

## Getting to know your device

LED Indicators



act the local reseller or distributor immediately. For product or function letails, please go to www.tendacn.com

### **Pole mounting**

of the antenna.

4. Connect the other side of the RF coaxial cables to the connectors 1. Use a screwdriver to open the metal strap by turning the screw counter-clockwise.

2. Straighten out the end of the metal strap, and thread it through the back of the Base Station, wrap the metal strap around the pole, and tighten the strap by turning the screw clockwise using the screwdriver.

ff Base Station, or the bridging fails. Please adjust the direction or location of the

two bridging devices

Base Station.

should not exceed 60 meters.

Ports & Button

4. Connect one side of two RF coaxial cables (enclosed with the antennas) to the RP-SMA connectors of the Base Station.









## Scenario 1: PtP backhaul connection with dish antennas

One Base Station in **AP** mode and another one in **Client (Station) Step 1**: Place two Base Stations next to each other. mode create a long distance wireless connection for point to point **Step 2**: Connect a computer to a Base Station. connection.

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- 1. Remove the cover of the Base Station.
- 2. Use an Ethernet cable (CAT5e or better Ethernet cable is recommended) to connect the **PoE/LAN** port of the Base Station to the **PoE** port of the PoE adapter.
- 3. Connect the PoE adapter to a power source. The **PoE/LAN** LED indicator of the Base Station lights up.
- 4. Use an Ethernet cable to connect your computer to the LAN por of the PoE adapter.



Step 3: Set the Base Station to AP mode.

1. Start a web browser on the computer, and visit **192.168.2.1**. Enter your user name and password, and click Login.

# 🗇 🕖 192.168.2.1 enda B6V1.0 English Login Forget password?

2. Select AP, and click Next.

Select a w	vorking mode:
AP In this m	ode, the device creates a wireless network based on the current wired network.
🔿 Client (St	ation) In this mode, the device works as a wireless adapter to connect to the wireless network of upstream AP.
) Universal	Repeater In this mode, this device extends an existing wireless network for broader network coverage.
O WISP In thi	is mode, this device connects to an access point provided by ISP in wireless manner, and provides the wireless network.
⊃ Repeater	In this mode, the device connects to multiple wired networks through wireless bridge, and provides wireless access point
D P2MP In t	his mode, the device connects to multiple wired networks through wireless bridge, but does not provide wireless access p
) Router 🗠	nnect to modern in wired manner, and provide network access point

If the login page does not appear, please refer to **Q1** in **FAQ**.

Base Station + Dish Antenna Base Station + Dish Antenna

## Installing the device

the panel of the Base Station with the four slots on the bracket.

### Installation notes

The Base Station can work with the dish, sector or other antenna (purchased separately).

### Bracket mounting



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and slide the Base Station to fix it onto the bracket.

CAT5e or better Ethernet cable is recommended, and the length



- 1. Press the handle on the mount bracket, align the four hooks on 2. Remove the plastic screw caps on the RP-SMA connectors of the Base Station.
  - 3. Connect one side of two RF coaxial cables (enclosed with the antennas) to the RP-SMA connectors of the Base Station.



- 3. Remove the plastic screw caps on the RP-SMA connectors of the 5. Connect the other side of the RF coaxial cables to the connectors of the antenna.



Lightning and ESD protection

Connect the GND terminal of the Base Station to a grounding terminal conencted the earth or building to protect the Base Station from overvoltage and overcurrent caused by lightning and ESD.

- 1. Connect one side of a grounding cord to the included aroundina screw.
- 2. Conenct the grounding screw to the GND terminal of the Base Station, and tighten it.
- 3. Connect the other side of the grounding cord to the grounding terminal connected to the earth or building.



Step 4: Set the other Base Station to Client (Station) mode.

- 1. Perform Step 2 Connect a computer to the Base Station to connec the computer to the other Base Station.
- 2. Start a web browser on the computer, and visit 192.168.2.1.
- Enter the login user name and password, and click **Login**.



Quick Setup >> AP Note down your wireless password. SSID Tenda\_123456 Channel 157(5185MHz) Security Mode WPA2-PSK Encryption Type ● AES ○ TKIP ○ TKIP&AES Кеу .....

Previous Next

3. Set an SSID, which is Tenda\_123456 in this example, Security

Mode (WPA2-PSK is recommended), Channel, and Key, and

click Next.

Next

4. Click Save, and wait until the Bastion Station reboots automatically to activate the settings.

Quick Setup
Select a working mode:
O AP In this mode, the device creates a wireless network based on the current wired network.
Client (Station) In this mode, the device works as a wireless adapter to connect to the wireless network of upstream AP.
O Universal Repeater In this mode, this device extends an existing wireless network for broader network coverage.
O WISP In this mode, this device connects to an access point provided by ISP in wireless manner, and provides the wireless network.
O Repeater In this mode, the device connects to multiple wired networks through wireless bridge, and provides wireless access point.
O P2MP In this mode, the device connects to multiple wired networks through wireless bridge, but does not provide wireless access po
O Router connect to modern in wired manner, and provide network access point

3. Select Client (Station), and click Next.

## Scenario 1: P2MP connection with sector antennas

CPE are in factory settings.

peer-to-peer bridging may fail.

length should not exceed 60 meters.

Otherwise, the bridging may fail. • A Base Station can bridge to 20 CPEs at most.

The Base Station in AP mode can provide WiFi network, allowing home users or small office users to connect to the WiFi network with outdoor long range CPEs. The Base Station can work with Tenda O2 or O4. O4 is used for illustration here.



# FAQ

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

- A1: Try the following methods:
- Ensure that the Base Station has been connected to the power supply and the computer properly.
- Ensure that the IP address of the login computer is 192.168.2.X (X ranges from 2 to 254, which is not used by other devices).
- Restore the Base Station to factory settings.

#### Q2: How to reset the Base Station to factory settings? A2: Note: Resetting the Base Station clears all settings, and you need to configure it again.

- Method One: 1 minute after the Power LED indicator lights up, remove the cover of the Base Station, and hold down the **Reset** button
  - for about 8 seconds. When all LED indicators light up once, the Base Station is restored to factory settings.
- Method Two: Log in to the web UI of the Base Station, choose Tools > Maintenance, and click the Reset button.

### Q3: How to determine whether the bridging signal strength is optimal when the Base Station is used for bridging?

- 3: **Option One**: Observe the signal strength LED indicators of the Base Station. The bridging signal is optimum when all of the LED1, LED2 and LED3 indicators are solid on or blinking.
- Option Two: Log in to the web UI of the Base Station, choose Status, and check the Wireless Status on the following page:

If the login page doesn't appear, please refer to Q1 in FAQ.

- 4. Select the SSID you set on the first Base Station, which is Tenda\_123456 in this example, and click Next.
- Quick Setup >> Client Click "Scan", and select th and click "Next". Scan Scan Again Upstream AP Tenda\_123456 SSID Channel MAC Address Security Mode Signal Tenda\_123456 157 C8:3A:35:14:48:62 WPA2-PSK,AES

encryption, and encryption algorithm as those of upstream AP. I click "Next" to continue.
Tenda_123456
C8:3A:35:14:4B:62
157(5785MHz) •
WPA2-PSK •
● AES ○ TKIP ○ TKIP&AES

Previous Next

text box, and click Next.

5. Enter the WiFi password you set on the first Base Station in the Key 6. Set the IP address to an unused IP address belonging to the same network segment as that of the first Base Station. For example, if the IP address of the first Base Station is 192.168.2.1, you can set the IP address of this Base Station to 192.168.2.X (X ranges from 2 to 254). Then click **Next**.

the settings.



Next

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	Internet Café	

### Option 1: Automatic bridging (recommend) Step 1: Prepare a Base Station and 20 CPEs (O4), and put all O4

• Automatic bridging is only applicable when the Base Station and

• Ensure that only the Base Station and one CPE are powered on

When the Base Station and CPE are powered on using Ethernet

cables, CAT5e or better Ethernet cable is recommended, and the

bridging first, and then power on the rest CPEs within 3 minutes.

when performing peer-to-peer bridging. Otherwise, the

• For peer-to-multiple peers bridging, perform peer-to-peer

- near the Base Station. Step2: Choose one O4 to perform peer to peer bridging with
- the Base Station.
- 1. Place the Base Station and the O4 next to each other.



cables (CAT5e or better Ethernet cable is recommended) to connect their **PoE/LAN** ports to the **PoE** ports of the included PoE Base Station and O4 are disabled. O4 works in **Client** mode and adapters respectively.

2. Remove the covers of the Base Station and O4, and use Ethernet Within 1 minute, the Base station and O4 will perform automatic bridging. When the bridging succeeds, the DHCP servers of the its IP address is changed to 192.168.2.2.

3. Use the power cords to connect the PoE adapters to power sources. When **PoE/LAN** LED indicators of the Base Station and O4 light up, they completes startup.



Base Station: AP Mode LED1, LED2 and LED3 are solid on

power on the rest O4.



### FCC Statement

This equipment has been tested and found to comply with the limits for a Class digital device, pursuant to Part 15 of the FCC Rules. These limits are designed t provide reasonable protection against harmful interference in a residential llation. This equipment generates, uses and can radiate radio frequ and, if not installed and used in accordance with the instructions, may cause harm ce to radio communications. However, there is no guarantee tha nterference will not occur in a particular installation. If this equipment does caus armful interference to radio or television reception, which can be determined b urning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: - Reorient or relocate the receiving antenna. Increase the separation between the equipment and received Connect the equipment into an outlet on a circuit different f

- receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help Operation is subject to the following two conditions: (1) this device may not cause narmful interference, and (2) this device must accept any interference ncluding interference that may cause undesired operation. Radiation Exposure Statement This device complies with FCC radiatio environment and it also complies with Part 15 of the FCC RF Rules. nis equipment should be installed and operated with minimum distance 20cm between the device and your body.
- antenna or transmitter. Operating frequency: 5150-5250MHz, 5725-5850MHz
- nterference, it is recommended to use a shielded RJ45 cable.



Stronger signal strength (-60 is better than -70) and less background noise (-100 is better than -90) lead to better bridging signal.

- If the peer-to-peer bridging fails, reset the Base Station and O4 to factory
- If the peer-to-multiple bridging fails, ensure that the new added O4 is powered on within 3 minutes after the peer-to-peer bridging succeed If the problem persists, reset the Base Station and all O4, and try again

### Q5: When the bridging succeeds, the LED1, LED2, and LED3 indicators do not light up or only one or two of them light up. What should I do?

- A5: Try the following solutions: Place the Base Station and O4 in an elevated location with few obstacles
- Adjust the Base Station in horizontal and vertical directions slowly Wait for 20 to 30 seconds after you choose a direction. Observe the LED1. LED2 and LED3 indicators of the Base Station when you are adjusting the
- CPE until all of LED1, LED2 and LED3 indicators lights up.



### A4: Try the following solutions:

### Q4: The automatic bridging fails. What should I do? settings, and try again.

7. Click **Save**, and wait until the Base Stations reboot to activate

When LED1, LED2, and LED3 of the Base Station in AP mode are solid on, and LED1, LED2, and LED3 of the base Station in Client (Station) mode are blinking, the bridging succeeds. The DHCP servers of the two Base Stations are disabled automatically.





- O4: Client Mode LED1, LED2 and LED3 are blinkin
- Step3: Within 3 minutes after the peer-to-peer bridging succeeds,
- Step4: Wait for about 1 minute. When the LED1, LED2, and LED3 of these O4 are blinking, the bridging succeeds.

After the bridging succeeds, all O4 work in **Client** mode, and their IP addresses are changed to 192,168,2,2.



Base Station: AP mode FD1 | FD2 and | FD3 are solid on

### **Option 2: Setting up the Base Station and** O4 using the web UI

Refer to the configuration procedure in Scenario 1: Point to point connection with dish antennas to set the Base Station to the AP mode, and set all O4 to Client (Station) mode.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment This transmitter must not be co-located or operating in conjunction with any other

**NOTE:** (1) The manufacturer is not responsible for any radio or TV interference caused

#### **Technical Support**

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