ComX Computers
Product Specification Sheet

NET-EAP650-D30-OUT

TP-Link Omada EAP650 D30 Outdoor WiFi6 Dual Band Access Point

Product Overview

TP-Link Omada EAP650 D30 Outdoor WiFi6 Dual Band Access Point, 1x Gigabit Ethernet (RJ-45) Port, 802.3at PoE, IP67 Weatherproof enclosure, 250+ concurrent clients, 2.4GHz & 5GHz Frequency, 1024-QAM, OFDMA, Omada Mesh











Specifications

Overview Summary:

The TP-Link Omada EAP650 D30 Outdoor WiFi 6 Access Point is built to deliver fast, reliable wireless connectivity in demanding environments. With AX3000 dual-band speeds, support for over 250 concurrent devices, and an IP67 weatherproof enclosure, it's ideal for businesses, schools, hospitality venues, and large homes that need powerful outdoor coverage. PoE support and Omada Mesh technology make installation simple and flexible, whether mounting on a wall or pole.

Designed for South African conditions, this access point handles extreme temperatures while providing long-range coverage across yards, warehouses, parks, and outdoor venues. Advanced WiFi 6 features like OFDMA, MU-MIMO, and WPA3 security ensure smooth performance and strong protection for connected devices. Upgrade your network today-buy now and enjoy fast, stable outdoor WiFi you can depend on.

Performance tier: High-performance business WiFi 6

Uses: Outdoor business WiFi, warehouse connectivity, school grounds coverage, hospitality venues, parks and recreational areas, large home gardens, security camera networking

Overview:

EAP650 D30 Outdoor
AX3000 Indoor and Outdoor WiFi 6 Access Point

The TP-Link Omada EAP650 D30 Outdoor is a high performance AX3000 WiFi 6 access point designed to deliver fast, stable, and secure wireless connectivity in demanding indoor and outdoor environments. With dual band speeds of up to 2402 Mbps on 5 GHz and 574 Mbps on 2.4 GHz, it provides smooth streaming, reliable video surveillance connectivity, and responsive network performance for businesses and large properties.

Built with a rugged IP67 weatherproof enclosure and engineered for extreme temperatures, this access point is ideal for warehouses, campuses, outdoor cafes, parks, school playgrounds, and residential gardens. Support for 802.3at PoE and Omada Mesh technology ensures flexible installation with minimal cabling.

Description:

The TP-Link Omada EAP650 D30 Outdoor is an AX3000 dual band WiFi 6 access point built for high density and outdoor deployments. It combines ultra fast wireless speeds, long range directional antennas, and advanced technologies such as OFDMA and MU MIMO to support over 250 concurrent clients with stable performance. The IP67 rated enclosure protects against dust, water, lightning, and harsh weather, while PoE support and Omada Mesh enable easy installation and network expansion. Centralized cloud management through the Omada SDN platform makes it simple to monitor, configure, and scale your business WiFi network.

Features:

AX3000 WiFi 6 Performance for Demanding Networks
Powered by the latest WiFi 6 technology, the EAP650 D30 Outdoor delivers combined speeds of up to 2976 Mbps. Compared to previous WiFi standards, it provides higher throughput, lower latency, and better performance in high density environments.

Key performance highlights include:

- 2402 Mbps on 5 GHz and 574 Mbps on 2.4 GHz

- 1024 QAM for 25 percent more data encoding per transmission
- Long OFDM symbol for improved efficiency
- HE160 support for higher peak data rates on a single stream

Whether supporting laptops, tablets, smartphones, wireless cameras, or smart speakers, this access point ensures fluid connectivity even during peak usage.

Optimized for High Density and Multi User Environments
With OFDMA and MU MIMO technology, the EAP650 D30 Outdoor improves multi user efficiency by allowing simultaneous communication with multiple devices. This makes it suitable for areas with heavy device traffic such as amphitheatres, swimming pools, outdoor dining spaces, and enterprise campuses.

It supports 250 or more concurrent clients, ensuring reliable connectivity across large open areas.

Extended Outdoor Coverage with Smart Antennas
Equipped with high gain directional antennas and integrated high power amplifiers, this outdoor WiFi 6 access point is engineered for long range coverage. Smart antenna technology automatically selects the optimal polarization and signal path for stable connectivity and reduced interference.

Typical maximum coverage distances under test conditions:

- 2.4 GHz: 200 meters or more
- 5 GHz: 300 meters or more

Actual coverage may vary depending on environmental factors and client devices.

Built for Harsh Weather Conditions
The IP67 rated enclosure ensures protection against dust ingress and water immersion. Designed for reliable outdoor performance, the unit withstands challenging environments including temperature extremes, moisture, and electrical surges.

Environmental durability includes:

- Fully dust tight construction
- Protection against water immersion up to 1 meter
- 6 kV lightning protection and 15 kV ESD protection
- Operating temperature range from minus 30 to 70 degrees C

This makes it suitable for warehouses, industrial yards, barns, and exposed outdoor installations.

Flexible Deployment with PoE and Mesh Support
Installation is streamlined thanks to multiple powering and networking options. The access point supports both 802.3at PoE and 48 V passive PoE using the included adapter, allowing power and data transmission over a single Ethernet cable.

Deployment options include:

- Connection to a PoE+ switch for simplified enterprise installation
- Passive PoE adapter for home or small business setups
- Omada Mesh technology for wireless uplink without additional cabling

Pole and wall mounting kits are included, providing versatile placement indoors or outdoors.

Seamless Roaming and Advanced Security
Seamless roaming support allows devices to switch automatically to the strongest access point when moving between coverage zones. This ensures uninterrupted streaming, voice calls, and data sessions.

Security and access control capabilities include:

- WPA3, WPA2, and WPA enterprise authentication
- Captive portal with SMS or voucher options
- 802.1X authentication
- Rogue AP detection
- VLAN and SSID mapping
- Wireless isolation and MAC filtering

Up to 16 SSIDs can be configured, with 8 per band, enabling secure segmentation for staff, guests, and IoT devices.

Centralized Cloud Management with Omada SDN
The EAP650 D30 Outdoor integrates seamlessly into the Omada Software Defined Networking platform. With centralized management, administrators can monitor network health, configure devices, and manage multiple sites from a single interface via web browser or mobile app.

Management capabilities include:

- Omada cloud based controller
- Hardware controllers such as OC200 and OC300
- Software controller deployment
- Zero touch provisioning
- Remote firmware upgrades and system logs
- SNMP v1 and v2c support

The Omada app simplifies setup and daily management, allowing configuration and monitoring directly from a smartphone or tablet.

Hardware and Wireless Details
Interface and power:

- 1 x Gigabit Ethernet RJ45 port supporting 802.3at PoE and passive PoE
- Maximum power consumption up to 14.7 W
- Reset button and Bluetooth support

Antenna configuration:

- 2 x 4 dBi antennas for 2.4 GHz
- 2 x 5 dBi antennas for 5 GHz

Wireless standards and capabilities:

- IEEE 802.11ax, 802.11ac, 802.11n, 802.11g, 802.11b, 802.11a
- Dual band 2.4 GHz and 5 GHz
- Beamforming, band steering, load balancing, airtime fairness
- Automatic channel assignment and transmit power control
- Wireless statistics per SSID, AP, and client

Physical dimensions without antenna and mounting kit:

- 106.5 x 57 x 281 mm

Ideal Applications
Business outdoor scenarios:

- Swimming pools and resorts
- Outdoor cafes and restaurants

- Parks and public spaces
- School playgrounds and campuses
- Amphitheatres and event venues

Home and property use:

- Gardens and yards
- Outdoor WiFi camera connectivity
- Sheds and barns

The TP-Link Omada EAP650 D30 Outdoor WiFi 6 access point delivers enterprise grade wireless performance, long range coverage, and centralized cloud management in a rugged design built for both indoor and outdoor environments.

Specifications:

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Specifications	
Product Code	NET-EAP650-D30-OUT
HARDWARE FEATURES	
Interface	1 x Gigabit Ethernet (RJ-45) Port (Support 802.3at PoE and Passive PoE)
Key	Reset
Diet	802.3at PoE
	48V Passive PoE (PoE Adapter Included)
Energy consumption	EU: 12.5W (802.3at PoE or Passive PoE)
	US: 14.7W (802.3at PoE or Passive PoE)
Dimensions (L x W x H)	4.2 x 2.2 x 11.1 in (106.5 x 57 x 281 mm)
	(without antenna & mounting kit)
Antenna	2.4 GHz: 2 x 4 dBi
	5 GHz: 2 x 5 dBi
Bluetooth	Yes
Weatherproof Enclosure	IP67
Mounting type	Pole/Wall Mounting (Kits included)
WIRELESS FEATURES	
Concurrent Clients	250+
Wireless standards	IEEE 802.11ax/ac/n/g/b/a
Frequency	2.4 GHz, 5 GHz

Signal rate	802.11ax: 8 Mbps to 2402 Mbps (MCS0-MCS11, NSS = 1 to 2 HE20/40/80/160)
	802.11ac: 6.5 Mbps to 1083.3 Mbps (MCS0-MCS9, NSS = 1 to 2 VHT20/40/80)
	802.11n: 6.5 Mbps to 300 Mbps (MCS0-MCS15, HT20/40)
	802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
	802.11b: 1, 2, 5.5, 11 Mbps
	802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
Transmission power	CE:
	FCC:
Wireless functionality	1024-QAM
	4 x 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
	Omada Mesh
	Seamless Roaming(802.11k/v/r)
	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
	WEP, WPA-Personal/Enterprise, WPA2-Personal/Enterprise, WPA3-Personal/Enterprise
MANAGEMENT	
Omada App	Yes

Restore & Backup	Yes
NTP	Yes
Centralized Management	Omada Cloud-Based Controller
	Omada Hardware Controller (OC300)
	Omada Hardware Controller (OC200)
	Omada Software Controller
Cloud Access	Yes, through
	Omada Cloud-Based Controller
	OC300
	OC200
	Omada Software Controller
Email alerts	Yes
LED ON/OFF	Yes
MAC Access Control Management	Yes
SNMP	v1, v2c
Local and remote system logs	Yes
SSH	Yes
Web-based management	Yes
L3 Management	Yes
Multi-site Management	Yes
VLAN Management	Yes
Zero-Touch Provisioning	Yes. Requiring the use of Omada Cloud-Based Controller
OTHER	
Certification	CE, FCC, RoHS
Package Contents	Access Point EAP650-Outdoor
	Passive PoE Adapter
	Power Cord
	Mounting Kits
	Installation Guide
System requirements	Microsoft Windows XP, Vista, Windows 7, Windows 8, Windows10, Windows11, Linux
Environment	Operating Temperature: -30-70 degreesC (-22-158 degreesF)
	Storage Temperature: -40-70 degreesC (-40-158 degreesF)
	Operating Humidity: 10-90% RH non-condensing
	Storage Humidity: 5-90% RH non-condensing

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/NET-EAP650-D30-OUT-TP-Link-Omada-EAP650-D30-Outdoor-WiFi6-Dual-Band-Access-Point-p-334821.php

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