TP-Link EAP660 HD

TP-Link Omada EAP660 HD AX3600 WiFi 6 Access Point User Manual

Model: EAP660 HD

1. Introduction

The TP-Link Omada EAP660 HD is an AX3600 WiFi 6 Wireless Access Point designed for high-density environments. It integrates with the Omada Software Defined Networking (SDN) platform, offering centralized cloud management for various network devices. This access point provides ultra-fast Wi-Fi 6 speeds, enhanced capacity through OFDMA and MU-MIMO, and supports seamless roaming for uninterrupted connectivity.

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your EAP660 HD access point.

2. Package Contents

Verify that your package contains the following items:

- EAP660 HD Access Point
- Power Adapter
- Ceiling/Wall Mounting Kits
- Installation Guide

3. Product Overview

The EAP660 HD is a circular, white access point designed for discreet ceiling or wall mounting. It features a 2.5 Gigabit Ethernet port with PoE+ support for both data and power transmission.

Image Description: A top-down view of the white, circular TP-Link Omada EAP660 HD Access Point. The TP-Link logo is centered on the device, and a small blue LED indicator light is visible at the bottom.

4. Setup and Installation

The EAP660 HD supports flexible deployment options, including ceiling and wall mounting. It can be powered via a standard 802.3at PoE+ switch or injector, simplifying installation by eliminating the need for a separate power outlet near the device.

4.1 Powering the Device

Connect an Ethernet cable from a PoE+ enabled switch or injector to the 2.5GE port on the EAP660 HD. The device will power on automatically.

4.2 Mounting

Use the included mounting kits to securely attach the access point to a ceiling or wall. Refer to the detailed Installation Guide provided in your package for specific steps and safety precautions.

4.3 Initial Configuration

The EAP660 HD can be managed in two primary modes:

- **Standalone Mode:** Configure the access point directly via its web interface.
- **Omada SDN Integration:** For centralized management, integrate the EAP660 HD into an Omada SDN network using a Hardware Controller, Software Controller, or Cloud-based Controller. This is recommended for multi-device deployments.

For detailed configuration instructions, consult the official TP-Link Omada documentation or the User Guide PDF.

Image Description: A diagram illustrating two deployment methods for the EAP660 HD. On the left, two access points are connected wirelessly via a mesh connection. On the right, an access point is powered and connected via an Ethernet cable to a PoE switch, with the text "Power over ethernet cable" indicating the connection.

5. Operation

The EAP660 HD leverages advanced Wi-Fi 6 technologies to deliver high-performance wireless connectivity.

5.1 Wi-Fi 6 Features

- **AX3600 Speeds:** Offers dual-band Wi-Fi speeds up to 3550 Mbps (2402 Mbps on 5GHz and 1148 Mbps on 2.4GHz).
- **OFDMA:** Improves network efficiency and reduces latency for multiple devices.
- **MU-MIMO (Multi-User, Multiple-Input, Multiple-Output):** Allows the access point to communicate with multiple devices simultaneously, increasing throughput.
- **1024-QAM and Long OFDM Symbol:** Enhance data encoding and transmission speed.

Image Description: A diagram comparing the speeds and features of the EAP660 HD (Wi-Fi 6 AX3600) against a

standard AC EAP (Wi-Fi 5). It highlights 4x increased capacity, 5GHz speed of 2402 Mbps, 2.4GHz speed of 1148 Mbps, and features like Band Steering, Airtime Fairness, Load Balance, 1024 QAM, Long OFDM Symbol, UL/DL MU-MIMO, and OFDMA.

5.2 Mesh Technology and Seamless Roaming

When integrated into an Omada SDN network, the EAP660 HD supports Mesh technology and Seamless Roaming. This allows devices to automatically switch between access points as you move, ensuring a continuous and strong signal without connection drops.

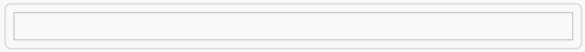

Image Description: A diagram illustrating mesh technology and seamless roaming within a multi-story building. Multiple Omada access points are shown providing Wi-Fi coverage, with arrows indicating automatic switching between them for a unified network and remote management.

5.3 Omada SDN Integration and Management

The Omada SDN platform unifies network devices, including access points, switches, and gateways, under a single management interface. This allows for centralized control and monitoring of your entire network.

- **Control Options:** Manage your network using a Hardware Controller, Software Controller, or a Cloud-based Controller.
- **Cloud Access:** Remote cloud access and the Omada app enable centralized cloud management from anywhere, anytime.

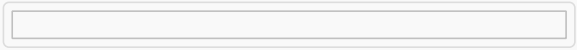

Image Description: A diagram showing the Omada SDN ecosystem. It depicts Omada Access Points (including Wi-Fi 6 models like EAP660 HD), Jetstream Switches, Omada Security Gateways, and various controllers (Hardware, Software, Cloud-based) all integrated into a Unified Management Interface. Cloud Access is also shown as part of the system.

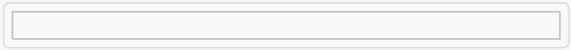

Image Description: An illustration of the Omada Cloud Solution for Business Networking. It shows various Omada devices (EAP660 HD, Wall Plate AP, Outdoor AP, JetStream PoE Switches, Omada Security Gateway) connected within a hotel environment, all managed remotely via a tablet and smartphone app. QR codes for the Omada app are also visible.

Download the Omada app for convenient management: TP-Link Omada App

6. Maintenance

Proper maintenance ensures the longevity and optimal performance of your EAP660 HD access point.

6.1 General Care

- Keep the device in a cool, dry environment, away from direct sunlight and heat sources.
- Clean the device periodically with a soft, dry cloth. Avoid using liquid cleaners or aerosols.
- Ensure proper ventilation around the device to prevent overheating.

6.2 Firmware Updates

Regularly update the device firmware to benefit from performance improvements, new features, and security enhancements. Firmware updates are typically managed through the Omada SDN Controller interface.

6.3 Scheduled Reboots

Consider configuring scheduled reboots through your Omada controller to maintain optimal performance and address potential minor issues proactively.

7. Troubleshooting

This section addresses common issues you might encounter with your EAP660 HD.

7.1 No Power/LED Indicator Off

- Ensure the Ethernet cable is securely connected to both the EAP660 HD and the PoE+ switch/injector.
- Verify that the PoE+ switch/injector is powered on and functioning correctly.
- If using the power adapter, ensure it is properly connected to the device and a working power outlet.

7.2 No Internet Connection

- Check the connection between the EAP660 HD and your router/gateway.
- Verify that your router/gateway has an active internet connection.
- Ensure the EAP660 HD is properly configured (e.g., correct IP settings, SSID broadcast).

7.3 Poor Wi-Fi Performance/Slow Speeds

- Check for sources of interference (e.g., microwaves, cordless phones, neighboring Wi-Fi networks).
- Ensure the access point is optimally placed, avoiding obstructions.
- Verify that your client devices support Wi-Fi 6 for optimal performance.
- If using Omada SDN, check channel utilization and adjust Wi-Fi settings (e.g., channel, channel width, transmit power).

7.4 Omada SDN Compatibility Issues

For SDN usage, ensure your Omada devices/controllers are either equipped with or can be upgraded to an SDN-compatible firmware version. SDN controllers work only with SDN APs, Switches, and Gateways. Non-SDN controllers work only with non-SDN APs. Refer to the TP-Link website for a list of compatible devices and firmware versions.

8. Specifications

Feature	Detail
Brand	TP-Link
Model Name	EAP660 HD
Wireless Type	802.11ac, 802.11ax (Wi-Fi 6), 802.11b, 802.11g, 802.11n
Frequency Band Class	Dual-Band
Connectivity Technology	Ethernet, Wi-Fi
Operating System	Omada SDN
Item Weight	1.94 pounds

Feature	Detail
Product Dimensions	9.59 x 9.59 x 2.5 inches
Voltage	12 Volts (DC)
Color	White
Special Feature	Access Point Mode, WPS
Recommended Uses	Business

9. Warranty and Support

The TP-Link Omada EAP660 HD is backed by a limited lifetime warranty. TP-Link also provides free 24/7 technical support for its products.

For technical assistance, warranty claims, or additional product information, please visit the official TP-Link website or contact their customer support.

- **TP-Link Official Website:** www.tp-link.com
- **Support Contact:** Refer to the support section on the TP-Link website for regional contact information.

10. Legal Information

10.1 Legal Disclaimer

1. Maximum wireless transmission rates are 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.