TP EAP655-Wall

TP-Link EAP655-Wall AX3000 Wall Plate WiFi 6 Access Point

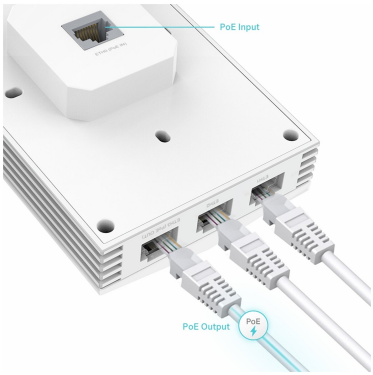
Product Overview

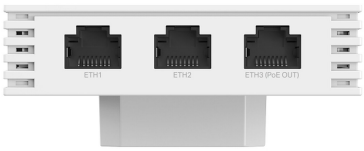
TP-Link EAP655-Wall AX3000 Wall Plate WiFi 6 Access Point; 2976 Mbps combined theoretical wireless speed; Dual-band 2.4 GHz and 5 GHz; 1 x Gigabit uplink; 3 x Gigabit downlink; PoE 802.3af/at; PoE pass-through; 16 SSIDs; WPA3 security; Omada SDN management; Wall-mounted design; 143 x 86 x 42.6 mm











Specifications

About this product

The TP-Link EAP655-Wall AX3000 Wall Plate WiFi 6 Access Point delivers high-speed dual-band wireless connectivity with combined speeds of up to 2976 Mbps, making it ideal for hotels, offices, apartments, guest rooms and business networks. Featuring WiFi 6 technology, four Gigabit Ethernet ports, Power over Ethernet (PoE) support and seamless integration with the Omada SDN platform, it provides efficient wireless access and wired network connectivity in a compact wall-mounted design. Manage your network centrally, configure secure guest access and connect multiple wired devices with ease. Buy the TP-Link EAP655-Wall online from our website for professional WiFi 6 networking in South Africa.

Overview Summary

TP-Link EAP655-Wall AX3000 Wall Plate WiFi 6 Access Point

The TP-Link EAP655-Wall is a business-grade AX3000 WiFi 6 access point designed to provide reliable, high-speed wireless connectivity in individual rooms and indoor network environments. Supporting simultaneous dual-band wireless transmission, it delivers speeds of up to 574 Mbps on the 2.4 GHz band and 2402 Mbps on the 5 GHz band, providing a combined theoretical wireless speed of 2976 Mbps.

Designed for convenient wall-mounted installation, the EAP655-Wall features four Gigabit Ethernet ports, including one uplink and three downlink ports. One downlink port supports PoE pass-through when powered by an 802.3at PoE+ input, allowing compatible wired devices to receive network connectivity and power. WiFi 6 technologies, including OFDMA, beamforming and 1024-QAM, help improve wireless network efficiency when multiple compatible devices are connected.

Integrated with TP-Link Omada SDN, this access point supports centralised network management, cloud access, guest authentication, VLAN configuration, WPA3 security and seamless roaming when used with compatible Omada controllers. Its wall-plate installation design makes it particularly suitable for hospitality environments, offices, apartments, student accommodation and meeting rooms.

Performance tier: Business-grade AX3000 WiFi 6 access point

Uses: Business wireless networking, hotel WiFi, office connectivity, apartment networking, student accommodation, guest WiFi, meeting rooms, wired device connectivity, enterprise wireless networks

Description

The TP-Link EAP655-Wall AX3000 Wall Plate WiFi 6 Access Point is designed to provide high-performance wireless networking in modern business and residential environments. Combining WiFi 6 technology, dual-band connectivity and an integrated four-port Gigabit Ethernet switch, it provides a practical networking solution for locations that require reliable wireless access alongside wired device connections.

AX3000 dual-band WiFi 6 connectivity

With support for IEEE 802.11ax WiFi 6, the EAP655-Wall delivers combined theoretical wireless speeds of up to 2976 Mbps. The 2.4 GHz band supports speeds of up to 574 Mbps, while the 5 GHz band provides speeds of up to 2402 Mbps. This dual-band configuration allows compatible wireless devices to connect using the frequency band best suited to their requirements.

WiFi 6 technologies such as OFDMA, 1024-QAM and BSS Coloring help improve network efficiency, particularly in environments where multiple wireless devices share the same network. Beamforming helps direct wireless signals towards connected devices, while band steering can help distribute compatible clients between the available frequency bands.

Four Gigabit Ethernet ports

The access point features four Gigabit Ethernet ports consisting of one uplink port and three downlink ports. This provides

additional wired connectivity for devices such as desktop computers, printers, VoIP phones and smart televisions. One of the downlink ports supports PoE pass-through, allowing a compatible device to receive power through its Ethernet connection.

PoE pass-through requires an 802.3at PoE+ input. The maximum PoE pass-through output is 10.5 W for the EU version and 10 W for the US version. This feature can help simplify installations where compatible low-power network devices need to be connected.

Convenient PoE installation

The EAP655-Wall supports IEEE 802.3af/at Power over Ethernet, allowing it to receive power and network connectivity through a single Ethernet cable when connected to a compatible PoE switch or power source. This reduces the need for a separate power connection at the installation point.

Its wall-plate design supports installation with 86 mm, standard EU and standard US wall junction boxes. This makes it suitable for room-by-room wireless deployments in hotels, offices, apartments and other indoor environments.

Centralised Omada SDN management

As part of the TP-Link Omada networking ecosystem, the EAP655-Wall supports centralised management through compatible Omada hardware, software and cloud-based controllers. Network administrators can configure wireless settings, monitor connected clients, manage multiple access points and maintain network settings through a central management platform.

Omada management features include automatic channel assignment, transmission power control, wireless scheduling, load balancing, airtime fairness, band steering and seamless roaming with compatible controllers and devices.

Advanced wireless security

Security features include WPA, WPA2 and WPA3 wireless encryption, 802.1X authentication, VLAN support, access control, wireless client isolation and rogue access point detection. Multiple SSIDs allow administrators to create separate wireless networks for different users and purposes, including guest access and business devices.

The TP-Link EAP655-Wall AX3000 is a suitable choice for businesses and property operators looking for a centrally managed WiFi 6 access point with integrated wired connectivity, PoE installation and professional network management capabilities.

Features

The TP-Link EAP655-Wall combines advanced wireless networking, convenient installation and professional network management in a compact wall-mounted access point.

- AX3000 WiFi 6 performance: Supports combined theoretical wireless speeds of up to 2976 Mbps, with 574 Mbps on 2.4 GHz and 2402 Mbps on 5 GHz.
- WiFi 6 technology: Supports OFDMA, 1024-QAM and BSS Coloring to improve wireless network efficiency with compatible devices.
- Dual-band wireless connectivity: Operates on both 2.4 GHz and 5 GHz frequency bands for flexible wireless device connectivity.
- Four Gigabit Ethernet ports: Includes one Gigabit uplink and three Gigabit downlink ports for wired network connections.
- PoE pass-through: One downlink port supports PoE output when the access point receives 802.3at PoE+ power.
- 802.3af/at PoE support: Receives network connectivity and electrical power through a compatible Ethernet connection.
- Wall-plate mounting: Designed for installation in 86 mm, standard EU and standard US wall junction boxes.
- Centralised Omada SDN management: Supports management through compatible Omada hardware, software and cloud-based controllers.
- Seamless roaming: Supports roaming between compatible Omada access points when configured with a compatible Omada controller.
- Multiple SSIDs: Supports up to 16 SSIDs, with up to 8 SSIDs on each frequency band.
- Advanced wireless security: Supports WPA, WPA2 and WPA3 Personal and Enterprise security, along with 802.1X authentication.
- Guest network functionality: Supports captive portal authentication and guest network management through compatible

Omada configurations.
- Beamforming: Helps direct wireless signals towards connected client devices.
- Automatic channel assignment: Helps optimise wireless channel selection in managed network environments.
- Band steering: Helps distribute compatible wireless clients between the 2.4 GHz and 5 GHz bands.
- Load balancing: Supports wireless client distribution to help manage network capacity.
- VLAN support: Allows network traffic to be separated into different virtual network segments.
- Wireless client isolation: Provides additional network separation between connected wireless clients.
- Mobile management: Supports configuration, monitoring and network management through the Omada App.

Full Gigabit Ports to Bridge Network
This device features four Gigabit data ports (1 uplink + 3 downlinks) for connecting multiple devices to your network, with one downlink port supporting PoE pass-through to eliminate the need for an extra power connection.

What's in the Box

- 1 x TP-Link EAP655-Wall AX3000 Wall Plate WiFi 6 Access Point
- 1 x Installation Guide
- 1 x Mounting Kit

Specifications

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Specifications	
Product Code	TP EAP655-Wall
HARDWARE FEATURES	
Interface	Uplink: 1x Gigabit Ethernet Port
	Downlink: 3x Gigabit Ethernet Ports (One port supports PoE out. The PoE out feature requires 802.3at PoE+ input. The maximum power output for POE pass-through is 10.5 W (EU version) or 10 W (US version), based on laboratory testing.)
Physical Security Lock	No
Button	Reset, LED
Power Supply	802.3af/at PoE
Max. Power Consumption	EU: 12W (802.3at PoE, PoE Out off)
	US: 12.6W (802.3at PoE, PoE Out off)
Dimensions (W x D x H)	143 x 86 x 42.6 mm (5.6 x 3.4 x 1.7 in)
Antenna	2 Dual-Band Antennas
	2.4 GHz: 2x 3 dBi
	5 GHz: 2x 5 dBi
Mounting	Wall Plate Mounting (Kits included)
Management Features	
Omada App	Yes

Centralized Management	Omada Hardware Controller
	Omada Software Controller
	Omada Cloud-Based Controller
Cloud Access	Yes. Require the use of an Omada 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. Require the use of an Omada controller.
WIRELESS FEATURES	
Coverage	50²(600 ft²)
Concurrent Clients	120+
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	16 SSIDs (Up to 8 SSIDs on each band)
	Enable/Disable Wireless Radio
	Automatic Channel Assignment
	Transmit Power Control (Adjust Transmit Power on dBm)
	QoS(WMM)
	Seamless Roaming
	Beamforming
	Rate Limit
	Load Balance
	Airtime Fairness
	Band Steering
	Reboot Schedule
	Wireless Schedule
	RADIUS Accounting
	MAC Authentication
	Wireless Statistics
	Static IP/Dynamic IP
Wireless Security	Captive Portal Authentication
	Access Control
	Wireless Mac Address Filtering
	Wireless Isolation Between Clients
	VLAN
	Rogue AP Detection
	802.1X Support
	WPA-Personal/Enterprise, WPA2-Personal/Enterprise, WPA3-Personal/Enterprise
Transmission Power	CE:
	FCC:
	< 21 dBm (2.4 GHz)
	< 21 dBm (5 GHz)
OTHERS	
Certification	Wi-Fi Alliance Certification
	FCC
Package Content	AX3000 Wall Plate WiFi 6 Access Point EAP655-Wall
	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 TP-Link EAP655-Wall used for?

The TP-Link EAP655-Wall is a business-grade WiFi 6 access point designed to provide wireless network connectivity in hotels, offices, apartments, student accommodation, meeting rooms and other indoor environments. It also provides three Gigabit Ethernet downlink ports for wired devices.

Is the TP-Link EAP655-Wall a WiFi 6 access point?

Yes. The EAP655-Wall supports IEEE 802.11ax WiFi 6 technology and offers AX3000-class dual-band wireless speeds of up to 2976 Mbps.

What is the maximum wireless speed of the EAP655-Wall?

The access point supports up to 574 Mbps on the 2.4 GHz band and up to 2402 Mbps on the 5 GHz band, giving a combined theoretical wireless speed of 2976 Mbps. Actual speeds depend on the connected devices, network conditions and wireless environment.

Does the TP-Link EAP655-Wall support Power over Ethernet?

Yes. The EAP655-Wall supports IEEE 802.3af/at PoE input, allowing it to receive power through a compatible Ethernet connection. This helps simplify installation by reducing the need for a separate power cable.

Does the EAP655-Wall have Ethernet ports?

Yes. It features four Gigabit Ethernet ports consisting of one uplink port and three downlink ports. One downlink port also supports PoE pass-through when the access point is powered by an 802.3at PoE+ input.

Can the TP-Link EAP655-Wall power another network device?

Yes. One of its three downlink Gigabit Ethernet ports supports PoE pass-through. This requires an 802.3at PoE+ input, and the maximum output is 10.5 W for the EU version or 10 W for the US version. The connected device must be compatible with the available PoE output.

Can the EAP655-Wall be managed remotely?

Yes. The access point integrates with the TP-Link Omada SDN platform and supports centralised management through compatible Omada hardware, software and cloud-based controllers. Cloud access requires a compatible Omada controller.

Does the TP-Link EAP655-Wall support WPA3 security?

Yes. The access point supports WPA3-Personal and WPA3-Enterprise, as well as WPA and WPA2 security modes. It also supports 802.1X authentication, VLANs, wireless client isolation and access control.

How many wireless networks can the EAP655-Wall create?

The EAP655-Wall supports up to 16 SSIDs, with a maximum of 8 SSIDs on each wireless frequency band. This allows

administrators to configure separate wireless networks for different users and access requirements.

Can the EAP655-Wall be used in a hotel or guest house?

Yes. Its wall-mounted design, dual-band WiFi 6 connectivity, guest network functionality and centralised Omada management make it suitable for hotels, guest houses and hospitality environments that require room-based wireless connectivity.

Is the EAP655-Wall compatible with older WiFi devices?

Yes. The access point supports IEEE 802.11a/b/g/n/ac/ax standards, allowing compatible older wireless devices to connect alongside newer WiFi 6 equipment.

Does the TP-Link EAP655-Wall support seamless roaming?

Yes. Seamless roaming is supported when the access point is configured with compatible Omada controllers and other supported Omada access points. This helps wireless clients maintain connectivity when moving between network coverage areas.

Can the TP-Link EAP655-Wall replace a wireless router?

The EAP655-Wall is a wireless access point rather than a standalone router. It is designed to extend or provide wireless network access through an existing wired network infrastructure. A compatible router or gateway is required to provide routing and internet connectivity.

What type of installation does the EAP655-Wall require?

The access point is designed for wall-plate mounting and supports 86 mm, standard EU and standard US wall junction boxes. It uses an Ethernet connection with compatible 802.3af/at PoE power.

Is the TP-Link EAP655-Wall suitable for business networking?

Yes. Its WiFi 6 connectivity, Gigabit Ethernet ports, PoE support, multiple SSIDs, advanced security and Omada SDN management make it suitable for professional wireless network deployments.

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-EAP655-Wall-TP-Link-EAP655-Wall-AX3000-Wall-Plate-WiFi-6-Access-Point-p-342170.php

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