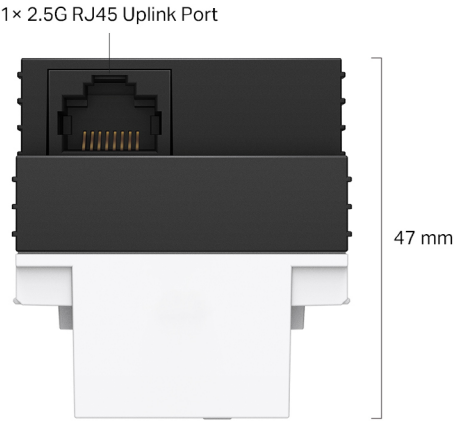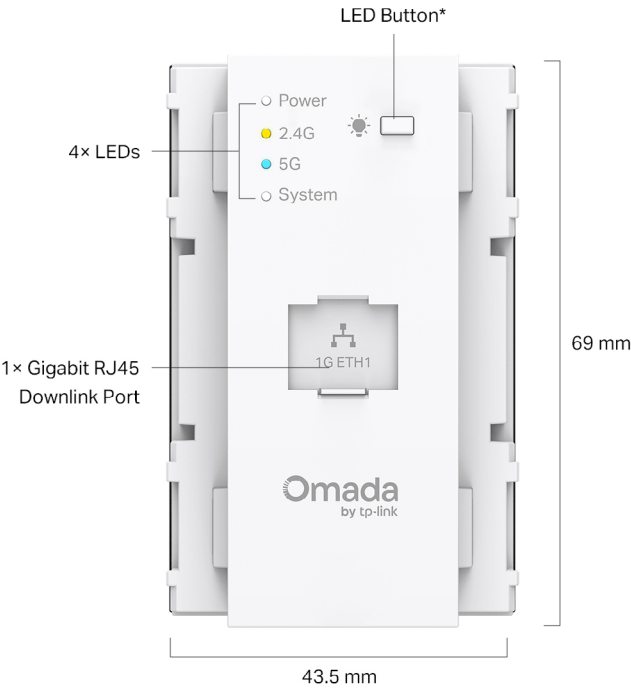# Omada
by tp-link

EAP | Datasheet

EAP720-WE-AC

BE3600 In-Wall Wi-Fi 7 Access Point

Highlights

- Ultra-Fast BE3600 WiFi 7 Speeds: Simultaneous 688 Mbps on 2.4 GHz and 2882 Mbps on 5 GHz totals 3570 Mbps WiFi speeds.*

- Superb Wi-Fi 7 Technology: Multi-Link Operation, 4K-QAM and Multi-RUs ensure the high performance of your network.*

- Ease of Installation: AC power supply and in-wall design bring flexibility.

- Optimized Wired Performance: A 2.5G RJ45 uplink port and a gigabit RJ45 downlink port for high-speed data transfers.

- Complete In-Room WiFi Coverage: Guaranteed strong signals and corner-to-corner WiFi coverage.

- Centralized Cloud Management: Integrates into Omada SDN for cloud access and remote management.

- Secure Guest Network: Implement multiple authentication options (SMS/Voucher) packed with high-quality wireless security technologies.*

Product Pictures

LED Button*

4× LEDs

- Power
- 2.4G
- 5G
- System

1× Gigabit RJ45
Downlink Port

1G ETH1

Omada
by tp-link

69 mm

43.5 mm

Double-Sided Metal
Heat Dissipation

Compact Design

AC100V-
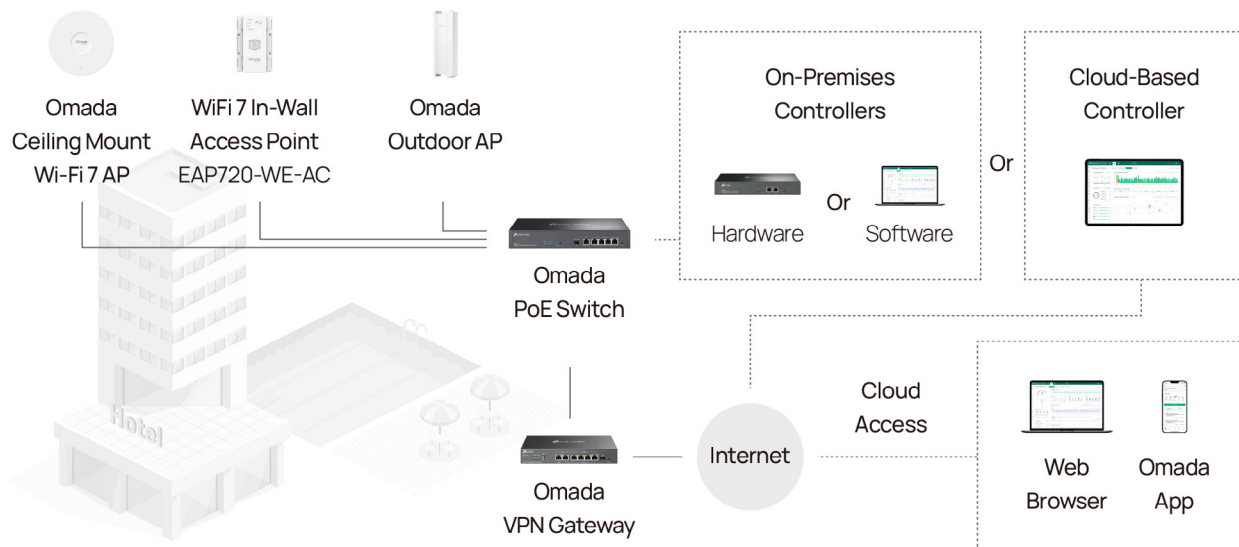PUSH RELEASE-

1× AC Power Input Port

1× 2.5G RJ45 Uplink Port

47 mm

*Press and hold for 20 seconds to enter reset mode.

Omada Solution

Omada's Software Defined Networking (SDN) platform integrates network devices, including access points, switches, and gateways, providing 100% centralized cloud management. Omada creates a highly scalable network—all controlled from a single interface.

Omada
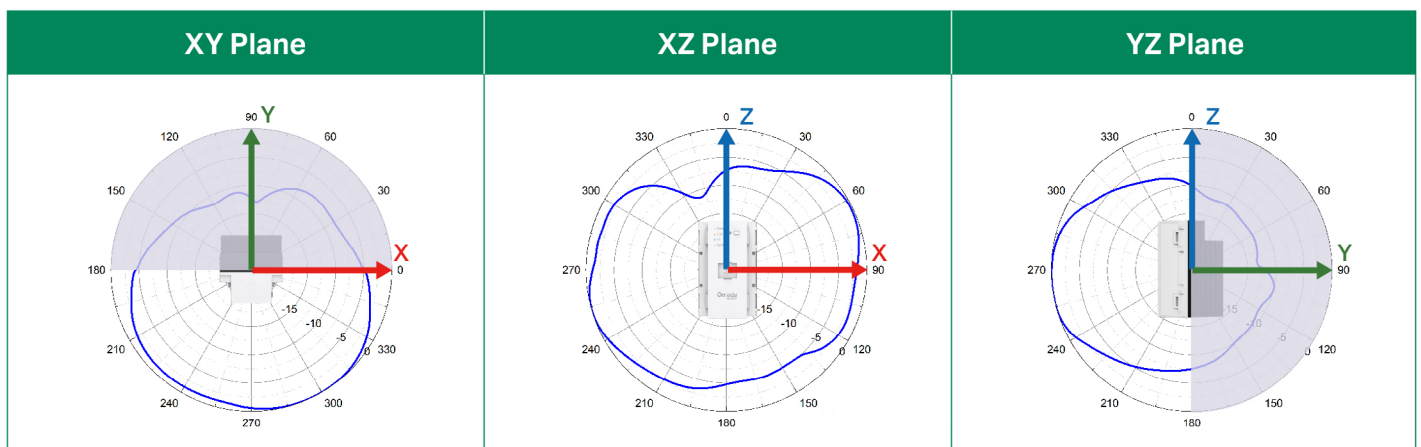Ceiling Mount
Wi-Fi 7 AP

WiFi 7 In-Wall
Access Point
EAP720-WE-AC

Omada
Outdoor AP

Omada
PoE Switch

Omada
VPN Gateway

On-Premises
Controllers

Hardware   Or   Software

Or

Cloud-Based
Controller

Internet

Cloud
Access

Web
Browser

Omada
App

Specifications

Model	EAP720-WE-AC
Name	BE3600 In-Wall Wi-Fi 7 Access Point
Main Design		
	LAN Interfaces	Uplink: 1x 2.5G Ethernet Port Downlink: 1x 1G Ethernet Port
	Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax/be
	Maximum Data Rate	688 Mbps (2.4 GHz) + 2882 Mbps (5 GHz)
	Wireless Client Capacity	250+
	Antennas	2.4 GHz: 2x3 dBi 5 GHz: 2x4 dBi
	Transmit Power	2.4 GHz: 19 dBm (EIRP) 5 GHz: 20 dBm (EIRP)
	Reception Sensitivity	2 GHz: 11be EHT20 MCS0:-94dBm; 11be EHT20 MCS13:-58dBm; 11be EHT40 MCS0:-92dBm; 11be EHT40 MCS13:-55dBm; 5 GHz: 11be EHT20 MCS0:-96dBm; 11be EHT20 MCS13:-59dBm; 11be EHT40 MCS0:-93dBm; 11be EHT40 MCS13:-56dBm; 11be EHT80 MCS0:-90dBm; 11be EHT80 MCS13:-53dBm; 11be EHT160 MCS0:-87dBm; 11be EHT160 MCS13:-51dBm;
Centralized Management		
	Omada Software Controller	•
	Omada Hardware Controller	•
	Omada APP	•
Security		
	Captive Portal Authentication	•
	Access Control	•
	Maximum number of MAC Filter	4000
	Wireless Isolation between Clients	•
	VLAN	•
	Rogue AP Detection	•
	Wireless Encryption	WPA-Personal/Enterprise, WPA2-Personal/Enterprise, WPA3-Personal/Enterprise
	802.1X Support	•

Wireless Function	Multiple SSIDs	16 (8 on each band)
	Channel	2G: 1-12 5G: 36,40,44,48,52,56,60,64,100,104,108,112,116,120,124,128,132,136,140
	Enable/Disable Wireless Radio	•
	Enable/Disable SSID Broadcast	•
	Guest Network	•
	Automatic Channel Assignment	•
	Transmit Power Control	Adjust transmit Power on dBm
	QoS (WMM)	•
	Seamless Roaming	•
	Mesh	•
	Beamforming	•
	MIMO	2x2 MU-MIMO DL/UL
	MU-MIMO	2*2 (2.4G and 5G) MU-MIMO
	OFDMA	UL/DL OFDMA
	Rate Limit	Based on SSID/Client
	Load Balance	•
	Airtime Fairness	•
	Band Steering	•
	RADIUS Accounting	•
	MAC Authentication	•
	Reboot Schedule	•
	Wireless Schedule	•
	Wireless Statistics	•
	Static IP/Dynamic IP	•
Advanced Features	Router Mode	•
Support Data Rates	802.11be	2.4 GHz Band: 8 Mbps to 688 Mbps (MCS0-MCS13, NSS = 1 to 2 EHT20/40) 5 GHz Band: 8 Mbps to 2882 Mbps (MCS0-MCS13, NSS = 1 to 2 EHT20/40/80/160)
	802.11ax	2.4 GHz Band: 8 Mbps to 568 Mbps (MCS0-MCS11, NSS = 1 to 2 HE20/40) 5 GHz Band: 8 Mbps to 2402 Mbps (MCS0-MCS11, NSS = 1 to 2 HE20/40/80/160)
	802.11ac	6.5 Mbps to 2166.7 Mbps (MCS0-MCS9, NSS = 1 to 2 VHT20/40/80/160)
	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

Category	Feature	Specification
Management	LED ON/OFF Control	•
	Management MAC Access Control	•
	Web-based Management	•
	SNMP	v1, v2c, v3
	SSH	•
	Restore & Backup	•
	Firmware update via Web	•
	NTP	•
	System Log	•
	Email Alerts	•
Physical & Environment	Power Supply	AC 100-120V, 50/60Hz
	Maximum Power Consumption	8.4W
	Reset	•
Others	Certifications	VCCI, JRF
	Dimensions (W x D x H)	43.5×47×69 mm
	Net Weight	149g
	Enclosure Material	Top cover: PC Bottom shell: aluminum alloy
	Environment	Operating Temperature: 0 °C–45 °C (32 °F–113 °F); Storage Temperature: -40 °C–70 °C (-40 °F–158 °F); Operating Humidity: 10%–90% non-condensing; Storage Humidity: 5%–90% non-condensing;

Antenna Radiation Patterns

2.4 GHz

XY Plane	XZ Plane	YZ Plane

5 GHz

XY Plane	XZ Plane	YZ Plane

Disclaimers

* Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage are not guaranteed. They 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.

* The actual capacity depends on the wireless environment and client traffic and is generally less than the maximum number of client connections.

* Use of WiFi 6 (802.11ax), Wi-Fi 7 (802.11be) and their features, including OFDMA, 160 MHz Bandwidth, and 4K-QAM, require clients to support the corresponding features. The 160 MHz bandwidth is only available on the 5 GHz band. It may be unavailable in some regions/countries due to regulatory restrictions. The double channel width refers to 160 MHz compared to 80 MHz for general WiFi 6 APs.

* Omada Mesh, Seamless Roaming, and Captive Portal require Omada SDN controllers. Go to https://www.tp-link.com/en/omada-mesh/product-list/ to find all the models supported by Omada mesh technology, and refer to the User Guides of Omada SDN controllers for configuration methods.

* Zero-Touch Provisioning and Auto Channel Selection and Power Adjustment require the use of Omada Cloud-Based Controller. Go to https://www.tp-link.com/en/omada-cloud-based-controller/product-list/ to confirm which models are compatible with Omada Cloud-Based Controller.

* Coverage value is calculated based on laboratory testing. Actual coverage is not guaranteed and will vary as a result of client limitations and environmental factors.

* 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.