

[Manuals.plus](#) /

› [TP-Link](#) /

› TP-Link Omada BE11000 Tri-Band Wi-Fi 7 Access Point (EAP772) User Manual

TP-Link EAP772

TP-Link Omada BE11000 Tri-Band Wi-Fi 7 Access Point (EAP772) User Manual

Model: EAP772

1. PRODUCT OVERVIEW

The TP-Link Omada BE11000 Tri-Band Wi-Fi 7 Access Point (EAP772) is designed to provide high-performance wireless connectivity for various environments. This device leverages Wi-Fi 7 technology to deliver exceptional speeds and efficiency, making it suitable for demanding network applications.



Figure 1.1: Top view of the EAP772 access point, showing its circular, minimalist design with the TP-Link logo at the center.



Figure 1.2: Side profile of the EAP772 access point, highlighting its slim form factor and ribbed ventilation design.



Figure 1.3: Bottom view of the EAP772, showing the Ethernet port, DC power input, reset button, and the detachable mounting plate.

The EAP772 features a 2.5G Ethernet port, supports Power over Ethernet (PoE) for simplified installation, and operates across three frequency bands (2.4 GHz, 5 GHz, and 6 GHz) to minimize interference and maximize throughput.



Figure 1.4: The EAP772 is an ultra-thin enterprise Wi-Fi 7 access point, designed for modern network infrastructures.

Key Features:

- **BE11000 Tri-Band Wi-Fi 7:** Delivers combined speeds of up to 11000 Mbps (5760 Mbps on 6 GHz, 4320 Mbps on 5 GHz, and 574 Mbps on 2.4 GHz).
- **2.5G Port:** Equipped with a 2.5 Gigabit Ethernet port for high-speed wired connectivity.
- **Clear 6 GHz Band:** Utilizes the new 6 GHz band for cleaner, wider, and less congested wireless resources.
- **320 MHz Bandwidth:** Supports up to 320 MHz bandwidth for increased data throughput.
- **Low Latency and Interference:** Features Multi-Link Operation (MLO) and Multi-RUs for optimized network performance.
- **Omada SDN Support:** Integrates seamlessly with the Omada Software Defined Networking platform for centralized management.
- **Advanced Wireless Technologies:** Includes Mesh WiFi, Seamless Roaming, Band Steering, Load Balancing,

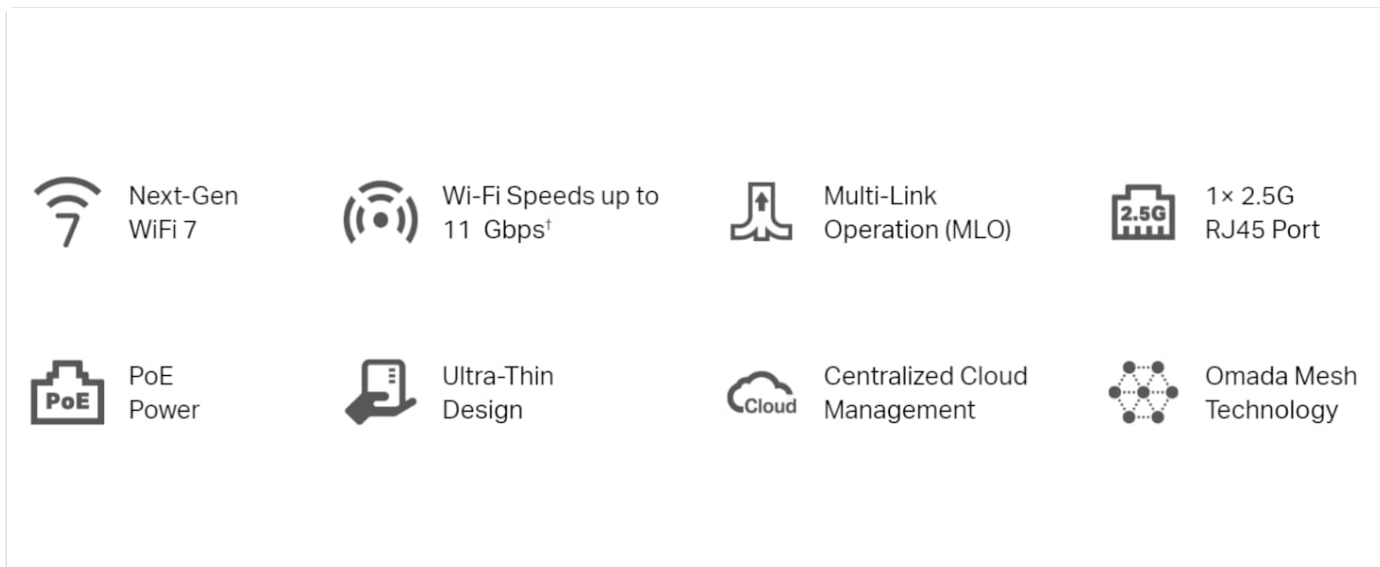


Figure 1.5: Visual representation of the EAP772's core features, emphasizing its Wi-Fi 7 capabilities and network integration.

2. PACKAGE CONTENTS

Verify the contents of your package. If any items are missing or damaged, please contact your retailer or TP-Link support.

- EAP772 Access Point
- Installation Guide
- Ceiling/Wall Mounting Kits

Note: A PoE injector or PoE-enabled switch (802.3bt/at) is required for power, or a 12V DC power adapter (not included).

3. HARDWARE INSTALLATION

3.1 Physical Overview

The EAP772 is designed for ceiling or wall mounting. Its ultra-thin profile allows for discreet integration into various environments.



Figure 3.1: The EAP772 access point seamlessly mounted on a ceiling, demonstrating its low-profile design.

Ultra-Thin Design for Flexible Deployment

The overall design of EAP772 utilizes a thinner circular arc with a groove around the top cover, fitting closer to various installation surfaces such as ceilings. The compact internal hardware layout and heat-dissipating design ensure high performance with a sharp aesthetic.

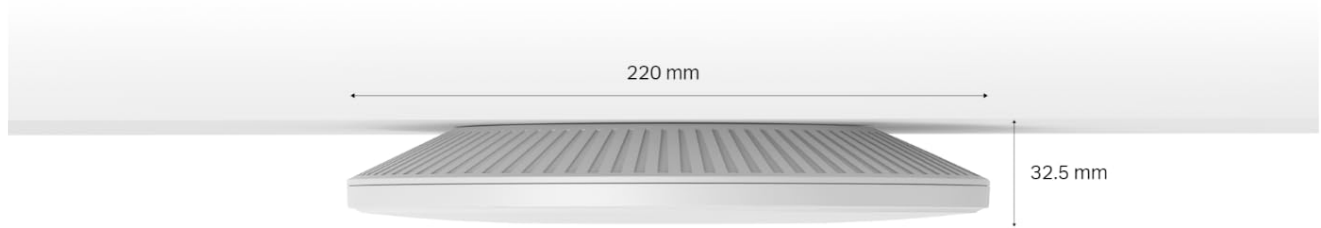


Figure 3.2: Dimensions of the EAP772, illustrating its ultra-thin design (32.5 mm height) and 220 mm diameter, suitable for flexible deployment.

3.2 Mounting the Access Point

The EAP772 can be mounted on a ceiling or wall using the provided mounting kit. Follow these steps for installation:

1. **Prepare the Mounting Location:** Choose a central location for optimal Wi-Fi coverage. Ensure there is access to an Ethernet cable for power (PoE) and data.
2. **Attach the Mounting Bracket:** Use the mounting bracket as a template to mark drill holes on the ceiling or wall. Drill the holes and secure the bracket using the provided screws and anchors.
3. **Connect Ethernet Cable:** Route the Ethernet cable through the opening in the mounting bracket and connect it to the 2.5G Ethernet port on the EAP772.
4. **Secure the Access Point:** Align the EAP772 with the mounting bracket and twist it clockwise until it locks securely into place.

3.3 Powering the Device

The EAP772 can be powered in two ways:

- **Power over Ethernet (PoE):** Connect the EAP772 to a PoE-enabled switch (802.3bt/at compliant) or a PoE injector using an Ethernet cable. This method provides both power and data over a single cable.
- **DC Power:** If PoE is not available, connect a 12V DC power adapter (not included) to the DC power input port.

4. SETUP AND CONFIGURATION

The EAP772 can be managed via the Omada SDN platform or in standalone mode.

4.1 Omada SDN Integration

For centralized management of multiple Omada devices, integrate the EAP772 into your Omada Software Defined Networking (SDN) platform. This requires an Omada Hardware Controller, Software Controller, or Cloud-based Controller.

1. **Connect to Omada Network:** Ensure the EAP772 is connected to the same network as your Omada Controller.
2. **Discover and Adopt:** Use the Omada Controller software or app to discover the EAP772 and adopt it into your network.
3. **Configure Settings:** Once adopted, configure Wi-Fi settings, security protocols, and other network parameters through the Omada Controller interface.

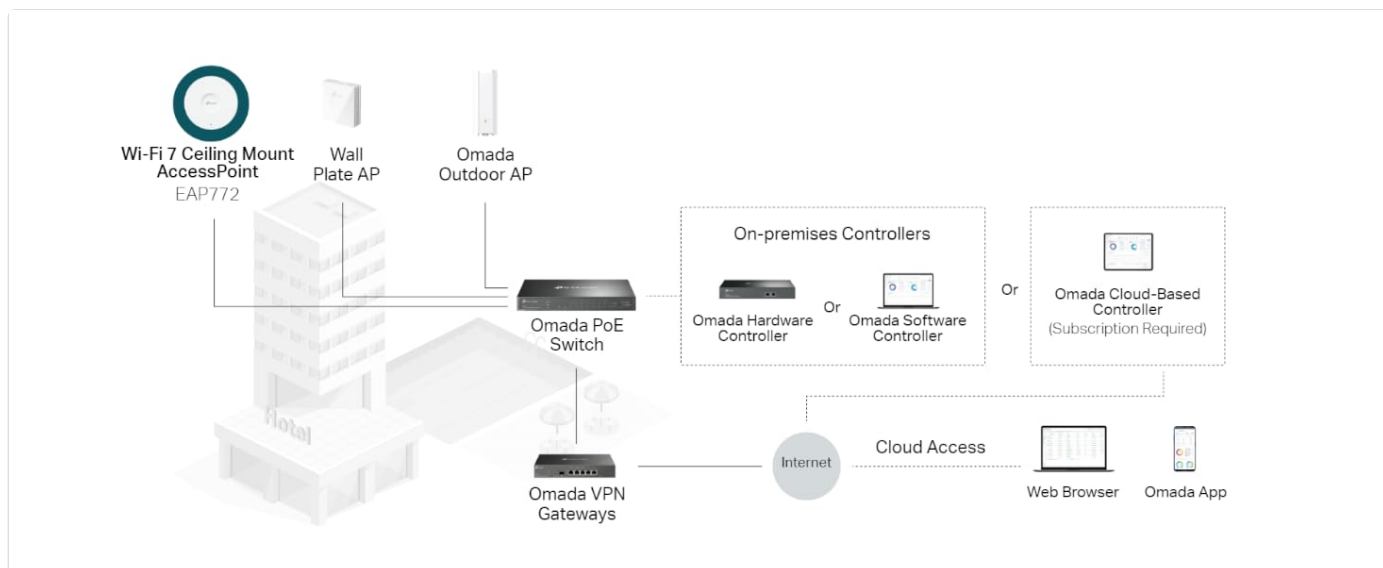


Figure 4.1: Overview of the Omada SDN platform, illustrating how the EAP772 integrates with other network devices and various controller options for centralized management.

4.2 Standalone Mode Configuration

For single device management, the EAP772 can be configured directly via its web interface.

1. **Connect to the EAP772:** Connect your computer directly to the EAP772's Ethernet port or connect to its default Wi-Fi network (SSID and password can be found on the device label).
2. **Access Web Interface:** Open a web browser and enter the default IP address (usually 192.168.0.254 or check the installation guide). Log in using the default credentials (admin/admin).
3. **Configure Wi-Fi Settings:** Navigate to the wireless settings to set up your desired SSIDs, security types (WPA3 recommended), and passwords for the 2.4 GHz, 5 GHz, and 6 GHz bands.
4. **Save Settings:** Apply and save your configurations.

5. OPERATING THE ACCESS POINT

5.1 Wi-Fi 7 Capabilities

The EAP772 leverages Wi-Fi 7 (802.11be) to provide enhanced performance. Key improvements include:

- **Higher Throughput:** Achieved through wider channels (up to 320 MHz) and 4096-QAM modulation.
- **Multi-Link Operation (MLO):** Allows devices to send and receive data simultaneously across different frequency bands (2.4 GHz, 5 GHz, 6 GHz) for increased speed and reliability.
- **Multi-Resource Unit (Multi-RU):** Improves efficiency by allowing multiple users to transmit data concurrently on different parts of the same channel.

Wi-Fi 7: Swifter, Smoother, Stronger

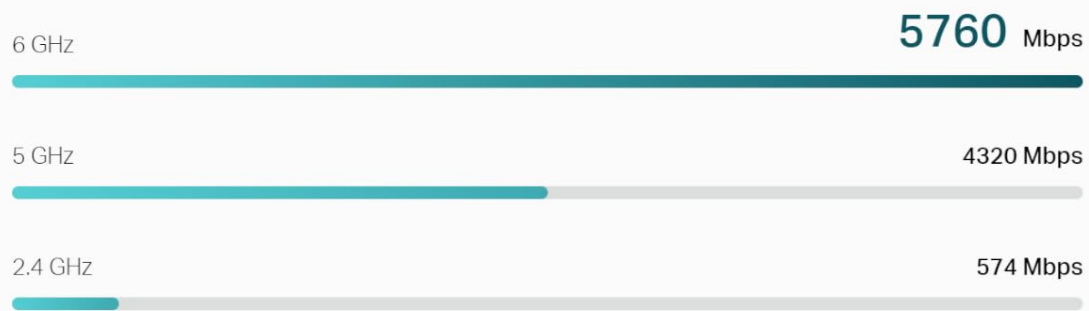


Figure 5.1: Wi-Fi 7 performance breakdown, showing maximum theoretical speeds across the 6 GHz, 5 GHz, and 2.4 GHz bands.

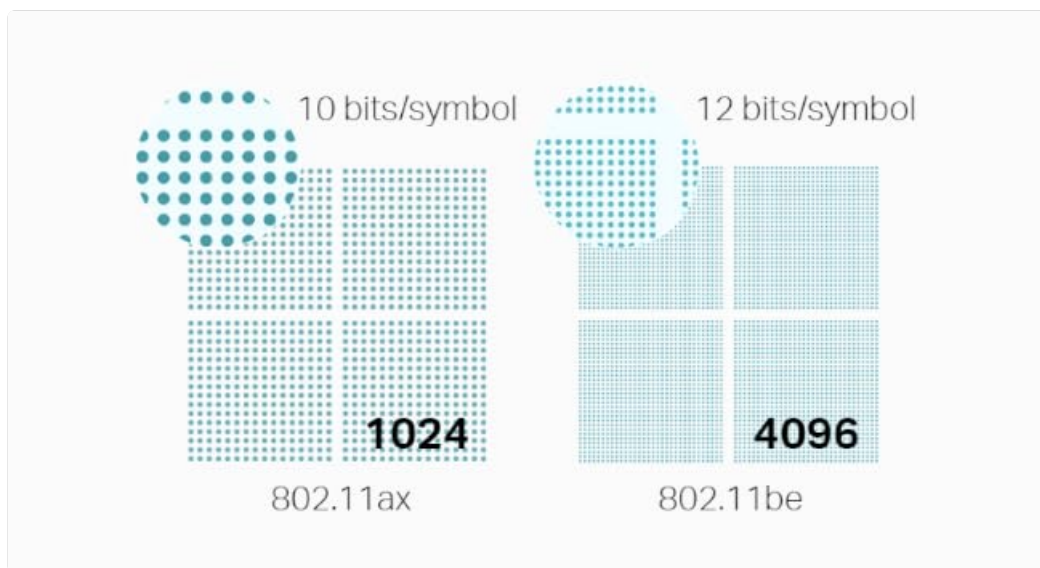


Figure 5.2: Illustration of 4096-QAM, a key Wi-Fi 7 technology that allows for more data to be transmitted per symbol compared to previous Wi-Fi standards.



Figure 5.3: Explanation of Multi-Link Operation (MLO), demonstrating how the EAP772 can aggregate or seamlessly switch between different frequency bands for optimal performance.

5.2 Network Security

The EAP772 provides robust security features to protect your network:

- **Secure Guest Network:** Create isolated guest networks with up to 24 SSIDs.
- **WPA3 Support:** Utilizes the latest Wi-Fi Protected Access 3 (WPA3) for enhanced encryption and security.
- **Rogue AP Detection:** Helps identify and mitigate unauthorized access points on your network.

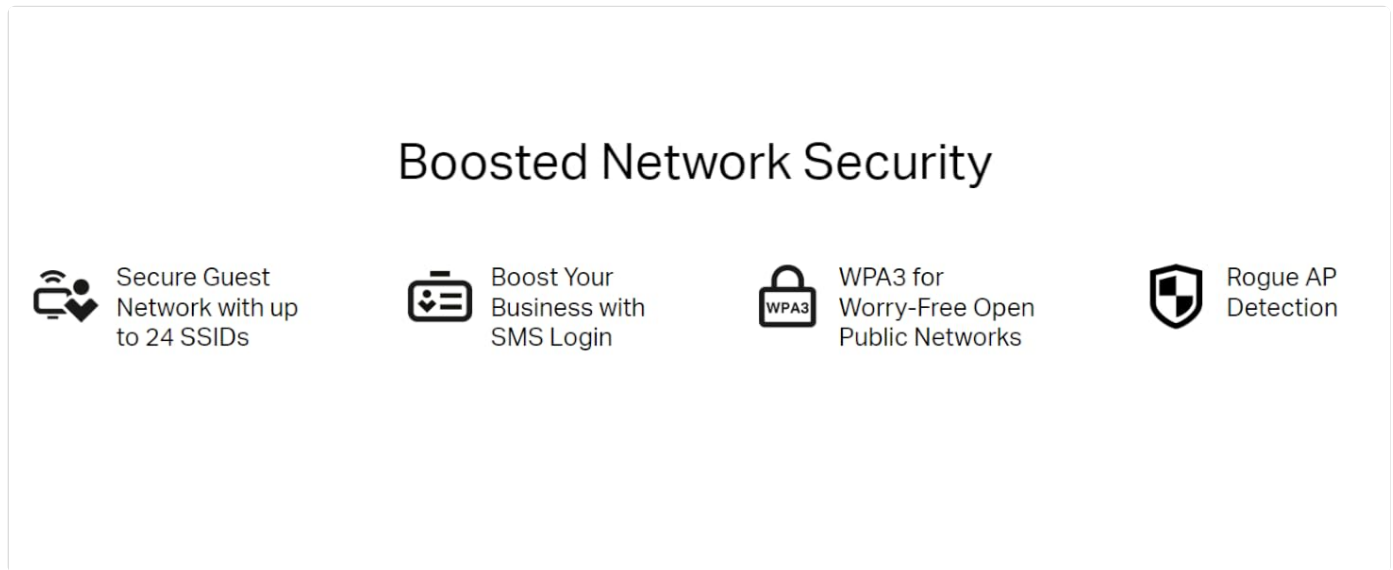


Figure 5.4: Overview of the EAP772's boosted network security features, including secure guest networks, WPA3, and rogue AP detection.

6. MAINTENANCE

6.1 Firmware Updates

Regularly check for and install firmware updates to ensure optimal performance, security, and access to new features. Firmware can be updated via the Omada Controller or the standalone web interface.

- Visit the official TP-Link website for the latest firmware for your EAP772 model.
- Follow the instructions provided with the firmware download for a successful update.

6.2 Cleaning and Care

To maintain the device's longevity and performance:

- Keep the device in a cool, dry environment, away from direct sunlight and heat sources.
- Clean the exterior with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- Ensure proper ventilation around the device to prevent overheating.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your EAP772 access point.

7.1 No Power Indicator Light

- **Check Power Source:** Ensure the PoE switch/injector or DC power adapter is properly connected and supplying power.
- **Verify PoE Standard:** If using PoE, confirm that your switch or injector supports 802.3bt/at PoE.
- **Check Cables:** Ensure the Ethernet cable is securely connected and not damaged.

7.2 Cannot Access Web Management Page

- **IP Address:** Verify that your computer's IP address is in the same subnet as the EAP772. Try the default IP address (e.g., 192.168.0.254).
- **Network Connection:** Ensure your computer is directly connected to the EAP772 or to the network where the EAP772 is connected.
- **Firewall/Antivirus:** Temporarily disable any firewall or antivirus software on your computer that might be blocking access.
- **Reset Device:** If all else fails, perform a factory reset by pressing and holding the reset button for approximately 8 seconds while the device is powered on.

7.3 Poor Wi-Fi Performance

- **Interference:** Check for sources of interference (e.g., microwaves, cordless phones, other Wi-Fi networks).
- **Channel Selection:** In the web interface or Omada Controller, try changing the Wi-Fi channels to less congested ones.
- **Device Placement:** Ensure the access point is centrally located and not obstructed by dense materials.
- **Client Device Compatibility:** Ensure your client devices support Wi-Fi 7 (802.11be) to fully utilize the EAP772's capabilities.
- **Firmware Update:** Ensure the latest firmware is installed.

8. SPECIFICATIONS

Feature	Description
Model	EAP772
Wireless Standards	IEEE 802.11be/ax/ac/n/g/b/a
Frequency	2.4 GHz, 5 GHz, 6 GHz
Signal Rate	6 GHz: 5760 Mbps 5 GHz: 4320 Mbps 2.4 GHz: 574 Mbps
Ethernet Port	1 × 2.5 Gigabit Ethernet Port (RJ-45)
Power Supply	802.3bt/at PoE or 12V DC (adapter not included)
Dimensions (D x H)	220 × 32.5 mm (8.7 × 1.3 in.)
Mounting	Ceiling/Wall Mounting
Operating Temperature	0–40 °C (32–104 °F)
Operating Humidity	10–90% RH non-condensing

9. WARRANTY INFORMATION

The TP-Link Omada BE11000 Tri-Band Wi-Fi 7 Access Point (EAP772) comes with a 5-year limited warranty. For detailed warranty terms and conditions, please refer to the official TP-Link website or contact TP-Link support.

Warranty coverage typically includes defects in materials and workmanship under normal use. It does not cover damage

caused by misuse, accidents, unauthorized modifications, or natural disasters.

10. SUPPORT

For technical support, additional resources, and frequently asked questions, please visit the official TP-Link support website:

www.tp-link.com/support

You can also find contact information for customer service in your region on the support website.