# Quick Installation Guide

300Mbps Wireless N Access Point

AP4/AP5

This guide takes AP4 for illustrations unless otherwise specified.

## Package contents

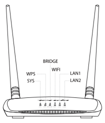
- Wireless AP * 1
- PoE injector * 1
- Screw * 2
- Quick installation guide * 1
- Power adapter * 1
- Ethernet cable * 1
- Expansion blot * 2

If any item is missing or damaged, please keep the original package and contact the local reseller or distributor immediately. For product or function details, please go to http://www.tendacn.com

## Getting to know the device

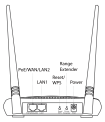
* The appearance of AP4 and AP5 is the similar except antennas.

### LED indicators



| LED indicator | Status | Description |
|---|---|---|
| SYS | Off | The device is not powered on, or malfunction occurs. |
| | Blinking | The device is working properly. |
| WPS | Off | The WPS feature is disabled, or the WPS negotiation is completed. |
| | Blinking | The device is negotiating with the upstream router or a wireless client. |
| BRIDGE | Off | The device is not bridged to a wireless network. |
| | Solid on | The device is bridged to a wireless network successfully. |
| WIFI | Off | The WiFi feature is disabled. |
| | Solid on | The WiFi feature is enabled. |
| | Blinking | Data is being transmitted wirelessly. |
| LAN1/LAN2 | Off | The corresponding port is not connected or not connected properly. |
| | Solid on | The corresponding port is connected properly. |
| | Blinking | Data is being transmitted over the corresponding port. |

### Ports & buttons



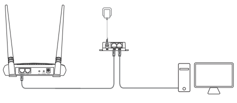
| Port/Button | Description |
|---|---|
| PoE/WAN/LAN2 | • PoE port. Use an Ethernet cable to connect this port to the PoE port of the included PoE injector for power supply.<br>• LAN port. Connect this port to a wired device, such as a computer, a switch, and so on.<br>• WAN port. When the device works in Router mode, connect this port to a modem/modem router for internet access. |
| LAN1 | LAN port. Connect this port to a wired device, such as a computer, a switch, and so on. |
| Reset/WPS | • Reset button: Hold down this button for about **7** seconds then release it to restore factory settings. When all LED indictors light up, the device is reset successfully.<br>• WPS button: When the device works in AP or Router mode, press this button then release it to perform WPS negotiation. Within 2 minutes, enable the WPS feature of a wireless device to establish a connection. |
| Range Extender | Hold down this button for about **3** seconds, and release it. The **WPS** LED indicator blinks. When the **BRIDGE** LED indicator lights up, the device bridges to a router successfully. |
| Power | Power jack. Use the included power adapter to connect this jack to a power source. |

### Power supply

You can power on the AP either using a PoE injector or a power adapter. Choose your power supply solution as required.

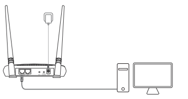
### Power on the device with the PoE injector

- If the deployment location of the AP is far away from the power source, power it on with the included PoE injector. The maximum length of Ethernet cable (CAT5e or better) for power supply is **30** meters for AP4, and **60** meters for AP5.



### Power on the device with the power adapter

- If there is a power source near the deployment location of the AP, use the included power adapter to connect the **Power** port to the power source.



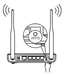
## Universal Repeater mode

If you want to extend your existing WiFi coverage, choose this mode.

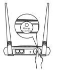
**Option 1: Extending the WiFi coverage using the Range Extender button**

Tips: To use this method, the AP must work with a WPS-enabled router.
After the bridging succeeds, the AP works in Universal Repeater mode.

1. Place the AP near your existing router, power it on and wait until its **SYS** LED indicator blinks.
2. Press the WPS button on your existing router.



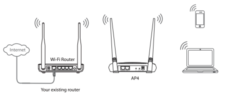
3. Within 2 minutes, press the **Range Extender** button on the AP for about 3 seconds, then release it. Its **WPS** LED indicator blinks.



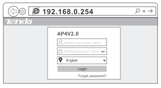
When the **BRIDGE** LED indicator of the AP is solid on, it bridges to your router successfully.

4. Relocate the AP to a place where you plan to broaden WiFi coverage.

**Option 2: Extending the WiFi coverage using the web UI**



1. Place the AP near your existing router, power it on and wait until its **SYS** LED indicator blinks.
2. Connect your computer to a port or the WiFi network of the AP.
3. Start a web browser on the computer connected to the AP, and visit **192.168.0.254**.
4. Enter the default user name and password (**admin** for both), and click **Login**.



192.168.0.254

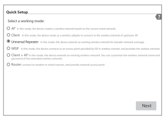
AP4V2.0

Default user name: admin

Default password: admin

English

5. Select **Universal Repeater** mode and click **Next**.

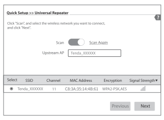


Quick Setup

Select a working mode:

- ○ AP In this mode, the device creates a wireless network based on the current wired network.
- ○ Client 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.
- ○ WISP In this mode, this device connects to an access point provided by ISP in wireless manner, and provides the wireless network.
- ○ Client + AP In this mode, the device extends an existing wireless network. You can customize the wireless network name and password of the extended wireless network.
- ○ Router connect to modem in wired manner, and provide network access point

6. Select the SSID (WiFi name) of your existing router from the list and click **Next**.



Quick Setup >> Universal Repeater

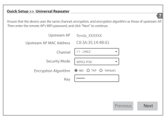
Click "Scan", and select the wireless network you want to connect, and click "Next".

Scan Scan Again

Upstream AP Tenda_XXXXXX

| Select | SSID | Channel | MAC Address | Encryption | Signal Strength▾ |
|---|---|---|---|---|---|
| ● | Tenda_XXXXXX | 11 | C8:3A:35:14:4B:61 | WPA2-PSK,AES | |

7. Enter the key (WiFi password) for the selected SSID in the **Key** box and click **Next**.



Quick Setup >> Universal Repeater

Ensure that the device uses the same channel, encryption, and encryption algorithm as those of upstream AP. Then enter the remote AP's WiFi password, and click "Next" to continue.

Upstream AP Tenda_XXXXXX

Upstream AP MAC Address C8:3A:35:14:4B:61

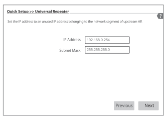
Channel 11 (2462)

Security Mode WPA2-PSK

Encryption Algorithm ● AES ○ TKIP ○ TKIP&AES

Key ••••••••

8. Click **Next**.



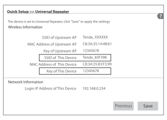
Quick Setup >> Universal Repeater

Set the IP address to an unused IP address belonging to the network segment of upstream AP.

IP Address 192.168.0.254

Subnet Mask 255.255.255.0

9. Note down the SSID (WiFi name) and key (WiFi password) of this device and click **Save** to apply your settings.



Quick Setup >> Universal Repeater

The device is set to Universal Repeater, click "Save" to apply the settings

Wireless Information

SSID of Upstream AP Tenda_XXXXXX

MAC Address of Upstream AP C8:3A:35:14:4B:61

Key of Upstream AP 12345678

SSID of This Device Tenda_83F398

MAC Address of This Device C8:3A:35:83:F3:99

Key of This Device 12345678

Network Information

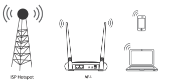
Login IP Address of This Device 192.168.0.254

When the **BRIDGE** LED indicator of the AP is solid on, it bridges to your router successfully.

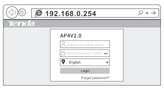
10. Relocate the AP to a place where you plan to broaden WiFi coverage.

## WISP mode

If you want to bridge to an ISP hotspot and enable your wireless and wired devices to share the internet connection, choose this mode.



1. Power on the AP, and connect your computer to the AP.
2. Start a web browser on the computer connected to the AP, and visit **192.168.0.254**.
3. Enter the default user name and password (**admin** for both), and click **Login**.



192.168.0.254

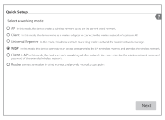
AP4V2.0

Default user name: admin

Default password: admin

English

4. Select **WISP** mode and click **Next**.

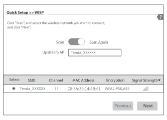


Quick Setup

Select a working mode:

- ○ AP In this mode, the device creates a wireless network based on the current wired network.
- ○ Client 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.
- ● WISP In this mode, this device connects to an access point provided by ISP in wireless manner, and provides the wireless network.
- ○ Client + AP In this mode, the device extends an existing wireless network. You can customize the wireless network name and password of the extended wireless network.
- ○ Router connect to modem in wired manner, and provide network access point

5. Select the SSID (WiFi name) of the ISP hotspot and click **Next**.



Quick Setup >> WISP

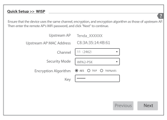
Click "Scan", and select the wireless network you want to connect, and click "Next".

Scan Scan Again

Upstream AP Tenda_XXXXXX

| Select | SSID | Channel | MAC Address | Encryption | Signal Strength▾ |
|---|---|---|---|---|---|
| ● | Tenda_XXXXXX | 11 | C8:3A:35:14:4B:61 | WPA2-PSK,AES | |

6. Enter the key (WiFi password) for the selected SSID in the **Key** box and click **Next**.



Quick Setup >> WISP

Ensure that the device uses the same channel, encryption, and encryption algorithm as those of upstream AP. Then enter the remote AP's WiFi password, and click "Next" to continue.

Upstream AP Tenda_XXXXXX

Upstream AP MAC Address C8:3A:35:14:4B:61

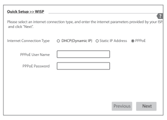
Channel 11 (2462)

Security Mode WPA2-PSK

Encryption Algorithm ● AES ○ TKIP ○ TKIP&AES

Key ••••••••

7. Select the internet connection type of your ISP hotspot. PPPoE is used for illustration here. Select **PPPoE**, enter the PPPoE user name and password provided by your ISP, and click **Next**.



Quick Setup >> WISP

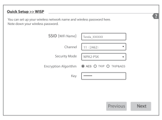
Please select an internet connection type, and enter the internet parameters provided by your ISP, and click "Next".

Internet Connection Type ○ DHCP(Dynamic IP) ○ Static IP Address ● PPPoE

PPPoE User Name

PPPoE Password

8. Customize your SSID (WiFi name), select a security mode, customize the key (WiFi password), and click **Next**.



Quick Setup >> WISP

You can set up your wireless network name and wireless password here. Note down your wireless password.

SSID (WiFi Name) Tenda_XXXXXX

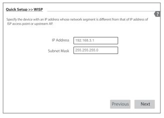
Channel 11 (2462)

Security Mode WPA2-PSK

Encryption Algorithm ● AES ○ TKIP ○ TKIP&AES

Key ••••••••

9. Set the IP address to an unused IP address belonging to different network segment from that of the ISP hotspot. For example, if the IP address of the ISP hotspot is 192.168.1.1, and the subnet mask is 255.255.255.0, you can set the **IP address** here to **192.168.*X*.1** (*X* ranges from 2 to 254), and **Subnet Mask** to **255.255.255.0**. Then click **Next**.



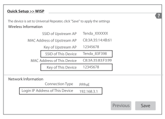
Quick Setup >> WISP

Specify the device with an IP address whose network segment is different from that of IP address of ISP access point or upstream AP.

IP Address 192.168.3.1

Subnet Mask 255.255.255.0

10. Note down the SSID (WiFi name), WiFi password and login IP address of this device and click **Save** to apply your settings.



Quick Setup >> WISP

The device is set to Universal Repeater, click "Save" to apply the settings

Wireless Information

SSID of Upstream AP Tenda_XXXXXX

MAC Address of Upstream AP C8:3A:35:14:4B:61

Key of Upstream AP 12345678

SSID of This Device Tenda_83F398

MAC Address of This Device C8:3A:35:83:F3:99

Key of This Device 12345678

Network Information

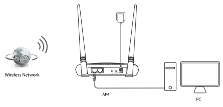
Connection Type PPPoE

Login IP Address of This Device 192.168.3.1

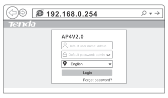
When the **BRIDGE** LED indicator of the AP is solid on, it bridges to the ISP hotspot successfully.

## Client mode

If you want to use this device to connect your wired devices, such as an Xbox, a Wii, a printer or a set-top box, to a wireless network, choose this mode.



1. Power on the AP, and connect your computer to the AP.
2. Start a web browser on the computer connected to the AP, and visit **192.168.0.254**.
3. Enter the default user name and password (**admin** for both), and click **Login**.



192.168.0.254

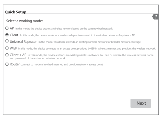
AP4V2.0

Default user name: admin

Default password: admin

English

4. Select **Client** mode and click **Next**.



Quick Setup

Select a working mode:

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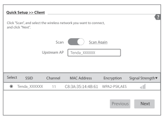
- ● Client In this mode, the device works as a wireless adapter to connect to the wireless network of upstream AP.
- ○ Universal Repeater In this mode, this device extends an existing wireless network for broader network coverage.
- ○ WISP In this mode, this device connects to an access point provided by ISP in wireless manner, and provides the wireless network.
- ○ Client + AP In this mode, the device extends an existing wireless network. You can customize the wireless network name and password of the extended wireless network.
- ○ Router connect to modem in wired manner, and provide network access point

5. Select the SSID of your existing WiFi network and click **Next**.



Quick Setup >> Client

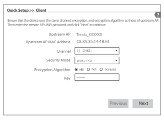
Click "Scan", and select the wireless network you want to connect, and click "Next".

Scan Scan Again

Upstream AP Tenda_XXXXXX

| Select | SSID | Channel | MAC Address | Encryption | Signal Strength▾ |
|---|---|---|---|---|---|
| ● | Tenda_XXXXXX | 11 | C8:3A:35:14:4B:61 | WPA2-PSK,AES | |

6. Enter the WiFi password for the selected SSID in the **Key** box and click **Next**.



Quick Setup >> Client

Ensure that the device uses the same channel, encryption, and encryption algorithm as those of upstream AP. Then enter the remote AP's WiFi password, and click "Next" to continue.

Upstream AP Tenda_XXXXXX

Upstream AP MAC Address C8:3A:35:14:4B:61

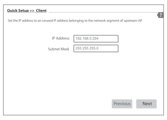
Channel 11 (2462)

Security Mode WPA2-PSK

Encryption Algorithm ● AES ○ TKIP ○ TKIP&AES

Key ••••••••

7. Click **Next**.



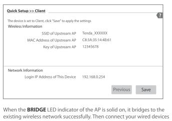
Quick Setup >> Client

Set the IP address to an unused IP address belonging to the network segment of upstream AP.

IP Address 192.168.0.254

Subnet Mask 255.255.255.0

8. Click **Save** to apply your settings.



Quick Setup >> Client

The device is set to Client, click "Save" to apply the settings

Wireless Information

SSID of Upstream AP Tenda_XXXXXX

MAC Address of Upstream AP C8:3A:35:14:4B:61

Key of Upstream AP 12345678

Network Information

Login IP Address of This Device 192.168.0.254

When the **BRIDGE** LED indicator of the AP is solid on, it bridges to the existing wireless network successfully. Then connect your wired devices to the AP using Ethernet cables for internet access.

## FAQ

**Q1: I cannot log in to the web UI of the AP by entering 192.168.0.254. What should I do?**

**A1:** Try the following method:

- Ensure that the computer used to configure the AP is connected to the AP in wired or wireless manner.
- Ensure that the IP address of the computer used to configure the AP is set to an unused IP address belonging to the same network segment of that of the AP. For example, the default IP address of the AP is 192.168.0.254. The IP address of the computer should be set to 192.168.0.*X* (*X* ranges from 2 to 253), and subnet mask should be set to 255.255.255.0.
- If the AP works in WISP mode, its IP address may be changed. Check the gateway address of your computer connected to the AP, and try again with this IP address.
- Clear the cache of your browser.
- If the problem persists, reset the AP to factory settings and configure it again by following this quick installation guide.

**Q2: How to reset the AP to factory settings?**

**A2:** Note: Resetting the AP clears all settings, and you need to configure it again.

When the SYS LED indicator of the AP is blinking, hold down the **Reset/WPS** button for about **7** seconds, then release it. When all LED indicators light up, the AP is reset to factory settings successfully.

**CE Mark Warning**

This is a Class B 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.

The mains plug is used as disconnect device, the disconnect device shall remain readily operable.

**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 AP4 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: http://www.tendacn.com/en/service/download-cata-101.html

Operating Frequency: EU/2400-2483.5MHz (CH1-CH13)

EIRP Power (Max.): 19.8 dBm

Software Version: V1.0.0.4

Hereby, SHENZHEN TENDA TECHNOLOGY CO., LTD. declares that the radio equipment type AP5 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: http://www.tendacn.com/en/service/download-cata-101.html

Operating Frequency: EU/2400-2483.5MHz (CH1-CH13)

EIRP Power (Max.): 19.8 dBm

Software Version: V1.0.0.2

**FCC Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning 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 receiver.

— Connect the equipment into an outlet on a circuit different from that to which the 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 harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**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 this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Operating frequency: 2412-2462MHz

**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.

⚠ **Caution:**

Adapter Model: BN049-A05009E, BN049-A05009B
Manufacture: SHENZHEN HEWEISHUN NETWORK TECHNOLOGY CO., LTD.
Input: 100-240V AC, 50/60Hz, 0.3A
Output: 9V DC, 0.6A
⎓: DC Voltage

⚠ **Caution:**

Adapter Model: BN036-A12012E, BN036-A12012B
Manufacture: SHENZHEN HEWEISHUN NETWORK TECHNOLOGY CO., LTD.
Input: 100 - 240V AC, 50/60Hz 0.4 A
Output: 12V DC, 1A
⎓: DC Voltage

Operating Temperature: -10℃ - 45℃
Operating Humidity: (10% - 90%) RH, non-condensing

**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 a new electrical or electronic equipment.

**Technical Support**

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