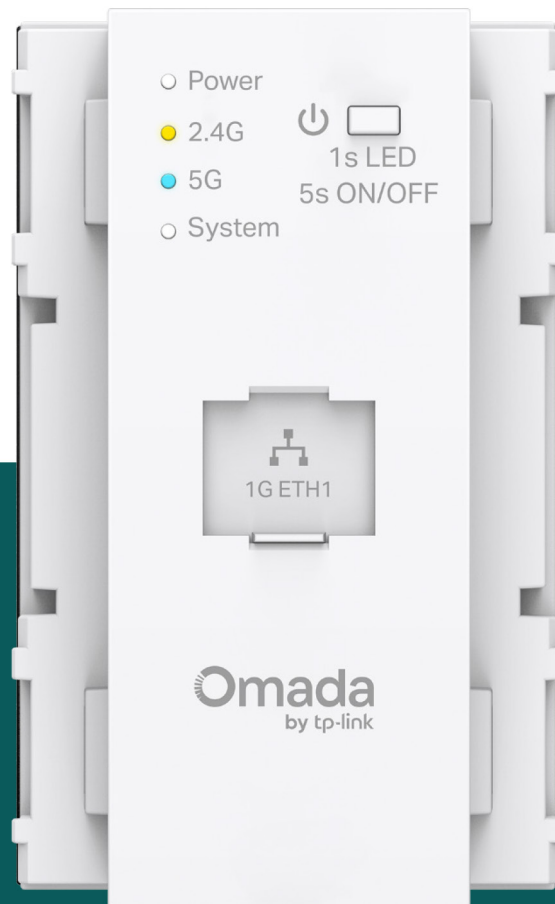




Omada BE3600 In-Wall Wi-Fi 7 Access Point

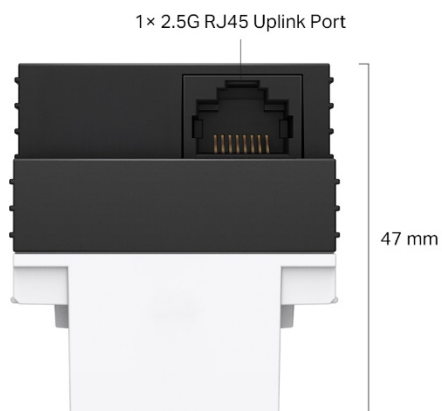
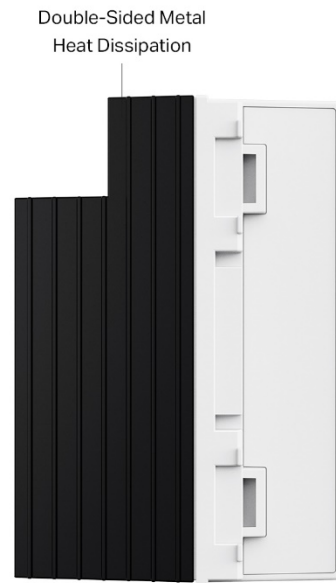
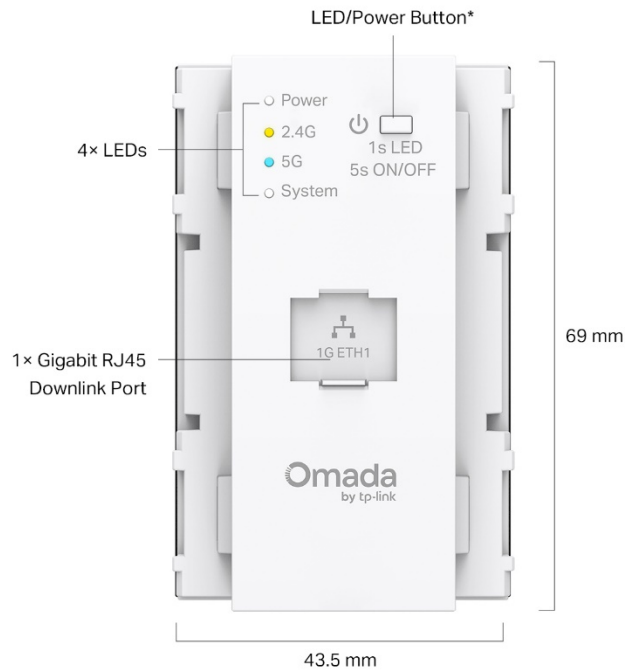
Model: EAP720-WE

Product Overview

Omada BE3600 In-Wall Wi-Fi 7 Access Point combines high-speed performance with elegant simplicity. It provides reliable, continuous, corner-to-corner coverage, ideal for offices, MDUs, and hotels.

- Dual-Band Wi-Fi 7: 2882 Mbps on 5 GHz and 688 Mbps on 2.4 GHz.[†]
- In-Wall Design: Exquisite and compact appearance for all-round protection and aesthetics.
- Optimized Hardware Performance: 1× 2.5G uplink port, 1× Gigabit downlink port.
- Low Latency and Interference: Multi-Link Operation, Multi-RUs, and 4K-QAM ensure high performance for your network.[‡]
- Flexible Deployment and Easy Setup: Supports 802.3af PoE for flexible installation with Omada SDN for one-click setup.
- Advanced Features: Supports centralized cloud management, mesh, and seamless roaming.[§]
- More Connections and Wider Coverage: Supports 250+ concurrent connections^{**} and covers up to 330 ft² (30 m²)^{*} for reliable and extensive wireless connectivity.
- Two Versions Available: With SSID and password (supports plug and play) or without SSID and password.[△]

Product Appearance

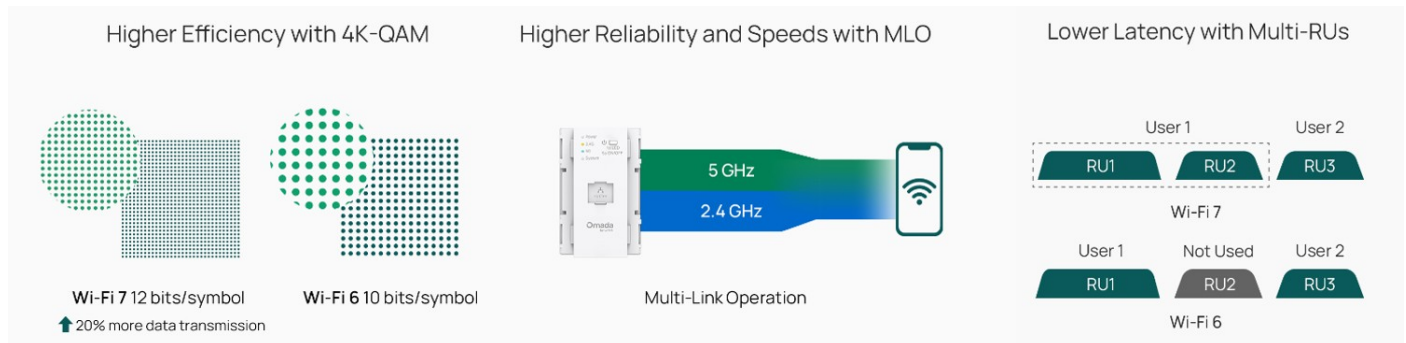


*Press 1s: LEDs On/Off
Hold 5s: Power On/Off
Hold 20s: Reset

Feature Descriptions

Omada Wi-Fi 7 Technology: Swifter, Smoother, Stronger

Featuring superb Wi-Fi 7 technologies including Multi-Link Operation, Multi-RUs, and 4K-QAM, Omada EAP720-WE significantly enhances throughput, connection stability, and concurrent capacity, ensuring faster and higher quality connections for more devices.



Wall-Embedded Design and PoE for Flexible Deployment

The wall-embedded design of EAP720-WE ensures a discreet and aesthetic installation, seamlessly blending into diverse environments. It supports 802.3af PoE for flexible deployment and easy setup without extra power wiring. Featuring a sealed shell, dust-proof ports, and double-sided metal heat dissipation, it provides reliable performance and stable connectivity for an enhanced network experience.

Optimized Wired Performance

The 2.5G uplink port ensures blazing-fast internet access and efficient large-file transfers, while the Gigabit downlink port offers reliable, high-bandwidth support for local devices.

Dedicated Private Wi-Fi Network in Each Room

EAP720-WE in each room allows users to enjoy their own private Wi-Fi network, delivers a strong signal, and provides corner-to-corner coverage up to 330 ft² (30 m²).* Advanced security includes a secure guest network with up to 16× SSIDs, SMS login, WPA3-Enterprise encryption, and rogue AP detection, ensuring safe, reliable connectivity for both guests and business operations.

Easy Setup via the Omada App or Web Browser, Powered by SDN

Omada Software-Defined Networking (SDN) enables rapid setup of EAP720-WE through auto-discovery and one-click adoption. Manage and configure seamlessly via the Omada app or web portal for effortless control.

Seamless Connectivity with Mesh and Roaming

Omada mesh and 802.11k/v/r roaming ensure customers enjoy uninterrupted streaming when moving around by switching clients automatically to the access points with the optimal signals.

Cloud-Based Centralized Management

As part of Omada's unified SDN ecosystem, EAP720-WE works with Omada switches, gateways, and controllers. Businesses gain end-to-end visibility, automated optimization, zero-touch provisioning, and batch configuration—all managed from a single cloud interface.

Specifications

Hardware Specifications

Item	Description	
Wi-Fi Standards	5 GHz: IEEE 802.11a/n/ac/ax/be 2.4 GHz: IEEE 802.11b/g/n/ax/be	
802.11be	Spatial Streams	2.4 GHz: 2×2 UL/DL MU-MIMO with 2 spatial streams 5 GHz: 2×2 UL/DL MU-MIMO with 2 spatial streams - Support MU-MIMO
	Frequency Bands	2.400 to 2.467 GHz ISM 5.150 to 5.250 GHz U-NII-1 5.250 to 5.350 GHz U-NII-2A 5.470 to 5.725 GHz U-NII-2C *Note: Country-Specific Restriction Apply
	Bandwidth	2.4 GHz: 20 MHz/40 MHz 5 GHz: 20 MHz/40 MHz/80 MHz/160 MHz *Note: Country-Specific Restriction Apply
	Wireless Data Rate	2.4G+5G: 3600Mbps 2.4 GHz: 8.6 Mbps to 688 Mbps (MCS0-MCS13, NSS=1 to 2, EHT20/40) 5 GHz: 8.6 Mbps to 2882 Mbps (MCS0-MCS13, NSS=1 to 2, EHT20/40/80/160)
	Radio Technology	Uplink/downlink OFDMA (Orthogonal Frequency-Division Multiple Access)
	Modulation Type	4096-QAM, 1024-QAM, 256-QAM, 64-QAM, 16-QAM, QPSK, BPSK
	Frame Aggregation	- A-MPDU (Aggregate MAC Protocol Data Unit) for Tx/Rx - A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx
	Others	- BSS Coloring - Multi-Link Operation (MLO) - Maximal Ratio Combining (MRC) - Transmit Beamforming (TxBF) - Wi-Fi Protect Access 3 (WPA3) - Dynamic Frequency Selection (DFS) - Cycle Delay Diversity (CDD) - Cycle Shift Diversity (CSD) - Space-Time Block Coding (STBC) - Low-Density Parity Check (LDPC)
802.11ax	Spatial Streams	2.4 GHz: 2×2 UL/DL MU-MIMO with 2 spatial streams 5 GHz: 2×2 UL/DL MU-MIMO with 2 spatial streams - Support MU-MIMO
	Frequency Bands	2.400 to 2.467 GHz ISM 5.150 to 5.250 GHz U-NII-1 5.250 to 5.350 GHz U-NII-2A 5.470 to 5.725 GHz U-NII-2C *Note: Country-Specific Restriction Apply

Item	Description	
	Bandwidth	2.4 GHz: 20 MHz/40 MHz 5 GHz: 20 MHz/40 MHz/80 MHz/160 MHz <i>*Note: Country-Specific Restriction Apply</i>
	Wireless Data Rate	2.4 GHz: 8.6 Mbps to 573 Mbps (MCS0-MCS11, NSS=1 to 2, HE20/40) 5 GHz: 8.6 Mbps to 2402 Mbps (MCS0-MCS11, NSS=1 to 2, HE20/40/80/160) <i>*Note: Country-Specific Restriction Apply</i>
	Radio Technology	Uplink/downlink OFDMA (Orthogonal Frequency-Division Multiple Access)
	Modulation Type	1024-QAM, 256-QAM, 64-QAM, 16-QAM, QPSK, BPSK
	Frame Aggregation	- A-MPDU (Aggregate MAC Protocol Data Unit) for Tx/Rx - A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx
	Others	- MRC (Maximal Ratio Combining) - TxBF (Transmit Beamforming) - WPA3 (Wi-Fi Protect Access 3) - DFS (Dynamic Frequency Selection) - CDD (Cycle Delay Diversity) - CSD (Cycle Shift Diversity) - STBC (Space-Time Block Coding) - LDPC (Low-Density Parity-Check)
802.11ac	Spatial Streams	5 GHz: 2×2 Uplink/Downlink MU-MIMO with 2 spatial streams
	Frequency Bands	5.150 to 5.250 GHz U-NII-1 5.250 to 5.350 GHz U-NII-2A 5.470 to 5.725 GHz U-NII-2C <i>*Note: Country-Specific Restriction Apply</i>
	Bandwidth	5 GHz: 20 MHz/40 MHz/80 MHz/160 MHz
	Wireless Data Rate	5 GHz: 6.5 Mbps to 1732 Mbps (MCS0-MCS9, NSS=1 to 2, VHT20/40/80/160)
	Radio Technology	OFDM (Orthogonal Frequency-Division Multiplexing)
	Modulation Type	256-QAM, 64-QAM, 16-QAM, QPSK, BPSK
	Frame Aggregation	- A-MPDU (Aggregate MAC Protocol Data Unit) for Tx/Rx - A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx
	Others	- MRC (Maximal Ratio Combining) - TxBF (Transmit Beamforming) - DFS (Dynamic Frequency Selection) - CDD (Cycle Delay Diversity) - CSD (Cycle Shift Diversity) - STBC (Space-Time Block Coding) - LDPC (Low-Density Parity-Check)
802.11n	Spatial Streams	2.4 GHz: 2×2 MIMO with 2 spatial streams 5 GHz: 2×2 MIMO with 2 spatial streams

Item	Description		
	Frequency Bands	2.400 to 2.467 GHz ISM 5.150 to 5.250 GHz U-NII-1 5.250 to 5.350 GHz U-NII-2A 5.470 to 5.725 GHz U-NII-2C <i>*Note: Country-Specific Restriction Apply</i>	
	Bandwidth	20 MHz/40 MHz	
	Wireless Data Rate	2.4 GHz: 6.5 Mbps to 300 Mbps (MCS0-MCS7, NSS=1 to 2, HT20/40) 5 GHz: 6.5 Mbps to 300 Mbps (MCS0-MCS7, NSS=1 to 2, HT20/40)	
	Radio Technology	OFDM (Orthogonal Frequency-Division Multiplexing)	
	Modulation Type	64-QAM, 16-QAM, QPSK, BPSK	
	Frame Aggregation	- A-MPDU (Aggregate MAC Protocol Data Unit) for Tx/Rx - A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx	
	Others	- MRC (Maximal Ratio Combining) - TxBF (Transmit Beamforming) - DFS (Dynamic Frequency Selection) - CDD (Cycle Delay Diversity) - CSD (Cycle Shift Diversity) - STBC (Space-Time Block Coding) - LDPC (Low-Density Parity-Check)	
Antenna	Wi-Fi	2.4 GHz: 2 × 3 dBi (peak gain), Internal dipole antenna 5 GHz: 2 × 4 dBi (peak gain), Internal dipole antenna <i>*Note: The gains above are the single-antenna peak gains.</i>	
Interfaces	1 x 10M/100M/1000M/2.5Gbps Multigigabit Ethernet Port (RJ45); PoE In; 1 x 10M/100M/1000Mbps Multigigabit Ethernet Port (RJ45);		
Memory	- Flash: 1024Mbit - DRAM: 4096Mbit		
Button	1 × LED/Power button: Press 1s: LEDs On/Off; Hold 5s: Powers On/Off; Hold 20s: Reset		
Indicator	4 × LED on the front: - Power-on status 2.4G status 5G status - System-on status		
Reliability	MTBF (Mean Time between Failure)	141360H@25°C;	
Power Supply	Input	1*802.3af PoE: 36 - 57 V = 0.35A	
Power Consumption	MODE	POWER CONSUMPTION	WI-FI RADIOS (COMBINED POWER)
	802.3af PoE	8.6W	2.4GHz(2x2) Tx 13dBm 5GHz(2x2) Tx 13dBm

Item	Description	
Surge/Lightning Protection	Ethernet Ports: ± 2 kV	
ESD/EMP Protection	- Air discharge: ± 8.5 kV - Contact discharge: ± 4.5 kV <i>*Note: ESD/EMP Protection means Electrostatic Discharge/Electromagnetic Pulse Protection independently.</i>	
Tx Power	Maximum transmit power	CE (EIRP) 2.4 GHz: 19 dBm 5 GHz: 20 dBm in U-NII-1, 20 dBm in U-NII-2A, 20 dBm in U-NII-2C, <i>*Note: MIMO combined power, excluding antenna gains. The actual transmit power depends on local laws and regulations.</i>
	Minimum transmit power	CE (EIRP) 2.4 GHz: 7 dBm 5 GHz: 8 dBm in U-NII-1, 8 dBm in U-NII-2A, 8 dBm in U-NII-2C <i>*Note: MIMO combined power, excluding antenna gains. The actual transmit power depends on local laws and regulations.</i>
	Adjustable power increment	1 dBm
Environment	Temperature	- Operating: 0°C to $+45^{\circ}\text{C}$ (32°F to $+113^{\circ}\text{F}$) - Storage: -40°C to $+70^{\circ}\text{C}$ (-40°F to $+158^{\circ}\text{F}$)
	Humidity	- Operating: 10% to 90% (non-condensing) - Storage: 5% to 90% (non-condensing)
	Altitude	- Storage: up to + 2000 m (6561 feet) - Operating: up to + 2000 m (6561 feet)
Unit	Dimensions (W×D×H)	- Main Unit: $43.5 \times 47 \times 69$ mm ($1.7 \times 1.9 \times 2.7$ in.) Including the boss; $43.5 \times 18 \times 69$ mm ($1.7 \times 0.7 \times 2.7$ in.) Protruding from the wall - Shipping Unit: $114.5 \times 65 \times 81$ mm ($4.5 \times 2.6 \times 3.2$ in.)
	Weight	- Main Unit: 0.14 kg (0.31 lb) - Shipping Unit: 0.21 kg (0.46 lb)
	Mounting	Junction Box Mounting

Software Specifications

Item	Description	
Wireless Functions	Maximum number of BSSIDs	16 (8 on each band)
	Maximum number of associated STAs	250+
	Guest Network	Yes
	ACS (Automatic Channel Selection)	Yes
	Airtime Fairness	Yes
	Band Steering	Yes
	802.11 Rate Control	Yes
	Rogue AP Detection	Yes
	URL Filtering	Yes
	RF Scan	Yes
	WLAN Optimization	Yes
	WIDS/WIPS	No
	Lock to AP	Yes
	Rate Limit	• SSID Rate Limit • Client Rate Limit
	Load Balance	• Maximum Associated Clients • RSSI Threshold
	MLO	• 2.4 GHz+5 GHz
Security and Authentication	Roaming	• 802.11 k • 802.11v • 802.11r • AI Roaming *Note: Only support Layer 2 Roaming currently.
	Multicast/Broadcast Management	• Multicast-to-Unicast Conversion • ARP-to-Unicast Conversation • Multicast Filtering
	QoS (Quality of Service)	• WMM (Wi-Fi Multimedia) • DSCP (Differentiated Services Code Point) • U-APSD (Unscheduled Automatic Power Save Delivery)
	ACL	
Security and Authentication	MAC Filter	
	802.1X Authentication	

Item	Description	
	MAC-Based Authentication	
	• None • Enhanced Open • WPA/WPA2/WPA3-Personal • WPA/WPA2/WPA3-Enterprise	
	Radius Accounting	
	• PPSK without Radius • PPSK with Radius (Generic Radius with bound MAC/EKMS/Generic Radius with unbound MAC)	
	Captive Portal	• No Authentication • Simple Password • RADIUS Server • External LDAP Server • External Portal Server • Pre-Authentication Access • Authentication-Free Client
Management methods	EAP Types	• EAP-TLS • EAP-TTLS • EAP-PEAP • EAP-CHAP • EAP-SIM • EAP-AKA • EAP-GTC • EAP-FAST • EAP-PEAP • EAP-MD5 • EAP-MSCHAPv2 • PEAPv0 • PEAPv1
	Omada Controller	• Omada Controller V6.1.0 and above • Omada Essential V6.1.0 and above
	App	Omada App V5.0 and above
	Standalone Management	Yes
	Standalone Mesh	No
	SSH	Yes
	SNMP	v1, v2c, v3
Operating Modes	AP	Yes
	Mesh	Yes
	Router	Yes
System Feature	System Log	Yes
	Reboot Schedule	Yes

Item	Description	
	WLAN Schedule	Yes
	NTP (Network Time Protocol)	Yes
	Email Alerts	Yes
	Firmware Upgrade	Yes
	Restore & Backup	Yes
	LED Control	Yes
Network Features	VLAN	• SSID VLAN • Dynamic VLAN • Management VLAN • Port VLAN
	Static IP / DHCP Client	Yes
	IPv4/IPv6	Yes
	LLDP (Link Layer Discovery Protocol)	Yes
	mDNS	Yes
	Tools	• Ping / Traceroute / DNSLookup • Packet Capture • Terminal

Standards Compliance and Certifications

Item	Category	Description
Standards compliance	IEEE Standards	• IEEE 802.11a/b/g/n/ac/ax/be • IEEE 802.11e/i/k/v/r • IEEE 802.1x/q • IEEE 802.3at • IEEE 802.3ab • IEEE 802.3bz • IEEE 802.3x
	Security Standards	• WPA-Personal/Enterprise • WPA2-Personal/Enterprise • WPA3-Personal/Enterprise • OWE
	RoHS	• Directive 2011/65/EU, Directive (EU) 2015/863 • EN IEC 63000: 2018
	Others	• VCCI-CISPR 32
Certifications	• VCCI/MIC	

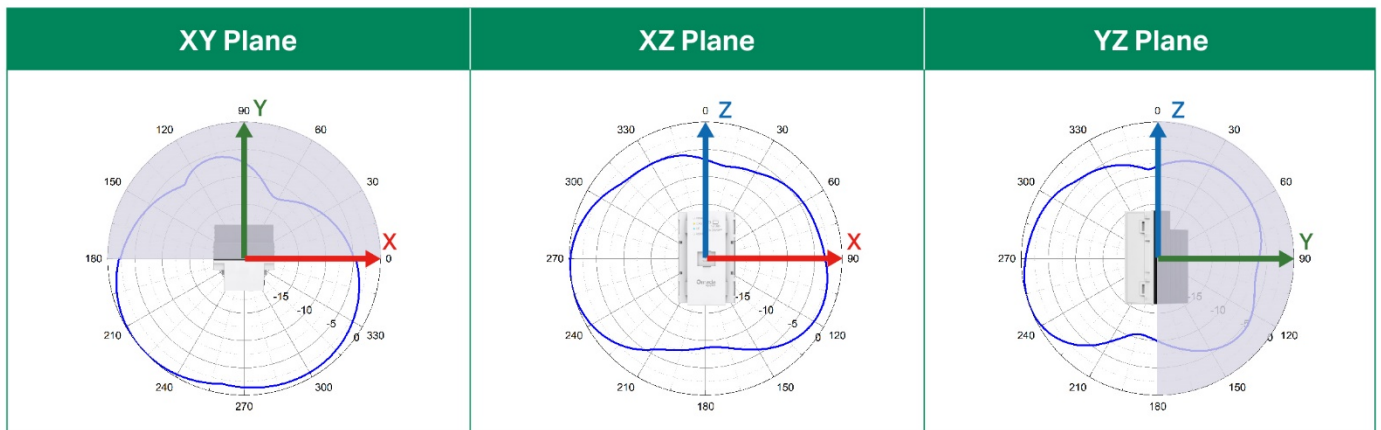
RF Performance

Frequency Band	Wi-Fi Protocol & Bandwidth	MCS Index / Data Rate	EU/US Maximum Transmit Power (dBm) per transmit chain	Receiver Sensitivity (dBm) per receive chain
2.4 GHz	802.11n, HT20	MCS0	13	-94
		MCS7	13	-75.5
	802.11n, HT40	MCS0	13	-91.5
		MCS7	13	-72
	802.11ax, HE20	MCS0	13	-95.5
		MCS11	13	-65.5
	802.11ax, HE40	MCS0	13	-94
		MCS11	13	-63.5
	802.11be, EHT20	MCS0	13	-94
		MCS13	13	-58
	802.11be, EHT40	MCS0	13	-92
		MCS13	13	-55
5 GHz	802.11n, HT20	MCS0	13	-93.5
		MCS7	13	-74.5
	802.11n, HT40	MCS0	13	-90.5
		MCS7	13	-71.5
	802.11ac, VHT20	MCS0	13	-95
		MCS7	13	-69.5
	802.11ac, VHT40	MCS0	13	-92
		MCS9	13	-67.5
	802.11ac, VHT80	MCS0	13	-89
		MCS9	13	-64.5
	802.11ax, HE20	MCS0	13	-94
		MCS11	13	-64.5
	802.11ax, HE40	MCS0	13	-93
		MCS11	13	-62
	802.11ax, HE80	MCS0	13	-89
		MCS11	13	-59.5
	802.11ax, HE160	MCS0	13	-86

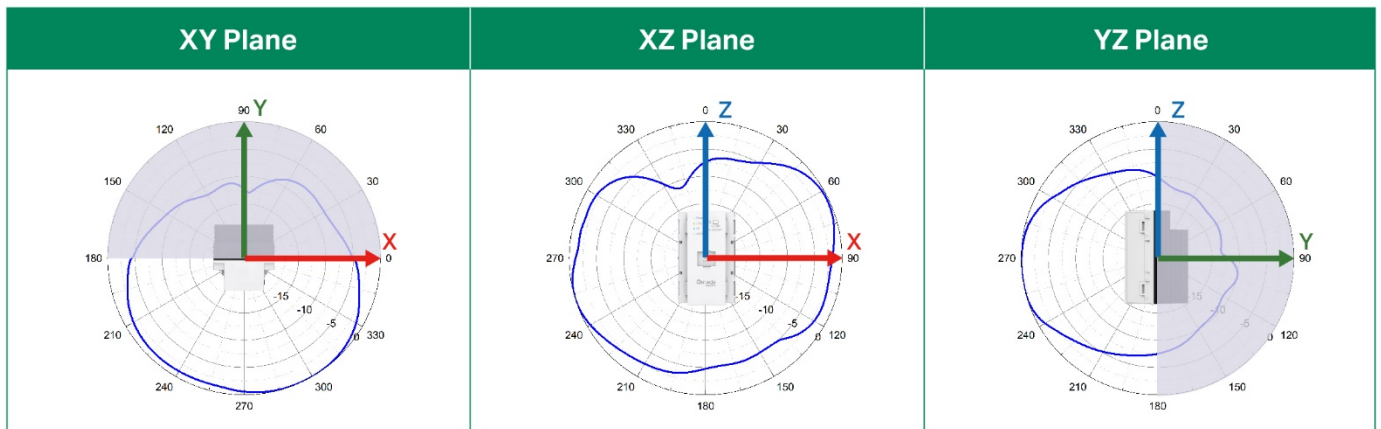
Frequency Band	Wi-Fi Protocol & Bandwidth	MCS Index / Data Rate	EU/US Maximum Transmit Power (dBm) per transmit chain	Receiver Sensitivity (dBm) per receive chain
	802.11be, EHT20	MCS11	13	-56
		MCS0	13	-96
	802.11be, EHT40	MCS13	13	-59
		MCS0	13	-93
	802.11be, EHT80	MCS13	13	-56
		MCS0	13	-90
	802.11be, EHT 160	MCS13	13	-53
		MCS0	13	-87
		MCS13	13	-51

Antenna Radiation Patterns

2.4 GHz



5 GHz



Package Contents

Item	Quantity
EAP720-WE	1
Installation Guide	1

Support Services

We are committed to providing you with comprehensive and reliable support services to ensure seamless experience with Omada products.

- Contact Support: <https://support.omadanetworks.com/#contact-us>
- Warranty Services: <https://www.omadanetworks.com/support/replacement-warranty/>

Revision History

Version	Date	Description
V1.0	2025-10-20	Initial release.

[†] 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 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.

[‡] Use of Wi-Fi 7 (802.11be), Wi-Fi 6 (802.11ax), and features including Multi-Link Operation (MLO), 160 MHz bandwidth, 4K-QAM, Multi-RUs, OFDMA, and MU-MIMO requires clients to also support the corresponding features.

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

^{**} Actual capacity depends on the wireless environment and client traffic and is generally less than the maximum number of client connections.

[§] Omada Mesh, Seamless Roaming, Captive Portal, and Cloud Access require the use of an Omada controller. Please refer to the User Guides of Omada controllers for configuration methods.

[^] If you use the Omada controller to manage your SSID & password preferences, you will not be able to use the Plug & Play feature. If you use it standalone, you can connect to the internet immediately with the SSID & password provided, but if you want to manage this product with an Omada controller, you will need to configure it through the controller.

Some models featured in this guide may be unavailable in your country or region. Visit TP-Link website for local sales information: <https://www.omadanetworks.com>. Specifications are subject to change without notice.