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TP-Link EAP770

TP-Link Omada EAP770 WiFi 7 Wireless Access Point User Manual

Model: EAP770

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1. INTRODUCTION

The TP-Link Omada EAP770 is a high-performance tri-band Wi-Fi 7 ceiling-mount access point designed for robust and scalable business networks. It delivers a combined wireless speed of up to 11.0 Gbps across its 6GHz (5765 Mbps), 5GHz (4324 Mbps), and 2.4GHz (688 Mbps) bands. Equipped with a 2.5G Ethernet port, the EAP770 supports flexible power options including 802.3at Power over Ethernet (PoE) or 12V DC. Its advanced features, such as 320MHz bandwidth on the 6GHz band and Multi-Link Operation (MLO), ensure low latency and high efficiency. The device supports over 380 concurrent devices and provides extensive coverage, integrating seamlessly into Omada's Software Defined Networking (SDN) for centralized management via cloud, app, or local controllers. Enhanced security protocols, including WPA3, 24 SSIDs, and rogue AP detection, make it an ideal solution for demanding network environments.



Figure 1.1: TP-Link Omada EAP770 Wireless Access Point.



Figure 1.2: The EAP770 integrated into a modern office setting, demonstrating its discreet design and suitability for various professional environments.

2. WHAT'S IN THE Box

Verify that your package contains all the items listed below:

- EAP770 Wireless Access Point
- Installation Guide
- Power Adapter
- Ceiling/Wall Mounting Kits

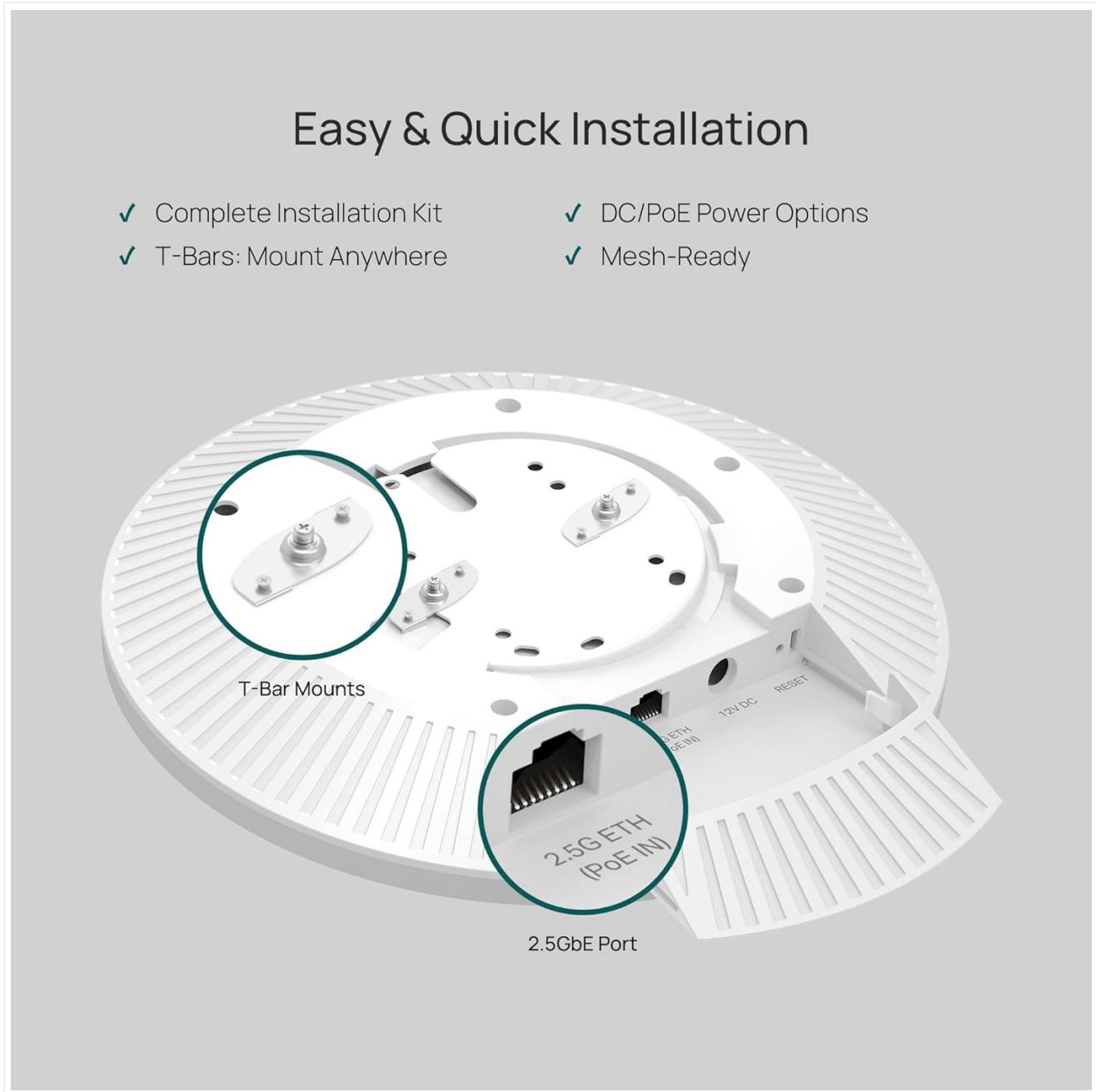


Figure 2.1: The EAP770 access point along with its power adapter and mounting accessories.

3. SPECIFICATIONS

Feature	Description
Model Name	EAP770

Wireless Type	802.11be (Wi-Fi 7), 802.11ax (Wi-Fi 6), 802.11ac (Wi-Fi 5), 802.11n, 802.11g
Frequency Band Class	Tri-Band (6GHz, 5GHz, 2.4GHz)
Connectivity Technology	Wi-Fi
Ethernet Port	1x 2.5G Ethernet Port (PoE In)
Power Options	802.3at PoE or 12V DC (Adapter Included)
Operating System	TP-Link OS
Item Weight	1.54 Pounds
Package Dimensions	11.1 x 10.2 x 3.58 inches
Special Features	Access Point Mode, Beamforming, Internet Security, Omada SDN Integration, Multi-Link Operation (MLO), 4K-QAM
Recommended Uses	Business, Home

4. SETUP GUIDE

4.1 Physical Installation

The EAP770 is designed for ceiling or wall mounting. Use the provided mounting kits to secure the access point in a central location for optimal Wi-Fi coverage. Ensure the mounting surface is stable and can support the device's weight.

Easy & Quick Installation

- ✓ Complete Installation Kit
- ✓ T-Bars: Mount Anywhere
- ✓ DC/PoE Power Options
- ✓ Mesh-Ready

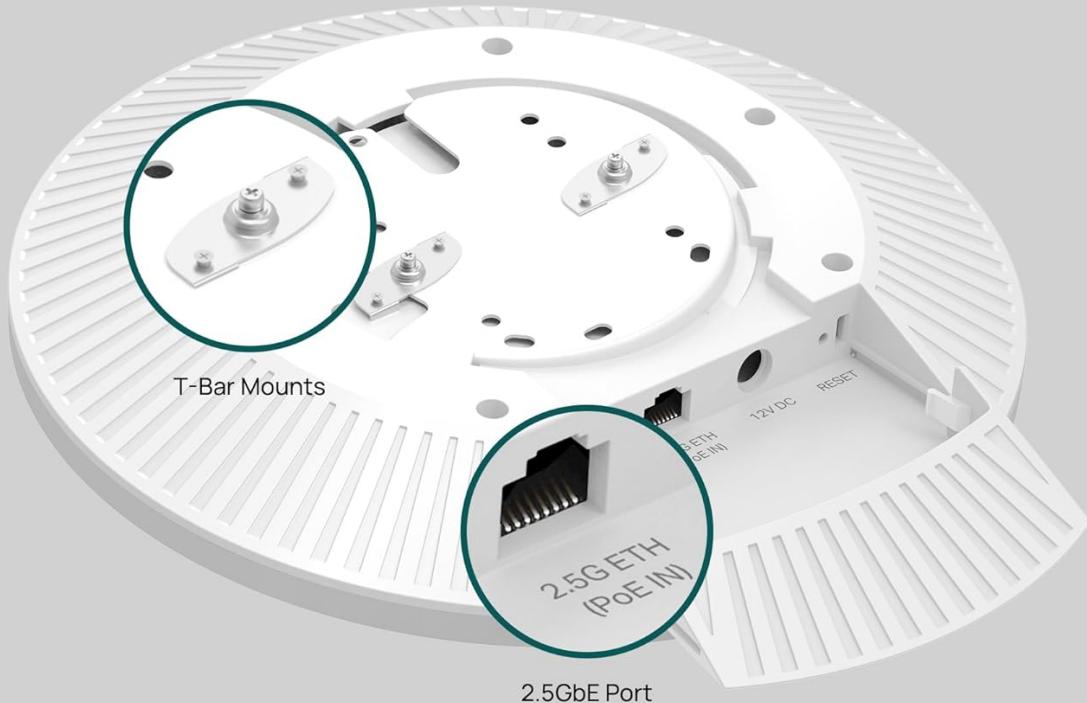


Figure 4.1: EAP770 with included ceiling/wall mounting kits.

4.2 Powering the Device

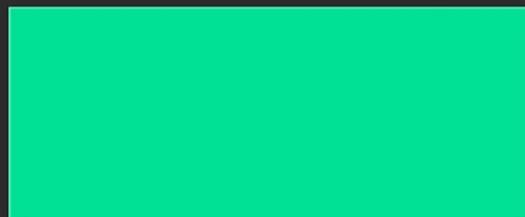
The EAP770 can be powered in two ways:

- **Power over Ethernet (PoE):** Connect an Ethernet cable from an 802.3at PoE-compliant switch or PoE injector to the 2.5G ETH (PoE IN) port on the EAP770. This method provides both power and data connectivity through a single cable.
- **DC Power:** Connect the included power adapter to the 12V DC port on the EAP770 and plug it into a standard electrical outlet.

Superior Wi-Fi Experience

- ✓ Up to 11 Gbps
- ✓ Up to 380+ Concurrent Connections
- ✓ Seamless Roaming
- ✓ MLO for Low Latency

5765 Mbps



6 GHz

4324 Mbps



5GHz

688 Mbps



2.4GHz

Figure 4.2: Rear view of the EAP770 showing the 2.5G ETH (PoE IN) and 12V DC ports.

Up to 380+ Concurrent Connections**



Figure 4.3: Detailed view of the EAP770's underside, highlighting the 2.5G Ethernet port and DC power input for easy installation.

4.3 Network Connection and Configuration

Connect the EAP770 to your network via the 2.5G Ethernet port. For initial setup and ongoing management, the EAP770 integrates with the Omada Cloud Management Platform. This platform offers centralized control, remote configuration, and advanced network monitoring features.

- **Omada App:** Download the Omada app for easy setup and management from your mobile device.
- **Omada Controller:** For more extensive deployments, use a dedicated Omada Hardware Controller (OC200/OC300) or the Omada Software Controller.

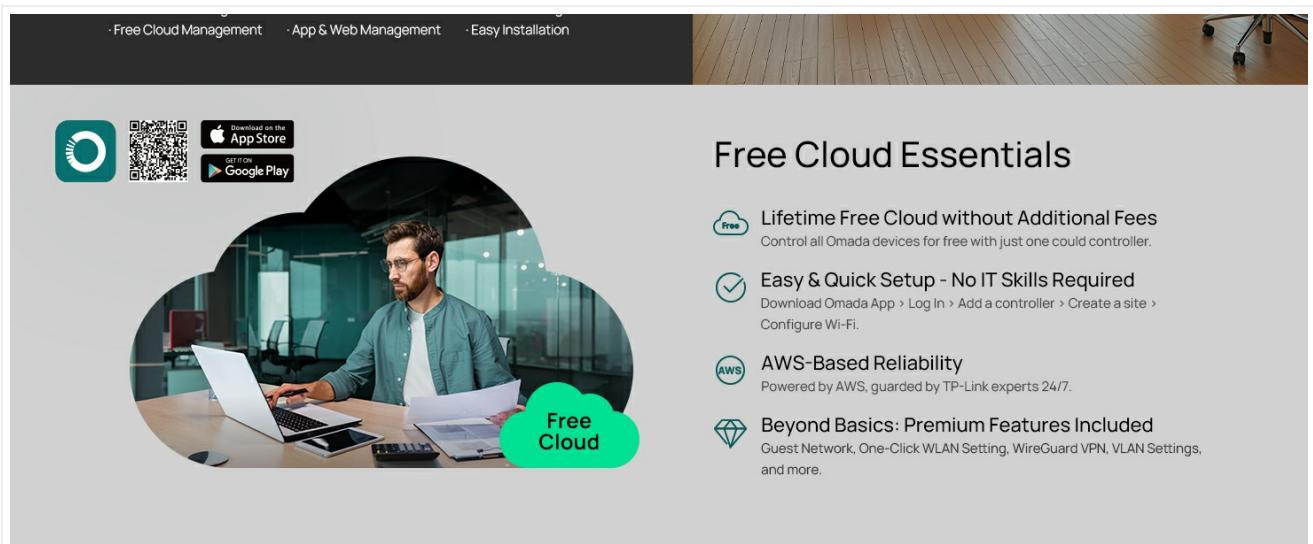


Figure 4.4: The Omada Cloud Management Platform provides a centralized interface for network configuration and monitoring.

Scan the QR code below to download the Omada app for simplified setup and management:

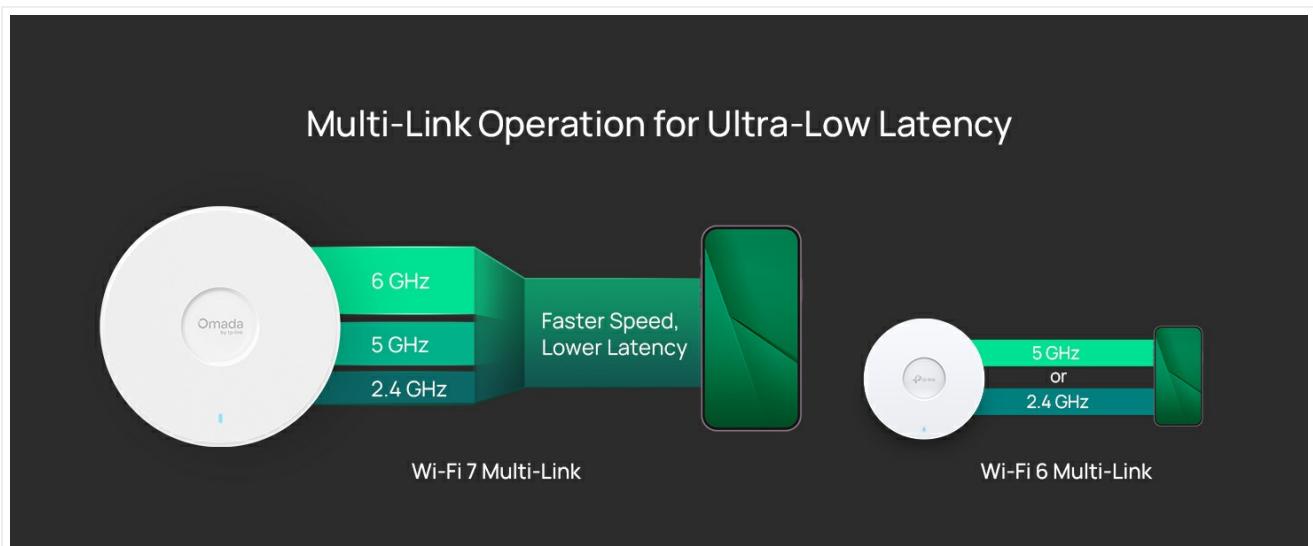


Figure 4.5: QR code for quick access to the Omada app download page, enabling easy setup and management.

5. OPERATING INSTRUCTIONS

5.1 Wireless Performance

The EAP770 leverages Wi-Fi 7 technology to deliver exceptional wireless speeds and efficiency across three distinct bands: 6GHz, 5GHz, and 2.4GHz. Key features include:

- **Tri-Band Operation:** Simultaneous operation on 6GHz (up to 5765 Mbps), 5GHz (up to 4324 Mbps), and 2.4GHz (up to 688 Mbps) bands for a total of up to 11.0 Gbps.

- **Multi-Link Operation (MLO):** Enhances reliability and reduces latency by allowing devices to transmit and receive data over multiple bands and channels simultaneously.
- **320MHz Bandwidth (6GHz):** Provides wider channels for higher data throughput.
- **4K-QAM:** Increases data density for 120% more data capacity compared to previous Wi-Fi standards.

Omada | Wi-Fi 7
by tp-link



Ultra-Fast BE11000 Wi-Fi 7 Access Point with 2.5G PoE

EAP770 | Integrated with Omada SDN solution – Free and Remote Cloud Management & Easy Setup

• 6-Stream Wi-Fi 7	• Up to 11 Gbps	• 1x 2.5GbE Port
• Seamless Roaming	• PoE Powered	• Remote Management



Figure 5.1: Comparison of Wi-Fi 7 speeds on the EAP770 against previous Wi-Fi standards, highlighting significant performance improvements.

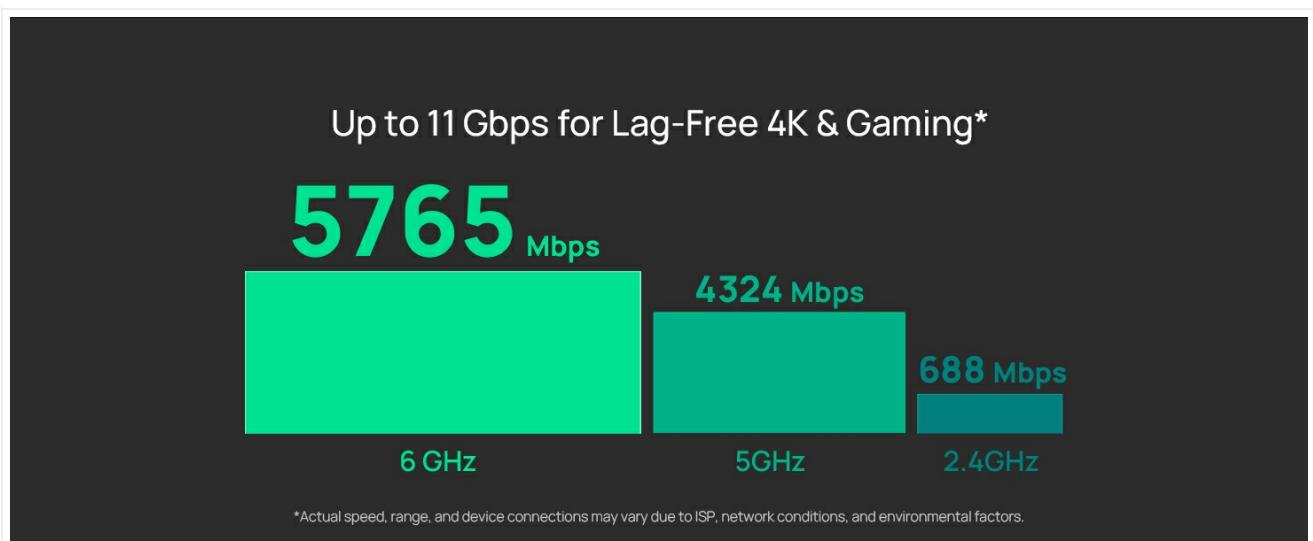
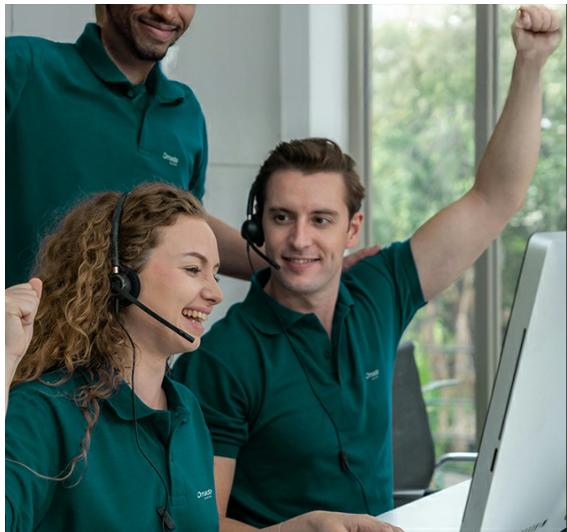


Figure 5.2: Breakdown of maximum theoretical speeds for the EAP770 across its 6GHz, 5GHz, and 2.4GHz frequency bands.





5-Year Warranty & US-Based Call Center Support

- ✓ Localization Sales and Support Team
- ✓ Dedicated Omada Support Portal
- ✓ Official Omada Community
- ✓ Contact us via Call, Email, or Chat

Figure 5.3: Illustration of Multi-Link Operation (MLO) in Wi-Fi 7, showing how it enables faster speeds and lower latency compared to Wi-Fi 6.

5.2 Network Capacity and Coverage

The EAP770 is engineered to handle high-density environments, supporting over 380 concurrent devices. Its robust design ensures broad coverage, making it suitable for large homes, offices, and commercial spaces.

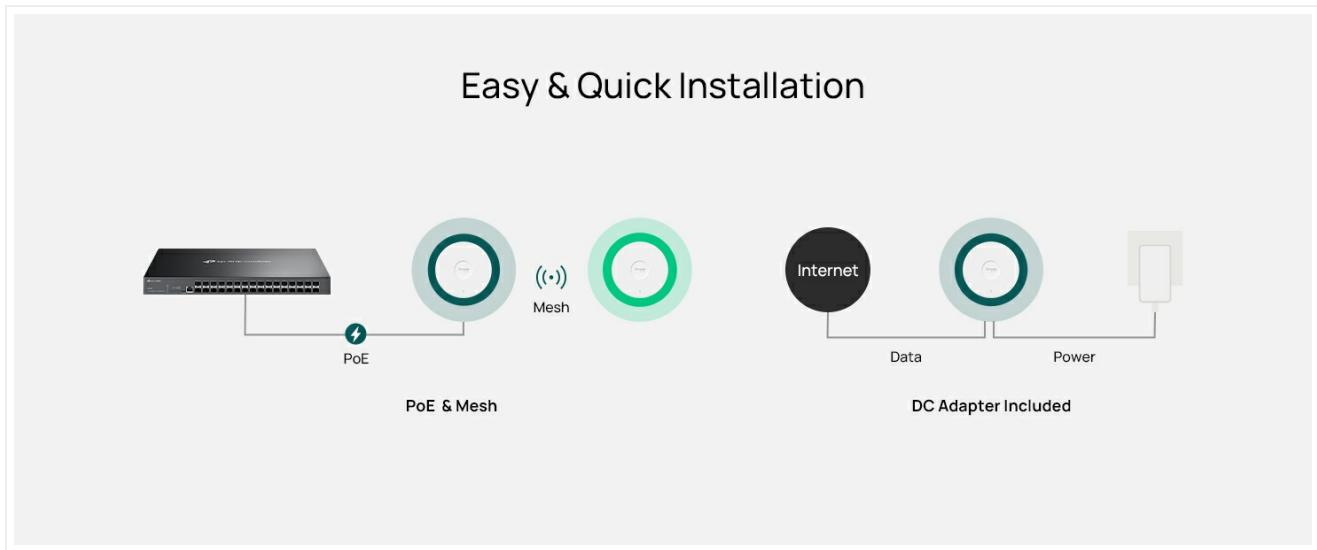


Figure 5.4: The EAP770 efficiently manages connections for over 380 concurrent devices, ensuring stable performance across various client types.

5.3 Seamless Roaming and Mesh Networking

When deployed as part of an Omada mesh network, the EAP770 provides seamless roaming, allowing users to move between access points without experiencing drops in connectivity. This creates a unified and uninterrupted wireless experience.

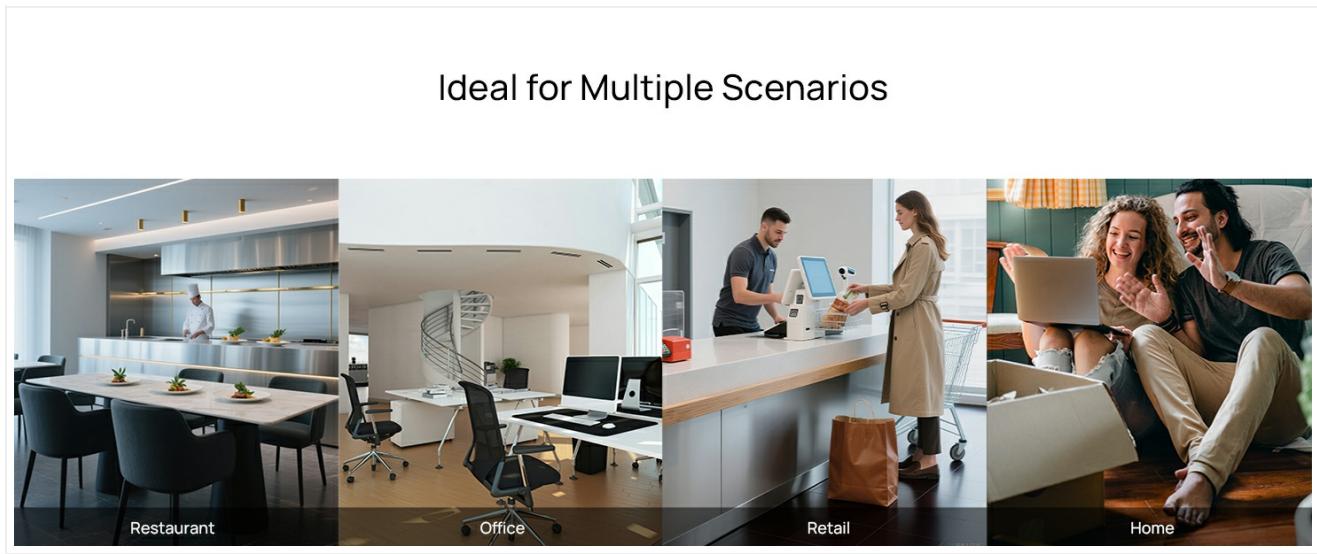


Figure 5.5: Diagram illustrating seamless Wi-Fi coverage and connectivity within a multi-AP Omada mesh network.

5.4 Advanced Network Features

Through the Omada Cloud Management Platform, the EAP770 offers a suite of advanced networking features:

- **Network Monitoring:** Real-time insights into network performance and client activity.
- **VLAN Segmenting:** Create separate virtual networks for enhanced security and traffic management.
- **Bandwidth Management:** Control bandwidth allocation for different users or applications.

- **Schedule Setup:** Automate Wi-Fi availability based on time schedules.
- **Security Features:** WPA3 encryption, rogue AP detection, and other robust security protocols.
- **PPSK (Private Pre-Shared Key):** Provides unique Wi-Fi passwords for individual users or devices, simplifying access control.

6. MAINTENANCE

6.1 Firmware Updates

Regularly update the EAP770's firmware to ensure optimal performance, security, and access to new features. Firmware updates can typically be managed directly through the Omada Cloud Management Platform or the Omada app, often without the need for manual file downloads.

6.2 Physical Care

Keep the access point clean and free from dust. Ensure proper ventilation around the device to prevent overheating, especially when ceiling-mounted. Avoid exposing the device to extreme temperatures or humidity.

7. TROUBLESHOOTING

7.1 No Power or Connectivity

- Verify that the power adapter is securely connected to the EAP770 and a working power outlet, or that the PoE source is active and connected to the 2.5G ETH (PoE IN) port.
- Check the Ethernet cable connection between the EAP770 and your network switch or router. Ensure the cable is not damaged.

7.2 Wi-Fi Connection Issues

- **Weak Signal:** Ensure the EAP770 is placed in a central location, away from obstructions like thick walls or large metal objects.
- **Band Steering:** If experiencing intermittent connectivity or slow speeds when moving between bands (2.4GHz, 5GHz, 6GHz), check the band steering settings in your Omada controller. Adjusting these settings or ensuring the latest firmware can improve performance.
- **Cannot Connect:** Verify the Wi-Fi password and network name (SSID). Ensure the EAP770 is properly adopted and configured in your Omada controller.

7.3 Omada Controller Not Detecting EAP770

- Ensure the EAP770 is powered on and connected to the same network as your Omada controller.
- Check firewall settings on your network that might be blocking communication between the EAP770 and the controller.
- Try resetting the EAP770 to factory defaults using the reset button (refer to the Installation Guide for location).

8. WARRANTY & SUPPORT

8.1 5-Year Limited Warranty

The TP-Link Omada EAP770 comes with a 5-year limited warranty, ensuring peace of mind regarding product quality and reliability. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

For technical assistance, product information, or warranty inquiries, TP-Link offers comprehensive support resources:

- **Localization Sales and Support Team:** Access local support for region-specific assistance.
- **Dedicated Omada Support Portal:** Visit the official Omada support website for FAQs, documentation, and firmware downloads.
- **Official Omada Community:** Engage with other users and experts for shared knowledge and solutions.
- **Contact Options:** Reach out to TP-Link support via call, email, or chat for direct assistance.