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› TP-Link AX1800 Dual Band Gigabit Wi-Fi 6 Access Point (TL-WA1801) Desktop Wi-Fi Bridge HE80 & Beamforming Supports Multi-SSID/Client/Range Extender Mode 4 Fixed Antennas Passive PoE AX1800|Desktop

TP-Link TL-WA1801

TP-Link AX1800 Dual Band Gigabit Wi-Fi 6 Access Point

MODEL: TL-WA1801

Brand: TP-Link

1. Introduction

The TP-Link AX1800 Dual Band Gigabit Wi-Fi 6 Access Point (TL-WA1801) is designed to enhance your home or office Wi-Fi experience. Utilizing cutting-edge MIMO technology on both 5 GHz and 2.4 GHz bands, this Wi-Fi 6 access point delivers combined speeds of up to 1.8 Gbps, ideal for managing high Wi-Fi usage across multiple devices simultaneously.

Equipped with four external antennas and intelligent Beamforming technology, the 802.11ax access point ensures stable and reliable connections over extended distances. It is suitable for various internet activities, including 4K streaming, smart home device integration, and general internet use.



Figure 1: TP-Link AX1800 Dual Band Gigabit Wi-Fi 6 Access Point (TL-WA1801)

2. What's in the Box

Verify that all components are present in your package:

- Wireless Access Point TL-WA1801
- Power Adapter
- RJ45 Ethernet Cable
- Quick Installation Guide
- PoE Power Injector

3. Setup

The TL-WA1801 supports flexible power options, including Passive Power over Ethernet (PoE), which allows the device

to be powered and receive data through a single Ethernet cable. This eliminates the need for a nearby power outlet and enables flexible placement up to 100 feet away.

3.1 Powering via Passive PoE

1. Connect the provided Power Adapter to the PoE Power Injector.
2. Connect one end of the RJ45 Ethernet Cable to the "PoE" port on the PoE Power Injector.
3. Connect the other end of this Ethernet cable to the Ethernet port on the TL-WA1801 Access Point.
4. Connect another RJ45 Ethernet Cable from your router or network switch to the "LAN" port on the PoE Power Injector.
5. Ensure all connections are secure. The access point will power on and begin initialization.

Flexible Placement

Enjoy clutter-free home with this PoE-powered access point.

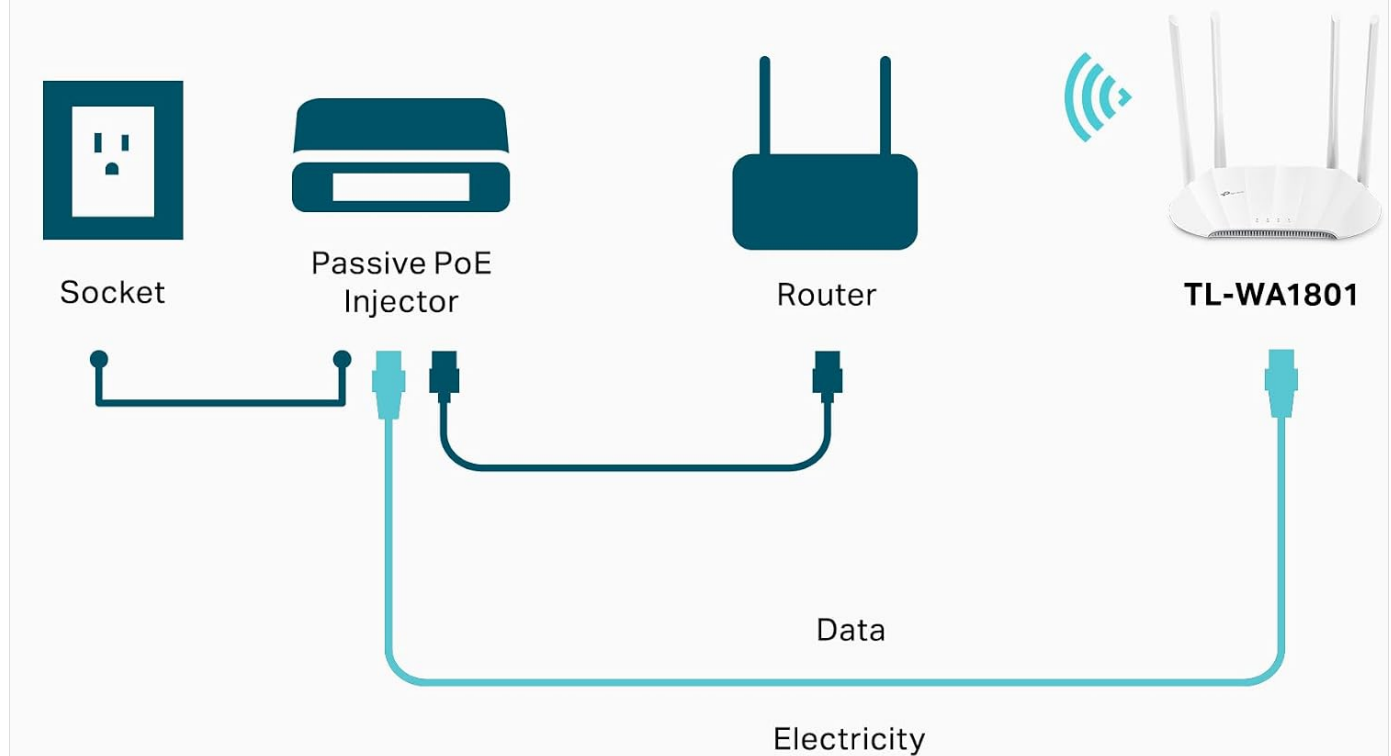


Figure 2: Passive PoE Connection Diagram

3.2 Initial Configuration

Refer to the included Quick Installation Guide for detailed steps on initial setup, typically involving connecting to the device's default Wi-Fi network and accessing its web-based management interface or using the TP-Link Tether app for configuration.

4. Operating Modes

The TL-WA1801 supports multiple operation modes to adapt to various network needs:

- **Access Point Mode (Default):** Transforms your existing wired network into a wireless one, allowing all your Wi-Fi devices to connect.
- **Client Mode:** Acts as a "Wireless Adapter" to connect your wired devices (e.g., smart TVs, game consoles) to a wireless network.
- **Range Extender Mode:** Extends your existing wireless coverage by repeating the wireless signal from your main router.
- **Multi-SSID Mode (VLAN Support):** Simultaneously supports up to four separate SSIDs and VLANs on each band, ideal for offices or guest networks where different access policies are required.

Multi-Mode 4 in 1

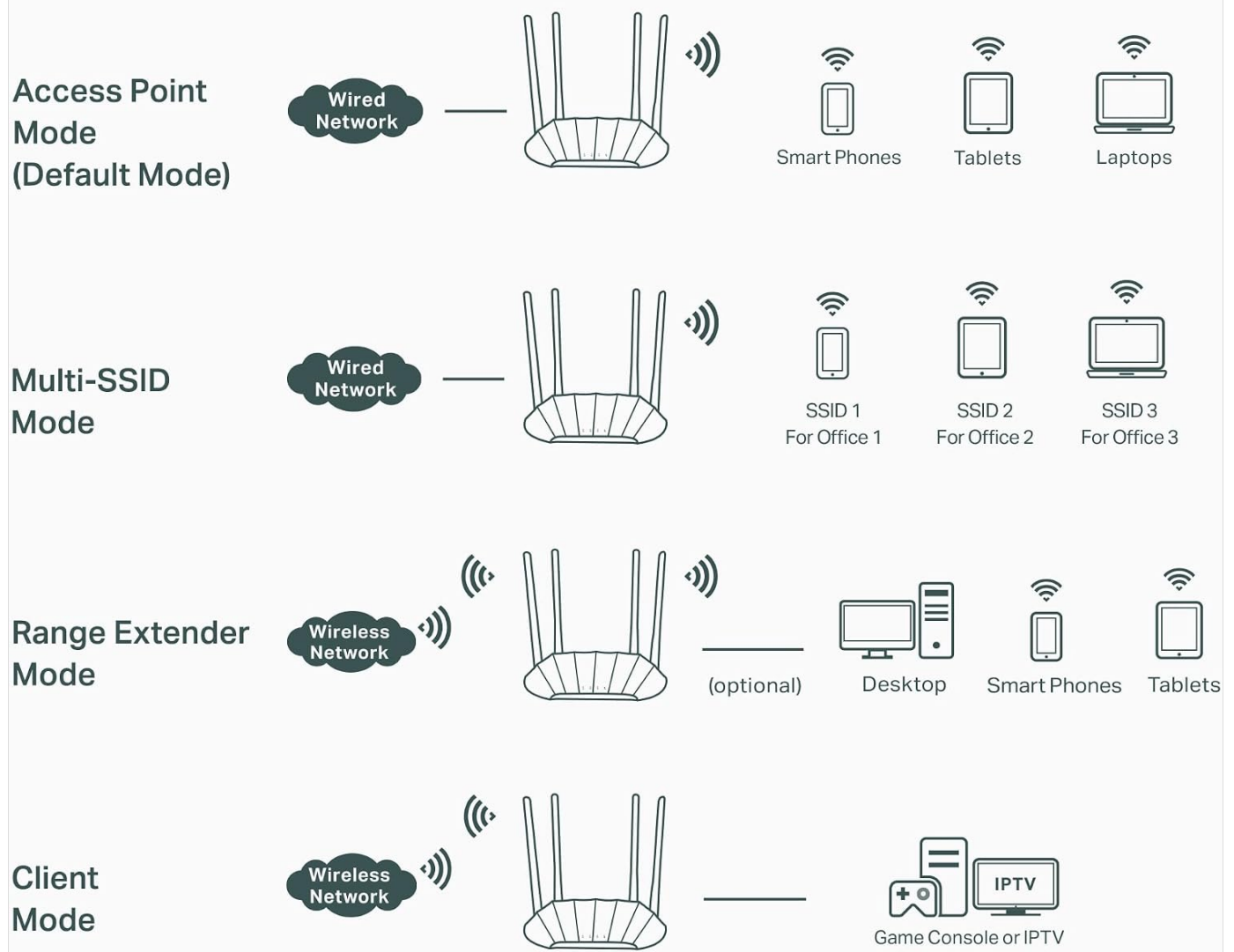


Figure 3: TL-WA1801 Operating Modes

5. Performance and Coverage

The AX1800 Dual Band Gigabit Wi-Fi 6 Access Point is engineered for high performance and extended coverage:

- **Gigabit Wi-Fi 6 Speeds:** With MIMO technology on both 5 GHz and 2.4 GHz bands, it delivers combined speeds of up to 1.8 Gbps, ensuring smooth performance for demanding applications.

- **Expanded Wi-Fi Coverage:** Four external antennas combined with intelligent Beamforming technology focus the Wi-Fi signal towards connected devices, ensuring reliable connectivity even across long distances and reducing dead zones.
- **Advanced Security:** Supports the latest WPA3 security protocol, reinforcing your network with enhanced encryption and robust protection against unauthorized access.

Blazing-Fast Wi-Fi 6

Brings faster speeds, less lag, and higher capacity, enabling more simultaneous connections on your home network.



Figure 4: Blazing-Fast Wi-Fi 6 Capabilities

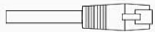
AX1800 Dual Band Wi-Fi

Power up your network and empower your devices with up to 1800 Mbps, perfect for handling any workload.



TL-WA1801 Wi-Fi 6 (11ax) 5GHz 2x2

1800 Mbps



GbE Solution

1000 Mbps



2x2 Wi-Fi 5 (11ac) Solution

867 Mbps



1x1 Wi-Fi 5 (11ac) Solution

433 Mbps

Figure 5: AX1800 Dual Band Wi-Fi Speed Comparison

Boosted WiFi Coverage

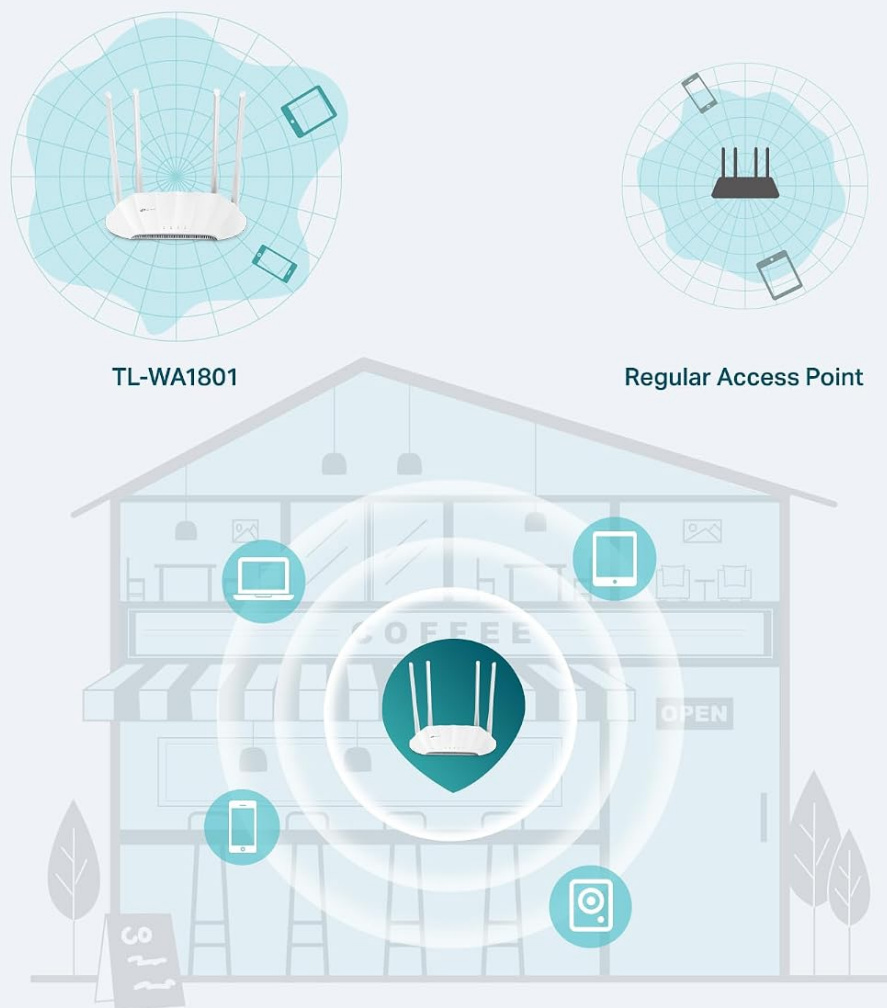


Figure 6: Boosted Wi-Fi Coverage

6. Maintenance

To ensure optimal performance and longevity of your TP-Link TL-WA1801 Access Point, regular maintenance is recommended:

- **Firmware Updates:** Periodically check the TP-Link official website for the latest firmware updates. Updating firmware can improve performance, add new features, and enhance security.
- **Cleaning:** Keep the device clean and free from dust. Use a soft, dry cloth to wipe the exterior. Ensure ventilation slots are not obstructed.
- **Placement:** Ensure the device is placed in a well-ventilated area, away from direct sunlight, heat sources, and strong electromagnetic interference.
- **Rebooting:** Occasionally rebooting the access point can help clear its memory and resolve minor performance issues.

7. Troubleshooting

If you encounter issues with your TL-WA1801, try the following troubleshooting steps:

Problem	Solution
No Power/LEDs Off	Ensure the power adapter is securely connected to both the device and a working power outlet. If using PoE, verify the PoE injector is powered and connected correctly.
No Internet Access	Check the Ethernet cable connection from the access point to your router/modem. Verify your main router has internet access. Ensure the access point is configured in the correct operating mode (e.g., Access Point mode).
Weak Wi-Fi Signal/Poor Performance	Relocate the access point to a central location, away from obstructions and interference sources. Adjust antenna orientation. Ensure your client devices support Wi-Fi 6 for optimal speeds.
Cannot Access Management Page	Ensure your device is connected to the access point's Wi-Fi network or via Ethernet. Verify the IP address of the access point and your computer's network settings. Try clearing your browser's cache.
Forgotten Wi-Fi Password or Login Password	Perform a factory reset by pressing and holding the Reset button for approximately 10 seconds until the LEDs flash. Note that this will erase all custom settings.

8. Specifications

Feature	Detail
Model Name	TL-WA1801
Product Dimensions	8.86 x 5.73 x 1.46 inches
Item Weight	12.3 ounces
Wireless Standard	802.11ax (Wi-Fi 6), 802.11ac, 802.11n, 802.11g, 802.11b
Frequency Band Class	Dual-Band (2.4 GHz & 5 GHz)
Combined Wi-Fi Speed	Up to 1.8 Gbps
Antennas	4 Fixed External Antennas
Special Features	Multi-SSID, Access Point Mode, WPS, Range Extender Mode, Client Mode, Beamforming, Passive PoE
Connectivity Technology	Ethernet
Manufacturer	TP-Link
Country of Origin	China

9. Warranty and Support

TP-Link products typically come with a limited warranty. Please refer to the official TP-Link website or the warranty card included in your package for specific warranty terms and conditions applicable to your region.

For technical support, troubleshooting assistance, or to download the latest drivers and firmware, visit the official TP-Link

support page:

TP-Link Official Support

You can also explore the TP-Link Brand Store for more products and information: [TP-Link Store on Amazon](#)

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question