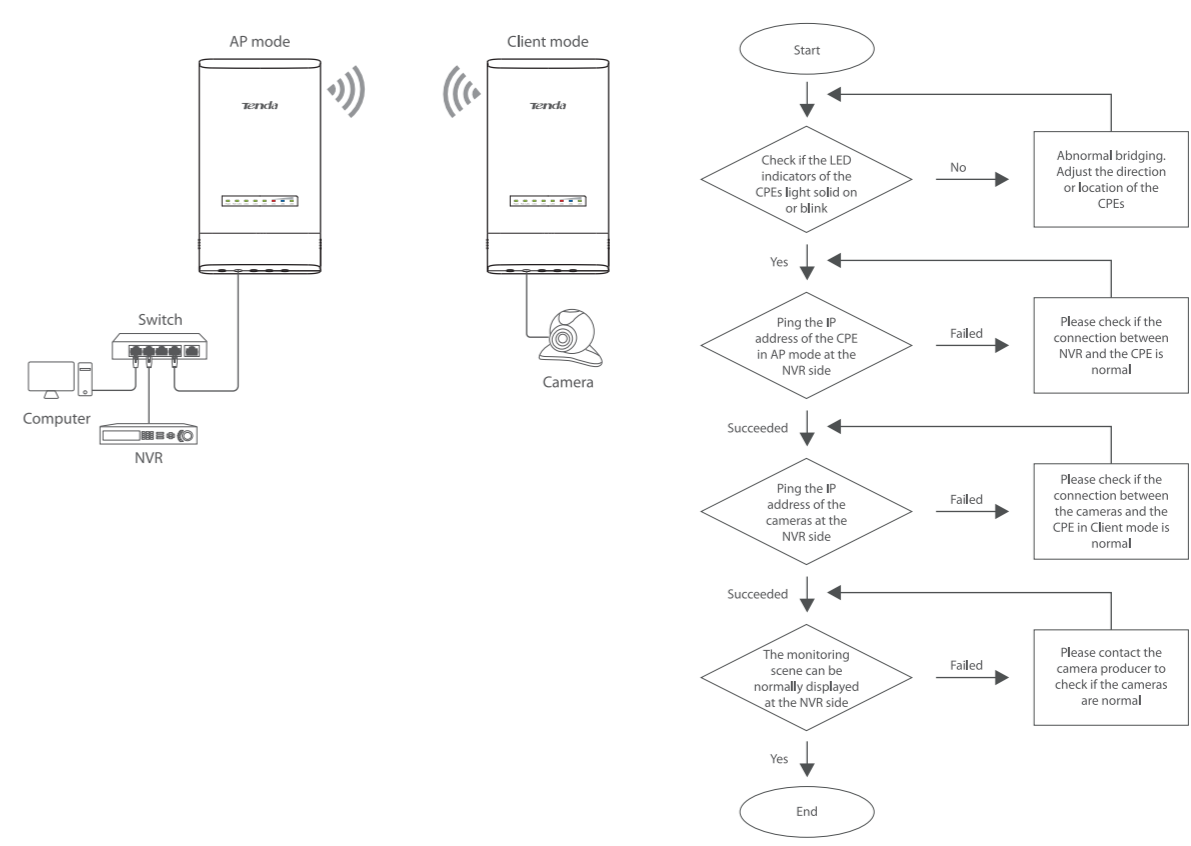
- A4: Try the following solutions:
- When peer-to-peer bridging fails, restore the two CPEs to factory settings and try again.
 - When peer-to-multiple peers bridging fails:
 - If a failure of automatic bridging occurs in any CPE within 30 minutes after peer-to-peer bridging succeeds, please restore the CPE to factory settings and try again.
 - If any CPE fails to complete automatic bridging during 30 minutes after peer-to-peer bridging succeeds, please refer to step 2 in **Option 2** to set the CPE to Client mode and bridge it to the wireless network of the CPE with the LED1, LED2 and LED3 indicators solid on.

Q5: After successful bridging, the LED1, LED2 and LED3 indicators do not light up or only some of them do. What should I do?

- A5: Try the following solutions:
- Ensure that distance between the CPEs is within the normal distance for bridging.
 - Place the CPEs in an elevated location with few obstacles nearby.
 - Make slight direction adjustment of the CPEs by moving it vertically and horizontally. Change the direction with intervals 20-30s each time in order to observe the change of LED1, LED2 and LED3 indicators until the best signal is obtained.

Q6: After successful bridging, there is no display of the scenes monitored by the cameras at the NVR side. What should I do?

- A6: Try the following solutions:
- Ensure that all devices work properly and Ethernet cables are properly connected.
 - Ensure that the computer, NVR and the cameras are at the same network segment, and the configurations of the NVR and the cameras are correct.
 - If the cameras can be scanned but unable to be added at the NVR side, ensure that the **Transparent Bridge** function is enabled and the cameras are already in initialization (active) state.
 - If the cameras cannot be scanned at the NVR side, refer to the following instructions to find a solution.



CE Mark Warning
This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures. This equipment should be installed and operated with minimum distance 20cm between the device and your body.

NOTE: (1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. (2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.

Declaration of Conformity
Hereby, SHENZHEN TENDA TECHNOLOGY CO., LTD. declares that the radio equipment type OS3 complies with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: <https://www.tendacn.com/en/service/download-cata-101.html>
Operating Frequency Range: EU/5:50-5250MHz (CH35-CH48)
ERP Power (Max.): 22.98dBm
Software Version: V1.0.0.10



Caution:
Adapter Model: BR036-A12013E, BR036-A12012B
Input: 100 ~ 240 V AC, 50/60 Hz 0.4 A
Output: 12V DC, 1 A
Manufacturer: SHENZHEN HEWEISHUN NETWORK TECHNOLOGY CO., LTD.
--- DC Voltage



FCC Statement
This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment should be installed and operated with minimum distance 20cm between the device and your body.

Radiation Exposure Statement
This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment should be installed and operated with minimum distance 20cm between the device and your body.

Caution!
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Operating frequency: 5150-5250MHz, 5725-5850MHz

NOTE: (1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. (2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.



RECYCLING
This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. User has the choice to give his product to a competent recycling organization or to the retailer when he buys new electrical or electronic equipment.

Operating Environment
• Temperature: -50°C ~ 60°C
• Humidity: 10% ~ 90% RH, non-condensing

For EU/EFTA, this product can be used in the following countries:

BE	BG	CZ	DK	DE	EE	IE	EL	ES	FR	HR	IT	CY	LV
LT	LU	HU	MT	NL	AT	PL	PT	RO	SI	SK	FI	SE	UK

Technical Support
Shenzhen Tenda Technology Co., Ltd.
6-F Floor, Tower E3, NO.1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China, 518052

USA hotline: 1-800-570-5892
Toll Free: 7 x 24 hours

Canada hotline: 1-888-998-8966
Toll Free: Mon - Fri 9 am - 6 pm PST

Hong Kong hotline: 00852-81931998
Global hotline: +86 755-2765 7180 (China Time Zone)

Website: www.tendacn.com
E-mail: support@tenda.com.cn

Copyright

© 2020 Shenzhen Tenda Technology Co., Ltd. All rights reserved.
Tenda is a registered trademark legally held by Shenzhen Tenda Technology Co., Ltd. Other brand and product names mentioned herein are trademarks or registered trademarks of their respective holders. Specifications are subject to change without notice.