Tenda OAP1200-V2.0

Tenda AC1200 Dual-Band Outdoor Wi-Fi Access Point (OAP1200) User Manual

Model: OAP1200-V2.0 | Brand: Tenda

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Tenda AC1200 Dual-Band Outdoor Wi-Fi Access Point (OAP1200). The OAP1200 is designed to provide robust and reliable outdoor wireless connectivity, featuring MU-MIMO technology, IP65 weather resistance, and Power over Ethernet (PoE) support. Please read this manual thoroughly before using the device to ensure proper setup and optimal performance.

Image: Tenda OAP1200 Access Point and its retail packaging, highlighting its 802.11AC, 5GHz, 2.4GHz, MU-MIMO, AC1200, and IP65 features.

Safety Information

- Ensure the device is installed in a location that complies with local regulations and safety standards.
- Do not open or attempt to repair the device yourself. Refer all servicing to qualified personnel.
- Use only the power adapter and accessories provided or recommended by Tenda.
- Protect the device from strong impacts, vibrations, and extreme temperatures outside its specified operating range.
- Ensure proper grounding for lightning protection, especially for outdoor installations. The device features 6KV lightning protection and 15KV ESD protection.
- The IP65-rated enclosure provides protection against dust ingress and water jets, but it is not designed for submersion.

Image: The Tenda OAP1200 Access Point mounted outdoors in rainy conditions, illustrating its waterproof enclosure, resistance to dust ingress, 6KV lightning protection, 15KV ESD protection, and ability to withstand temperatures from -30°C to 50°C.

Package Contents

Verify that all items are present in your package:

- Tenda OAP1200 Dual-Band Outdoor Wi-Fi Access Point
- Passive PoE Injector
- Power Adapter
- Mounting Kit (straps/screws for pole/wall mounting)
- Quick Installation Guide

Product Overview

The Tenda OAP1200 is an outdoor access point designed for extended Wi-Fi coverage. It features two external omni-

directional antennas and multiple operating modes to suit various networking needs.

Components

- **Antennas:** Two 5 dBi omni-directional antennas for broad coverage.
- **Ethernet Port:** For data and Power over Ethernet (PoE) connection.
- **Reset Button:** Used to restore factory default settings.
- **LED Indicators:** Provide status information (Power, Wi-Fi, LAN).

Image: Front and side views of the Tenda OAP1200 Access Point, showing its compact design and antenna placement.

Setup

1. Physical Installation

The OAP1200 supports both pole and wall mounting. Choose a location that provides optimal Wi-Fi coverage and is within reach of a power source.

- **Pole Mounting:** Use the provided straps to secure the device to a pole. Ensure it is mounted vertically with antennas pointing upwards.
- **Wall Mounting:** Use the provided screws and anchors to mount the device securely to a wall.

Image: Two scenarios demonstrating the flexible mounting options for the Tenda OAP1200: one showing it pole-mounted outdoors at night, and another showing it wall-mounted indoors.

2. Powering On (PoE)

The OAP1200 is powered via Power over Ethernet (PoE) using the included PoE injector.

1. Connect an Ethernet cable from the OAP1200's Ethernet port to the "PoE" port on the PoE injector.
2. Connect another Ethernet cable from your router or network switch to the "LAN" port on the PoE injector.
3. Connect the power adapter to the PoE injector and plug it into a power outlet.
4. The Power LED on the OAP1200 should illuminate, indicating it is receiving power.

Image: A diagram illustrating the connection of the Tenda OAP1200 Access Point to a power outlet and a router using a PoE injector, emphasizing effortless outdoor deployment with passive PoE.

Image: A detailed diagram showing how to connect the Tenda OAP1200 to a router and power source using the provided passive PoE adapter.

3. Initial Configuration

Access the device's web management interface to configure settings.

1. Connect your computer directly to the LAN port of the PoE injector (or to your router if the OAP1200 is connected to it).
2. Set your computer's IP address to be in the same subnet as the OAP1200's default IP (e.g., 192.168.0.X, where X is not 254). The default IP address for the OAP1200 is typically **192.168.0.254**.
3. Open a web browser and enter the default IP address (e.g.,http://192.168.0.254) in the address bar.
4. Enter the default login credentials (usually *admin/admin* or as specified in the Quick Installation Guide).
5. Follow the on-screen wizard to set up your Wi-Fi network (SSID, password, operating mode).

Operating Modes

The Tenda OAP1200 supports multiple operating modes to adapt to different network environments.

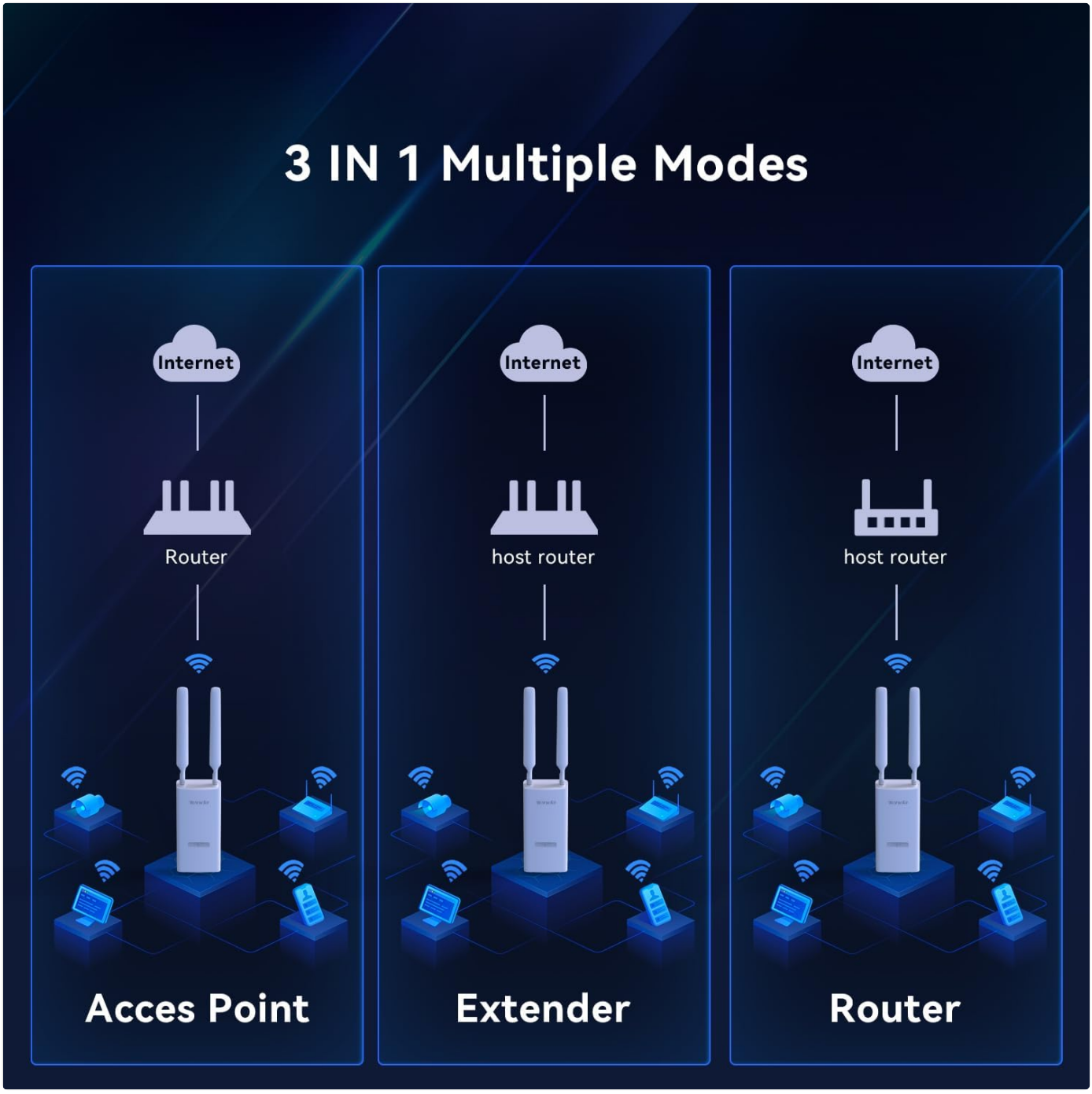

Image: A diagram illustrating the three primary operating modes of the Tenda OAP1200: Access Point, Extender, and Router, showing how each connects to the internet and distributes Wi-Fi to client devices.

1. Access Point (AP) Mode

In AP mode, the OAP1200 connects to an existing wired network and broadcasts a wireless signal, extending Wi-Fi coverage. This is the most common mode for expanding an existing network.

- Connect the OAP1200 to your main router via an Ethernet cable.
- Configure the OAP1200 to operate in AP mode through its web interface.
- Set up your desired Wi-Fi network name (SSID) and password.

2. Extender Mode (Repeater Mode)

In Extender mode, the OAP1200 wirelessly connects to an existing Wi-Fi network and re-broadcasts it, extending the range of the original network without requiring a wired connection to the main router.

- Place the OAP1200 within range of your existing Wi-Fi network.
- Configure the OAP1200 to operate in Extender mode and select the network you wish to extend.

3. Router Mode

In Router mode, the OAP1200 acts as a primary router, connecting directly to your internet service provider's modem and creating a new Wi-Fi network for your devices.

- Connect the OAP1200's Ethernet port to your modem.
- Configure the OAP1200 to operate in Router mode and set up your internet connection details (e.g., PPPoE, Dynamic IP, Static IP).

Connecting Devices

Once the OAP1200 is configured, devices can connect to its Wi-Fi network using the SSID and password you have set. The OAP1200 supports simultaneous dual-band connectivity (2.4 GHz and 5 GHz) and MU-MIMO technology for efficient data transfer to multiple devices.

Image: The Tenda OAP1200 Access Point mounted on a wall, with multiple devices (smartphones, tablets, security cameras, laptops) wirelessly connected, illustrating its capability to connect up to 250 devices simultaneously.

Image: A visual representation of the Tenda OAP1200's MU-MIMO and Beamforming technologies, showing its dual-band capabilities with 867 Mbps on 5 GHz and 300 Mbps on 2.4 GHz, designed for business-grade Wi-Fi.

Maintenance

- **Firmware Updates:** Regularly check the Tenda official website for firmware updates to ensure optimal performance, security, and access to new features.
- **Cleaning:** Periodically clean the exterior of the device with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- **Environmental Conditions:** Ensure the device operates within its specified temperature and humidity ranges. While IP65 rated, avoid prolonged exposure to extreme conditions beyond its design.
- **Cable Inspection:** Periodically inspect Ethernet cables and power connections for any signs of wear or damage.

Troubleshooting

No Power / Device Not Turning On

- Ensure the power adapter is securely connected to the PoE injector and the power outlet.
- Verify the Ethernet cable from the PoE injector's "PoE" port to the OAP1200 is properly connected.
- Check if the power outlet is functional.

Cannot Access Web Management Interface

- Ensure your computer's IP address is in the same subnet as the OAP1200 (e.g., 192.168.0.X if the OAP1200 is 192.168.0.254).
- Verify the Ethernet connection between your computer and the PoE injector/router.
- Try clearing your browser's cache or using a different browser.
- If you have forgotten the login password, you may need to perform a factory reset (see below).

No Internet Connection

- Check the connection from the PoE injector's "LAN" port to your router/modem.
- Verify that your main router/modem has an active internet connection.
- Ensure the OAP1200 is configured in the correct operating mode (AP, Extender, or Router) for your network setup.

Poor Wi-Fi Signal or Slow Speeds

- Relocate the OAP1200 to a more central position or higher elevation to improve coverage.
- Minimize physical obstructions (thick walls, metal objects) between the OAP1200 and client devices.
- Check for Wi-Fi interference from other devices (cordless phones, microwaves) and consider changing Wi-Fi channels.
- Ensure client devices support 802.11ac and are connected to the 5 GHz band for higher speeds if available.

Factory Reset

To restore the OAP1200 to its factory default settings:

1. With the device powered on, use a paper clip or a thin object to press and hold the Reset button for approximately 8-10 seconds.
2. Release the button when the LED indicators flash rapidly.
3. The device will reboot with factory default settings. You will need to reconfigure it.

Specifications

Feature	Detail
Model Name	OAP1200-V2.0
Wireless Standard	IEEE 802.11ac/a/n (5GHz), IEEE 802.11b/g/n (2.4GHz)
Frequency Band	Dual-Band (2.4 GHz & 5 GHz)
Wireless Speed	Up to 1167 Mbps (2.4 GHz: 300 Mbps, 5 GHz: 867 Mbps)
Antennas	2 * 5 dBi Omni-directional Antennas
Ethernet Ports	1 x 10/100/1000 Mbps (PoE supported)

Feature	Detail
Power Supply	24V 0.5A Passive PoE Injector (Included), IEEE 802.3at compatible
Waterproof Rating	IP65
Lightning Protection	6KV
ESD Protection	15KV
Operating Temperature	-30°C to 50°C (-22°F to 122°F)
Dimensions (L x W x H)	194.7mm x 83mm x 42.1mm (approx. 7.67 x 3.27 x 1.66 inches)
Weight	8.1 ounces (approx. 230g)

Image: A visual representation of the Tenda OAP1200 Access Point with its key dimensions: 194.7mm length, 83mm width, and 42.1mm depth, shown next to a smartphone for scale.

Warranty and Support

Tenda products typically come with a limited warranty. Please refer to the warranty card included in your package or visit the official Tenda website for detailed warranty terms and conditions specific to your region.

Technical Support

For technical assistance, troubleshooting, or product inquiries, please contact Tenda customer support through their official website or the contact information provided in your product documentation. You may also find helpful resources, FAQs, and firmware downloads on the Tenda support page.
Tenda Official Website: https://www.tendacn.com/