# TP EAP650

TP-Link EAP650 AX3000 Ceiling Mount WiFi 6 Access Point

## Product Overview

TP-Link EAP650 AX3000 Ceiling Mount Wifi 6 Access Point, 1x Gigabit Ethernet (RJ-45) Port, 802.3at PoE, 5GHz up to 2402 Mbps, 2.4GHz up to 574 Mbps, Powered via 802.3at PoE+ or included 12V DC Adapter, Omada SDN integration for centralized Cloud Management











## Specifications

### Overview Summary:

Upgrade your business network with the TP-Link EAP650, an ultra-slim AX3000 Ceiling Mount WiFi 6 Access Point tailored for South African enterprises seeking reliable high-speed connectivity. This advanced device delivers exceptional performance with combined speeds up to 2976 Mbps, ensuring smooth video streaming and lag-free operations even when multiple devices are connected simultaneously.

Ideally suited for offices, hotels, schools, and shopping malls, the EAP650 integrates seamlessly with Omada SDN for centralized cloud management. Its intelligent features like automatic channel selection and seamless roaming guarantee uninterrupted service as users move through your premises. Secure your network infrastructure today by buying now to experience next-generation WiFi efficiency.

**Performance tier:**Business Grade

**Uses:**Office networking, Hotel guest access, School campus coverage, Shopping mall marketing, Meeting room video conferencing

### Overview:

**TP-Link EAP650 High-Speed WiFi 6 Ceiling Access Point**
The TP-Link EAP650 (Part Number: TP EAP650 ) is a premium AX3000 ceiling mount WiFi 6 access point designed to deliver ultra-fast wireless speeds and reliable connectivity for modern businesses. By integrating the latest IEEE 802.11ax standards, this device ensures that even with dozens of connected devices, users experience minimal lag and maximum throughput. Its compact, ultra-slim design allows it to blend seamlessly into professional environments like offices, hotels, and classrooms without compromising on performance or aesthetic appeal.

This versatile access point supports both 802.3at PoE+ power injection for clean installations requiring a single Ethernet cable and includes a DC adapter for standalone setups. Whether used in a small office or a large enterprise network managed via Omada SDN, the EAP650 offers centralized cloud management, seamless roaming capabilities, and intelligent interference reduction to keep your network running smoothly at all times.

### Description:

The TP-Link EAP650 transforms your business infrastructure with lightning-fast AX3000 speeds reaching up to 2976 Mbps combined. Key benefits include support for 160 MHz channels that double data transmission rates, seamless roaming technology that maintains video and voice calls as users move between rooms, and an ultra-slim profile measuring only 33.6 mm in height for unobtrusive ceiling mounting. It features intelligent Omada Mesh capabilities to extend coverage wirelessly where wiring is difficult, along with automatic channel selection to optimize performance by minimizing WiFi interference.

### Features:

**Key Performance Highlights**

- Simultaneous AX3000 speeds delivering 2402 Mbps on the 5 GHz band and 574 Mbps on the 2.4 GHz band for a total of nearly 3 Gbps throughput
- Advanced WiFi 6 technologies including 1024-QAM, OFDMA, and MU-MIMO to handle high-density device environments efficiently
- Seamless roaming ensures uninterrupted streaming and voice calls as clients switch between access points automatically
- Omada SDN integration allows for centralized management via web UI or mobile app across local or cloud networks

- PoE+ powered design supports flexible installation with 802.3at PoE injection or the included power adapter

**Ideal Applications and Use Cases**
This access point is engineered to meet the demanding requirements of various industries, ensuring stability and security where it matters most. In hospitality settings, it provides high-quality guest WiFi with full coverage, while educational institutions benefit from high-security networks capable of connecting numerous student devices simultaneously. Retail environments can leverage seamless marketing capabilities to boost customer engagement, and office spaces enjoy stable connections for video conferencing and large file transfers.

The device also excels in meeting rooms where fast streaming and downloading are critical for productivity. Its ability to automatically adjust transmission power and channel settings reduces interference with neighboring networks, ensuring optimal performance without manual intervention from network administrators.

## Technical Specifications:

- Wireless Standards: IEEE 802.11ax/ac/n/g/b/a supporting both 2.4 GHz and 5 GHz frequencies
- Interface: 1x Gigabit Ethernet RJ-45 port with support for IEEE 802.3at PoE
- Antenna Type: Internal Omni-directional antennas (2x 4 dBi for 2.4 GHz, 2x 5 dBi for 5 GHz)
- Dimensions: 160 x 160 x 33.6 mm (6.3 x 6.3 x 1.3 inches) with an elegant circular design
- Power Supply: Supports 802.3at PoE or 12V DC power adapter included in the box
- Mounting Options: Ceiling, wall, or junction box mounting kits included for easy deployment

## Security and Management Features:

Network security is paramount with the EAP650 offering robust protections including WPA3-Personal/Enterprise support, 802.1X authentication, and rogue AP detection to safeguard against unauthorized access. Administrators can utilize multiple SSIDs (up to 16) to segment traffic effectively, while features like captive portal authentication allow for branded login experiences for guests.

Management is simplified through the Omada ecosystem, supporting hardware controllers like OC300 and OC200, software controllers, or cloud-based management platforms. Additional capabilities include zero-touch provisioning, SNMP v1/v2c/v3 support, system logging, SSH access, and LED control to tailor visibility based on installation needs.

**What's in the box**

- EAP650 WiFi 6 Access Point Unit
- Power Adapter (12V DC)
- Ceiling/Wall Mounting Kits with screws and anchors
- Junction Box mounting hardware
- Installation Guide for quick setup

The TP-Link EAP650 stands as a reliable solution for businesses requiring high-performance wireless connectivity. With its blend of cutting-edge WiFi 6 technology, flexible power options, and intelligent management tools, it ensures your network remains fast, secure, and ready to scale with your growing needs.

## Specifications:

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| Specifications | |
|---|---|
| **Product Code** | TP EAP650 |

| HARDWARE FEATURES | |
|---|---|
| **Interface** | 1x Gigabit Ethernet (RJ-45) Port (supports IEEE802.3at PoE) |
| **Button** | Reset |
| **Power Supply** | 802.3at PoE |
| | 12V DC (Power Adapter included) |
| | (EU Version: 12 V / 1.0 A DC. US Version: 12 V / 1.5 A DC). |
| **Power Consumption** | EU: 13.5 W |
| | US: 14.7 W |
| **Dimensions ( W x D x H )** | 6.3 x 6.3 x 1.3 in (160 x 160 x 33.6 mm) |
| **Antenna Type** | Internal Omni |
| | 2.4 GHz: 2x 4 dBi |
| | 5 GHz: 2x 5 dBi |
| **Mounting** | Ceiling /Wall Mounting (Kits included) |
| | Junction Box Mounting |
| **WIRELESS FEATURES** | |
| **Wireless Standards** | IEEE 802.11ax/ac/n/g/b/a |
| **Frequency** | 2.4 GHz and 5 GHz |
| **Signal Rate** | 5 GHz: Up to 2402 Mbps |
| | 2.4 GHz: Up to 574 Mbps |

| | |
|---|---|
| **Wireless Functions** | 1024-QAM |
| | 4x Longer OFDM Symbol |
| | OFDMA |
| | Multiple SSIDs (Up to 16 SSIDs, 8 for each band) |
| | Enable/Disable Wireless Radio |
| | Automatic Channel Assignment |
| | Transmit Power Control (Adjust Transmit Power on dBm) |
| | QoS(WMM) |
| | MU-MIMO |
| | HE160 (160 MHz Bandwidth) |
| | Seamless Roaming |
| | Omada Mesh |
| | Band Steering |
| | Load Balance |
| | Airtime Fairness |
| | Beamforming |
| | Rate Limit |
| | Reboot Schedule |
| | Wireless Schedule |
| | Wireless Statistics based on SSID/AP/Client |
| **Wireless Security** | Captive Portal Authentication |
| | Access Control |
| | Wireless Mac Address Filtering |
| | Wireless Isolation Between Clients |
| | SSID to VLAN Mapping |
| | Rogue AP Detection |
| | 802.1X Support |
| | WPA-Personal/Enterprise, WPA2-Personal/Enterprise, WPA3-Personal/Enterprise |
| **Transmission Power** | CE: |
| | |
| | |
| | |
| | FCC: |
| | |
| | |
| **MANAGEMENT** | |
| **Omada App** | Yes |

| | |
|---|---|
| **Centralized Management** | Omada Hardware Controller (OC300) |
| | Omada Hardware Controller (OC200) |
| | Omada Software Controller |
| | Omada Cloud-Based Controller |
| **Cloud Access** | Yes. Requiring the use of OC300, OC200, Omada Cloud-Based Controller, or Omada Software Controller. |
| **Email Alerts** | Yes |
| **LED ON/OFF Control** | Yes |
| **Management MAC Access Control** | Yes |
| **SNMP** | v1, v2c, v3 |
| **System Logging Local/Remote Syslog** | Local/Remote Syslog |
| **SSH** | Yes |
| **Web-based Management** | HTTP/HTTPS |
| **L3 Management** | Yes |
| **Multi-site Management** | Yes |
| **Management VLAN** | Yes |
| **Zero-Touch Provisioning** | Yes. Requiring the use of Omada Cloud-Based Controller. |
| **OTHERS** | |
| **Certification** | CE, FCC, RoHS |
| **Package Contents** | EAP650 |
| | Power Adapter |
| | Ceiling/Wall Mounting Kits |
| | Installation Guide |
| **System Requirements** | Microsoft Windows XP, Vista, Windows 7, Windows 8, Windows10, Windows 11, Linux |
| **Environment** | Operating Temperature: 0-40 degreesC (32-104 degreesF) |
| | Storage Temperature: -40-70 degreesC (-40-158 degreesF) |
| | Operating Humidity: 10-90% RH non-condensing |
| | Storage Humidity: 5-90% RH non-condensing |

## FAQ

**What is the maximum WiFi speed of this TP-Link EAP650 access point?**
The device delivers AX3000 speeds with up to 2402 Mbps on the 5 GHz band and 574 Mbps on the 2.4 GHz band.

**Can I install this unit without running Ethernet cables for power or data?**
No, it requires a Gigabit Ethernet (RJ-45 ) port connection which can be powered via an included DC adapter or supported by an 802.3at PoE switch.

**How do I manage the network settings for multiple access points?**
The EAP650 integrates with Omada SDN, allowing centralized cloud management or local control through a web UI, mobile

app, or hardware controllers like the OC200 and OC300.

**Is this WiFi 6 AP suitable for high-density environments like offices or hotels?**
Yes, it is designed for business use with features like Auto Channel Selection to reduce interference, Seamless Roaming for uninterrupted video calls, and support for up to 16 SSIDs.

**What mounting options are available for the EAP650?**
The unit supports ceiling or wall mounting with included kits, as well as junction box mounting, thanks to its ultra-slim design that fits easily into modern spaces.

## Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

**Product page:**
**https://www.comx-computers.co.za/TP-EAP650-TP-Link-EAP650-AX3000-Ceiling-Mount-WiFi-6-Access-Point-p-342287.php**

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