TP-Link EAP613

TP-Link EAP613 AX1800 Wireless Access Point User Manual

Model: EAP613

1. Introduction

This manual provides detailed instructions for the installation, configuration, and operation of your TP-Link EAP613 AX1800 Wireless Access Point. The EAP613 is designed to deliver high-speed Wi-Fi 6 connectivity, integrating seamlessly into the Omada Software Defined Networking (SDN) platform for centralized management.

Figure 1: TP-Link EAP613 AX1800 Wireless Access Point

2. Key Features

- **Ultra-Fast Wi-Fi 6 Speeds:** The EAP613 supports dual-band Wi-Fi 6 (802.11ax) technology, offering speeds up to 1800 Mbps (1201 Mbps on 5 GHz and 574 Mbps on 2.4 GHz). This is achieved through technologies like 1024-QAM and Long OFDM Symbol, enhancing throughput for multiple users.
- **Ultra-Slim Design:** Its compact and elegant design allows for discreet installation in various environments such as offices, hotels, classrooms, or cafes.
- **Integrated into Omada SDN:** The device is part of the Omada Software Defined Networking (SDN) platform, enabling centralized management of access points, switches, and gateways. Control options include Omada Hardware Controller, Software Controller, or Cloud-based Controller. Standalone mode is also supported.
- **Cloud Access & Omada Compatibility:** Remote cloud access and the Omada app facilitate centralized network management from any location, at any time.
- **Advanced Wireless Technologies:** Features include Mesh Wi-Fi, Seamless Roaming (requires Omada SDN

controllers), WPA3 encryption for enhanced security, Band Steering, Load Balancing, Airtime Fairness, and Beamforming.

- **PoE+ for Easy Installation:** Supports 802.3at PoE+ and 48V/0.5A Passive PoE (e.g., TP-Link TL-PoE4824G) for flexible deployment without the need for a separate DC power adapter (DC adapter not included). A 12V/1A DC power supply option is also available.

Figure 2: Wi-Fi 6 Speed Capabilities of EAP613

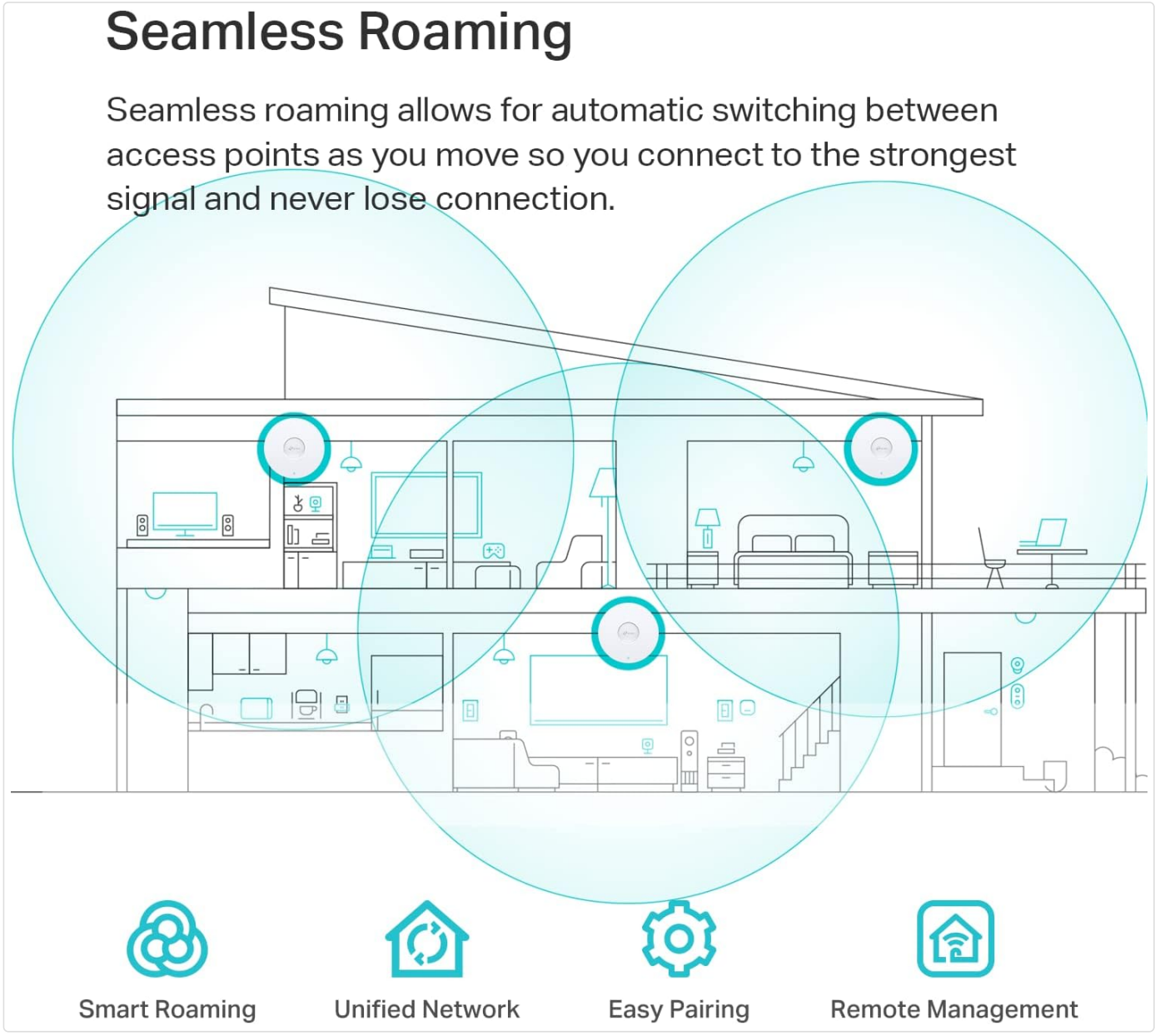


Figure 3: Seamless Roaming Functionality

3. Package Contents

Verify that your package contains the following items:

- EAP613 Wireless Access Point
- Ceiling/Wall Mounting Kits
- Installation Guide

Note: A DC power adapter is not included in the package. The EAP613 is primarily designed for Power over Ethernet (PoE+) deployment.

4. Setup and Installation

4.1 Powering the Device

The EAP613 can be powered using one of the following methods:

- **802.3at PoE+ Switch:** Connect an Ethernet cable from an 802.3at compliant PoE+ switch to the EAP613's Ethernet

port. This method provides both power and data connectivity.

- **48V/0.5A Passive PoE Adapter:** Use a compatible passive PoE adapter (e.g., TP-Link TL-PoE4824G) to supply power through the Ethernet cable.
- **12V/1A DC Power Adapter:** If PoE is not available, a 12V/1A DC power adapter (not included) can be connected to the DC power input port.

Figure 4: EAP613 Power and Port Overview

4.2 Mounting the Access Point

The EAP613 is designed for ceiling or wall mounting. Refer to the included Installation Guide for detailed steps on using the mounting kits.

1. Choose a suitable location for optimal Wi-Fi coverage.
2. Use the mounting bracket as a template to mark drill holes on the ceiling or wall.
3. Install the anchors and screws, then attach the mounting bracket.
4. Connect the Ethernet cable (and DC power if not using PoE) to the EAP613.
5. Align the EAP613 with the mounting bracket and twist to secure it in place.

Figure 5: Deployment with PoE+ or Mesh

5. Operation

5.1 Omada SDN Integration

The EAP613 can be managed as part of the Omada SDN ecosystem. This allows for centralized control of your network devices.

- **Omada Hardware Controller:** A dedicated hardware device for managing your Omada network.
- **Omada Software Controller:** Software that can be installed on a PC or server for network management.
- **Omada Cloud-Based Controller:** A cloud service for remote management (contact TP-Link for details on compatible models and availability).
- **Standalone Mode:** The EAP613 can also operate independently without an Omada controller for basic functionality.

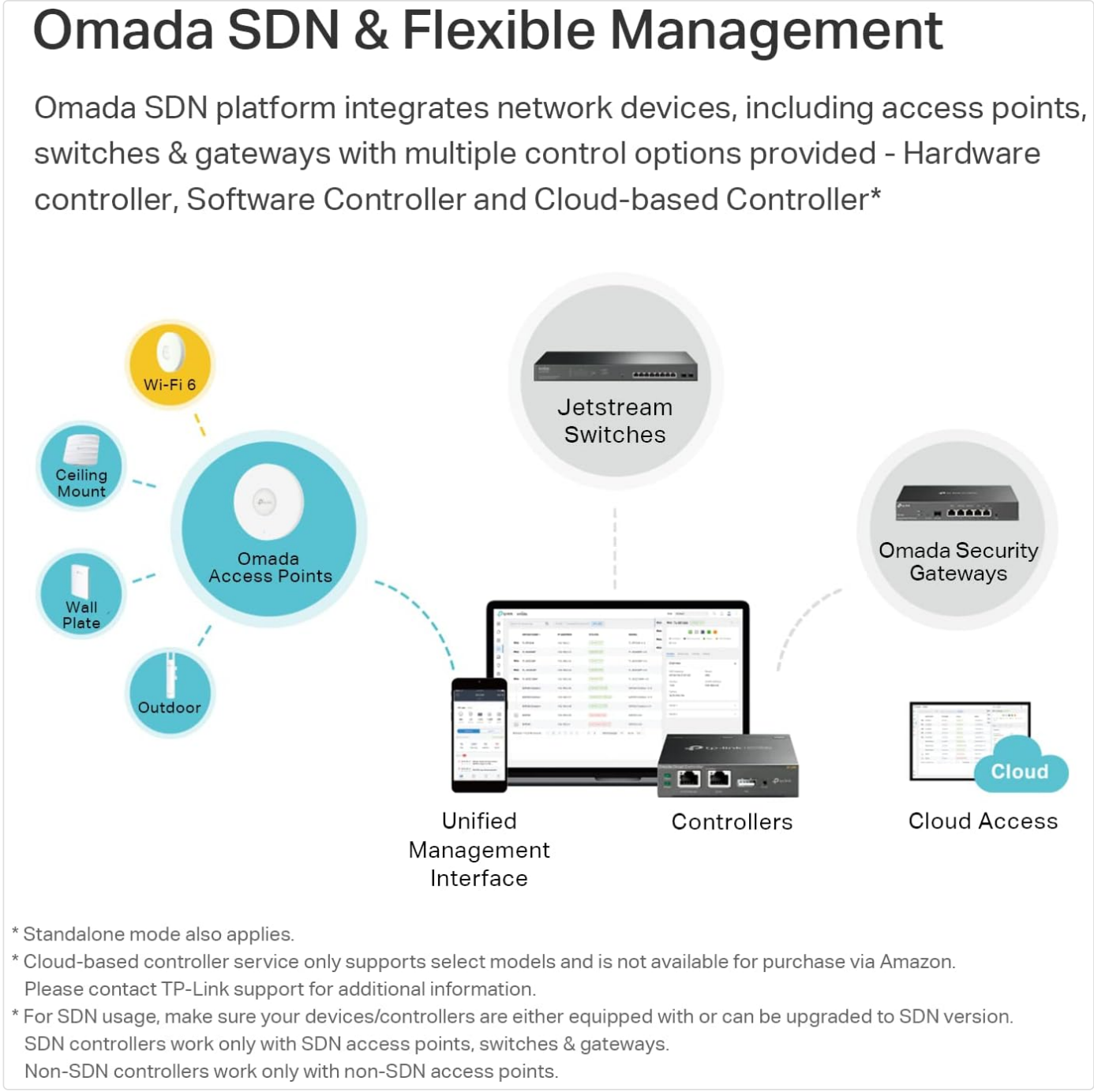


Figure 6: Omada SDN Platform Overview

5.2 Remote Management via Omada App

The Omada app provides convenient remote management of your network. Download the app from your device's app store.

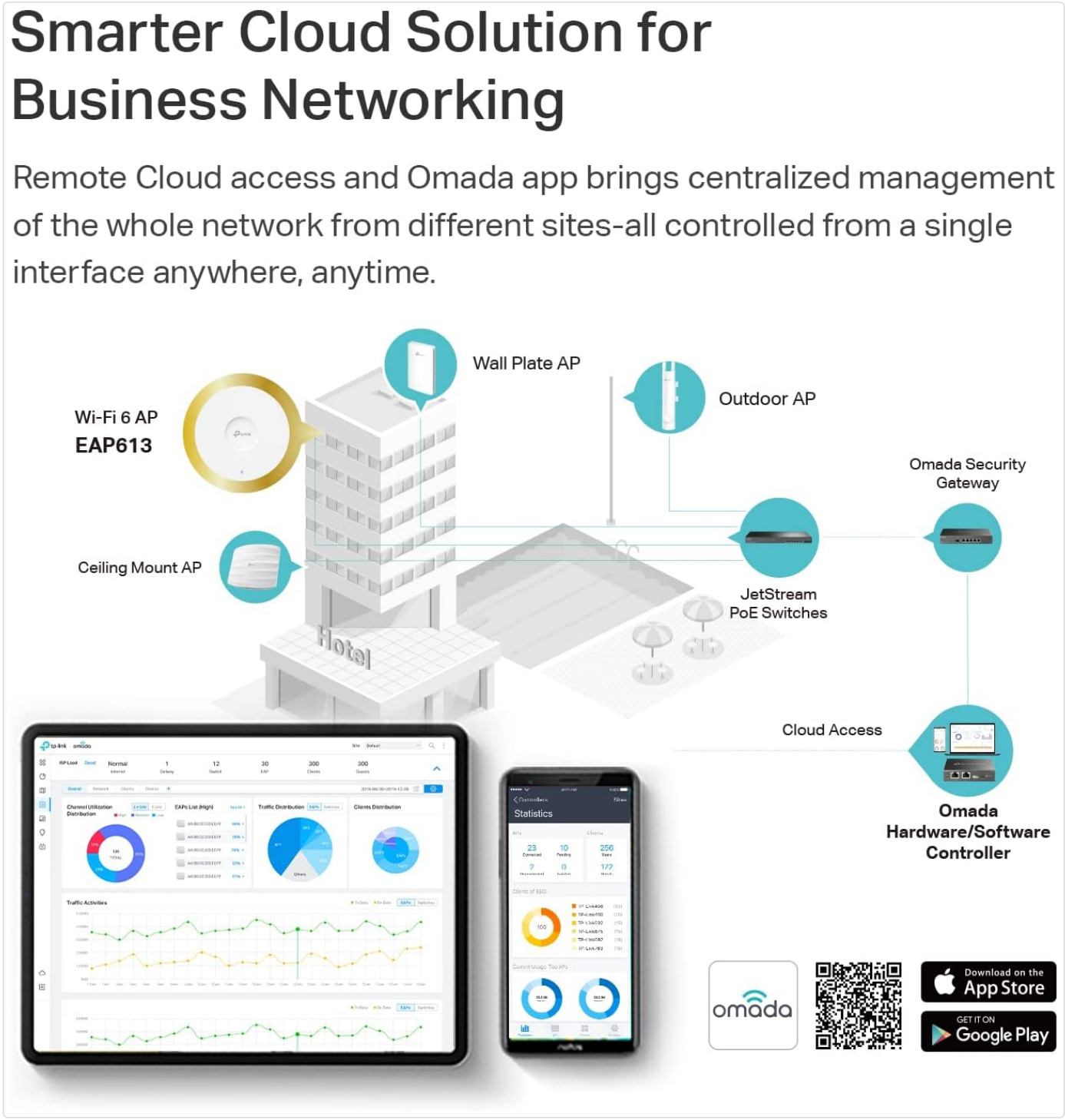


Figure 7: Omada Cloud Solution and App Management

Download the Omada app: tp-link.com/common/app/omada/qrcode.php

5.3 Network Configuration Example

The EAP613 can be deployed in various network configurations, including structured wiring setups for homes or businesses.

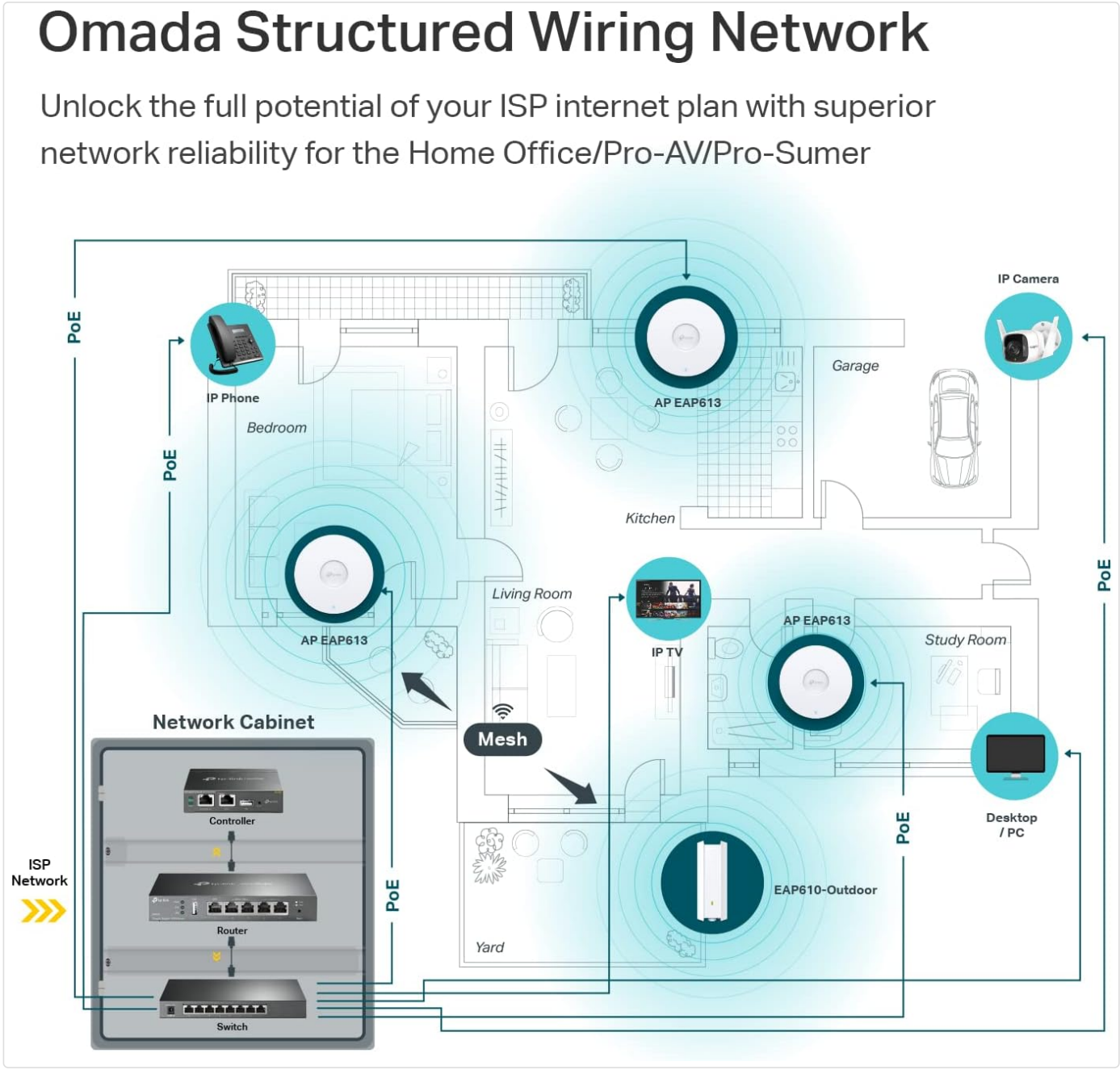


Figure 8: Example Omada Structured Wiring Network

6. Maintenance

- **Firmware Updates:** Regularly check the TP-Link website for the latest firmware updates to ensure optimal performance and security.
- **Cleaning:** Keep the device clean and free from dust. Use a soft, dry cloth for cleaning.
- **Environmental Conditions:** Ensure the device is operated within its specified temperature and humidity ranges to prevent damage.
- **Security:** Use strong, unique passwords for your Wi-Fi networks and Omada controller. Enable WPA3 encryption for enhanced security.

7. Troubleshooting

7.1 Common Issues and Solutions

- **No Power:**

- Ensure the Ethernet cable is securely connected to a PoE+ source or a compatible DC power adapter is used.
- Verify the PoE+ switch or power adapter is functioning correctly.

- **No Wi-Fi Signal:**
  - Check if the EAP613 is powered on and its LED indicator is active.
  - Confirm that the EAP613 is properly configured via the Omada controller or in standalone mode.
  - Ensure your client devices are within range and have the correct Wi-Fi password.
- **Slow Wi-Fi Speed:**
  - Check for interference from other wireless devices or obstacles.
  - Ensure the EAP613 is connected to a gigabit Ethernet port.
  - Update the EAP613 firmware to the latest version.
  - Consider adjusting channel settings or enabling features like Band Steering.
- **Cannot Access Omada Controller:**
  - Verify network connectivity between the EAP613 and the controller.
  - Ensure the controller software/hardware is running and accessible.
  - Check firewall settings on the controller host.

8. Specifications

Model	EAP613
Wireless Standards	IEEE 802.11ax/ac/n/g/b/a
Frequency	2.4 GHz and 5 GHz (Dual-Band)
Wireless Speeds	1201 Mbps (5 GHz), 574 Mbps (2.4 GHz) - Total 1775 Mbps (AX1800)
Ethernet Port	1x Gigabit Ethernet Port (RJ-45)
Power Supply	802.3at PoE+ or 48V/0.5A Passive PoE or 12V/1A DC (DC adapter not included)
Dimensions (W x D x H)	6.3 x 6.3 x 1.32 inches (160 x 160 x 33.6 mm)
Mounting	Ceiling/Wall Mounting (Kits Included)
Wireless Features	Mesh Wi-Fi, Seamless Roaming, WPA3, Band Steering, Load Balancing, Airtime Fairness, Beamforming, MU-MIMO, OFDMA
Management	Omada App, Cloud Access, Omada Hardware Controller, Omada Software Controller, Standalone Mode

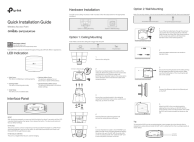
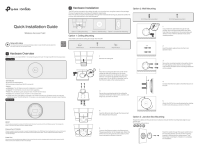
9. Warranty and Support

The TP-Link EAP613 AX1800 Wireless Access Point is backed by a**5-year warranty**.
For technical support, warranty claims, and additional product information, please visit the official TP-Link website: www.tp-link.com. You can also find FAQs, firmware updates, and community forums there.

Legal Disclaimer

1. Maximum wireless transmission rates are the physical rates derived from IEEE Standard 802.11 specifications. Range and coverage specifications are based upon test results under normal usage conditions. Actual wireless transmission rate and wireless coverage are not guaranteed and will vary as a result of 1) environmental factors, including building materials, physical objects and obstacles, 2) network conditions, including local interference, volume and density of traffic, product location, network complexity, and network overhead and 3) client limitations, including rated performance, location, connection quality, and client condition.
2. Actual network speed may be limited by the rate of the product's Ethernet WAN or LAN port, the rate supported by the network cable, Internet service provider factors and other environmental conditions.

Related Documents - EAP613

	TP-Link Deco M4 AC1200 Whole Home Mesh Wi-Fi System | Features, Specs, and Overview Discover the TP-Link Deco M4 AC1200 Whole Home Mesh Wi-Fi System. Learn about its features like seamless roaming, parental controls, assisted setup, and robust specifications for fast, stable internet coverage throughout your home. Includes details on hardware, wireless, and software capabilities.
	TP-Link EAP225/EAP245 Omada Wireless Access Point Quick Installation Guide This guide provides essential steps for installing and configuring TP-Link Omada EAP225 and EAP245 Wireless Access Points. It covers hardware mounting options (ceiling and wall), power supply methods, and software setup in both Standalone and Controller modes.
	TP-Link BBA Mesh User Guide Comprehensive user guide for TP-Link BBA Mesh devices, covering setup, configuration, network management, and advanced features for seamless whole-home Wi-Fi coverage.
	TP-Link Deco E4 AC1200 Whole Home Mesh WiFi System | Features & Specifications Discover the TP-Link Deco E4, an AC1200 Whole Home Mesh WiFi System designed to eliminate dead zones, provide seamless roaming, and offer robust parental controls. Learn about its features, specifications, and how it simplifies your home network.
	TP-Link Omada Wireless Access Point Quick Installation Guide This guide provides instructions for installing and configuring TP-Link Omada Wireless Access Points. It covers hardware overview, mounting options (ceiling, wall, junction box), power supply methods (PoE, adapter), and software setup in both standalone and controller modes.

	[TP-Link Deco E4 AC1200 Whole Home Mesh Wi-Fi System] The TP-Link Deco E4 is an AC1200 Whole Home Mesh Wi-Fi System designed to eliminate Wi-Fi dead zones and provide seamless, fast, and stable internet coverage throughout your home. It features easy setup via the Deco app, robust parental controls, and supports up to 100 devices. The system offers two modes: Router and Access Point, and can be expanded by adding more Deco units.