



Omada BE3600 Dual-Band Wall Plate Wi-Fi 7 Access Point

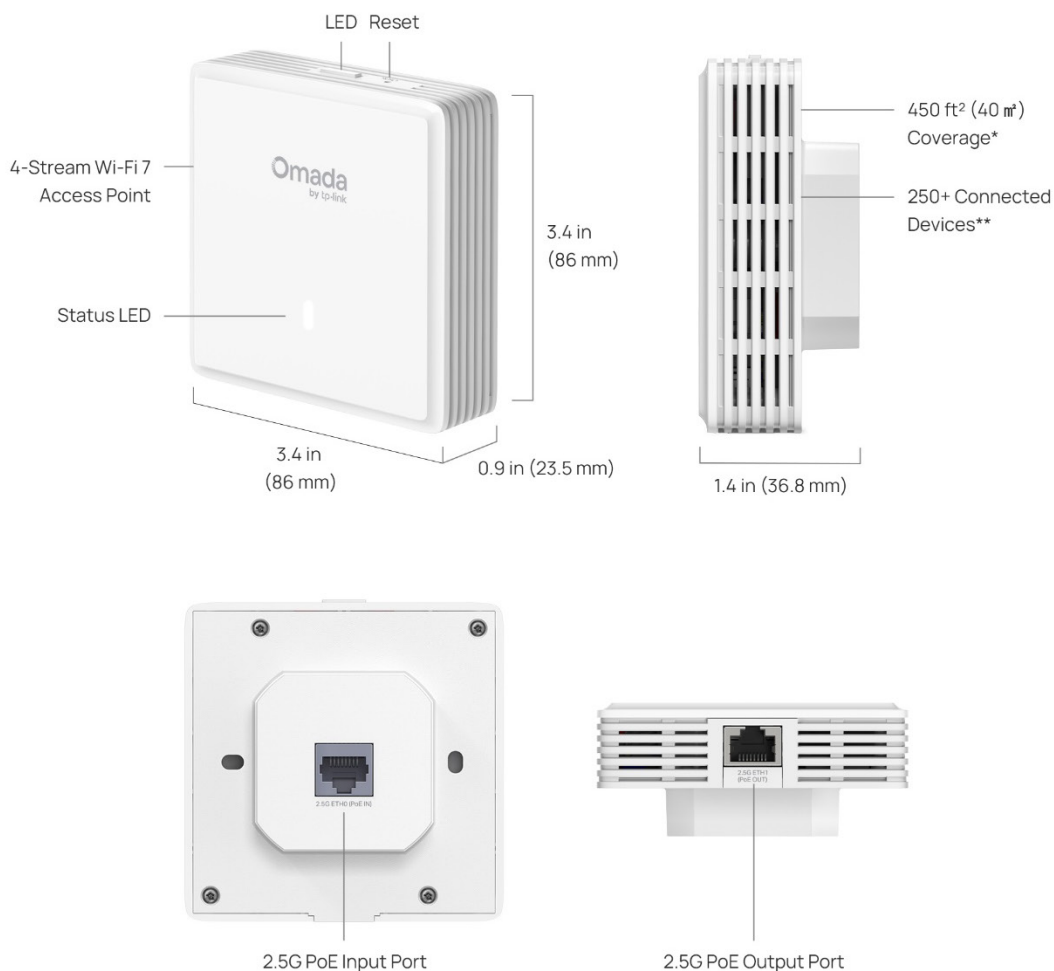
Model: EAP720-Wall

Product Overview

Featuring reliable performance and a compact design, Omada EAP720-Wall is an ideal choice for business Wi-Fi 7 networking.

- **4-Stream Dual-Band Wi-Fi 7:** 2882 Mbps on 5 GHz and 688 Mbps on 2.4 GHz[†]
- **2× 2.5 Gbps Ports:** One for PoE input, one for PoE output
- **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/at PoE for flexible installation with Omada SDN for one-click setup.
- **Advanced Features:** Supports centralized management, mesh, and seamless roaming.^Δ
- **More Connections and Wider Coverage:** Supports 250+ concurrent clients^{**} and covers up to 450 ft² (40 m²)* for reliable and extensive wireless connectivity.

Product Appearance



*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.

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

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-Wall significantly enhances throughput, connection stability, and concurrent capacity, ensuring faster and higher quality connections for more devices.



Compact Design for Flexible Deployment

EAP720-Wall features an elegant and compact square profile measuring 3.4 in (86 mm) in length and width. Compatible with standard EU wall junction boxes and 86mm wall junction boxes, it requires no additional installation. This enables flexible and visually unobtrusive deployment.

2.5G PoE Ports for Optimized Wired Performance

With 2.5G PoE input and output ports, EAP720-Wall delivers remarkable multi-gigabit performance for higher bandwidth and faster Wi-Fi. Wired devices, such as IP phones, can be powered without the need for additional electrical cables.

Easy Setup via Omada Software-defined Networking (SDN)

With Omada Software-defined Networking (SDN), setting up your network is effortless—auto device discovery and one-click EAP720-Wall adoption via the Omada app or web make deployment fast and seamless.

Boosted Network Security

EAP720-Wall offers advanced security features, including a secure guest network with up to 16 SSIDs, SMS login for enhanced business authentication, WPA3 encryption for worry-free open public access, and rogue AP detection, ensuring safer and more reliable network experiences for both guests and business operations.

Cloud-Based Centralized Management

As part of Omada's unified SDN ecosystem, EAP720-Wall integrates seamlessly with Omada switches, gateways, and controllers, delivering 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 2.472 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 5.725 to 5.850 GHz U-NII-3/ISM *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 2.472 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 5.725 to 5.850 GHz U-NII-3/ISM *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 5.725 to 5.850 GHz U-NII-3/ISM <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 2.472 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 5.725 to 5.850 GHz U-NII-3/ISM <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 × 4 dBi (peak gain), Internal dipole antenna 5 GHz: 2 × 5 dBi (peak gain), Internal dipole antenna <i>*Note: The gains above are the single-antenna peak gains.</i>
	IoT	Bluetooth: 1 × 1 dBi (peak gain), internal omnidirectional antennas
Interfaces	1 × 10M/100M/1000M/2.5Gbps Multigigabit Ethernet Port (RJ45); PoE In; 1 × 10M/100M/1000M/2.5Gbps Multigigabit Ethernet Port (RJ45); PoE Out;	
IoT	BLE 5.2, 1Mbps	
Memory	- Flash: 1024Mbit - DRAM: 4096Mbit	
Button	1 × Reset button: Press the button for longer than 5 seconds to make the device restore to factory settings. 1 × LED Button	
Indicator	1 × white LED on the front: - Power-on status - Firmware initialization or upgrade status - Error status	
Reliability	MTBF (Mean Time between Failure)	143000H@25°C; 92000H@40°C

Item	Description			
Power Supply	Input	1*802.3at PoE+: 42.5 - 57 V $\approx$ 0.6A, or 1*802.3af PoE: 36 - 57 V $\approx$ 0.35A		
	Output	1*802.3af PoE: 43 - 56 V $\approx$ 0.18A (802.3at input only)		
Power Consumption	MODE	POWER CONSUMPTION	SYSTEM CONFIGUTATION	WI-FI RADIOS (COMBINED POWER)
	802.3at PoE	11.5W (PoE out not included)	PoE Out Enabled BLE Enabled	2.4GHz(2x2) Tx 15dBm 5GHz(2x2) Tx 17dBm
	802.3af PoE	11.5W	PoE Out Disabled BLE Enabled	2.4GHz(2x2) Tx 15dBm 5GHz(2x2) Tx 17dBm
Surge/Lightning Protection	Ethernet Ports: $\pm$ 2 kV			
ESD/EMP Protection	- Air discharge: $\pm$8.5 kV - Contact discharge: $\pm$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: 20 dBm 5 GHz: 24 dBm in U-NII-1, 24 dBm in U-NII-2A, 24 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 +40°C (32°F to +104°F) - Storage: -30°C to +70°C (-22°F to +158°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: 86 × 86 × 36.8 mm (3.4× 3.4× 1.4 in.)-Including the boss 86 × 86 × 23.5 mm (3.4× 3.4× 0.9 in.)-Protruding from the wall - Shipping Unit: 139 × 127 × 55 mm (5.5 × 5 × 2.2 in.)		
	Weight	- Main Unit: 0.22 kg (0.49 lb) - Mounting Bracket: 0.007 kg (0.016 lb) - Shipping Unit: 0.336 kg (0.74 lb)		
	Mounting	Junction Box Mounting (Screws included)		

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
	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)
Security and Authentication	ACL	
	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
	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
Management methods	Omada Controller	• Omada Controller V5.14.25 and above • Omada Essential V5.14.25 and above
	App	Omada App V4.24 and above
	Standalone Management	Yes
	Standalone Mesh	No
	SSH	Yes
	SNMP	v1, v2c, v3
Operating Modes	AP	Yes
	Mesh	Yes
System Feature	System Log	Yes
	Reboot Schedule	Yes
	WLAN Schedule	Yes

Item	Description	
	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
	Radio Standards	• ETSI EN 300 328 • ETSI EN 301 893 • EN 303 413 • EN 303 687 • EN 50385 EN50665 EN IEC 62311 • FCC Part 15E • RSS-247, RSS-GEN • LP0002
	EMC standards	• EN 55032 • EN 55035 • EN 301489-1 • EN 301489-17 • EN 301489-19 • FCC Part 15C • ICES-003 issue7 • CNS 15936
	Safety Standards	• EN 62368-1 • IEC 62368-1 • CNS 15598-1
	Security Standards	• WPA-Personal/Enterprise • WPA2-Personal/Enterprise • WPA3-Personal/Enterprise
	RoHS	• Directive 2011/65/EU, Directive (EU) 2015/863 • EN IEC 63000: 2018
	Others	• Equipment Radio Regulations: 2008 (including amendments) • VCCI-CISPR 32
Certifications		• Wi-Fi Alliance: Wi-Fi 7 (R1), Wi-Fi 6 (R2), Wi-Fi 6E, WPA3-R3, WPA3-Suite B, • FCC/CE/NCC/VCCI/JRF/BSMI

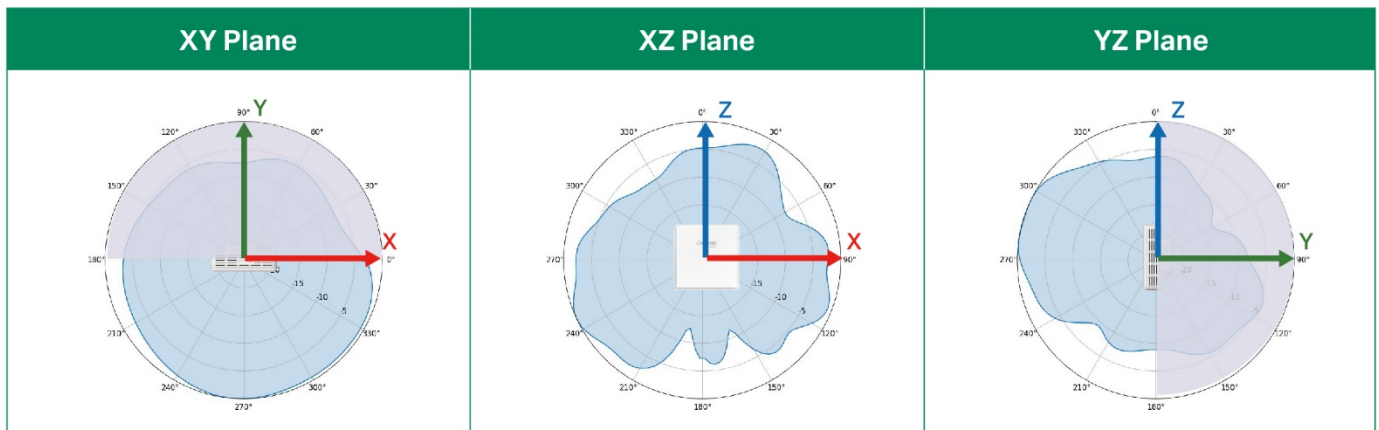
RF Performance

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	14	-94
		MCS7	14	--75.5
	802.11n, HT40	MCS0	14	-91.5
		MCS7	14	-72
	802.11ax, HE20	MCS0	14	-95.5
		MCS11	14	-65.5
	802.11ax, HE40	MCS0	14	-94
		MCS11	14	-63.5
	802.11be, EHT20	MCS0	14	-96.5
		MCS13	14	-60
	802.11be, EHT40	MCS0	14	-94
		MCS13	14	-57
5 GHz	802.11n, HT20	MCS0	17	-93.5
		MCS7	16	-74.5
	802.11n, HT40	MCS0	17	-90.5
		MCS7	16	-71.5
	802.11ac, VHT20	MCS0	17	-95
		MCS7	15	-69.5
	802.11ac, VHT40	MCS0	17	-92
		MCS9	15	-67.5
	802.11ac, VHT80	MCS0	17	-89
		MCS9	15	-64.5
	802.11ax, HE20	MCS0	17	-94
		MCS11	14.5	-64.5
	802.11ax, HE40	MCS0	17	-93
		MCS11	14.5	-62
	802.11ax, HE80	MCS0	17	-89
		MCS11	14.5	-59.5
	802.11ax, HE160	MCS0	17	-86

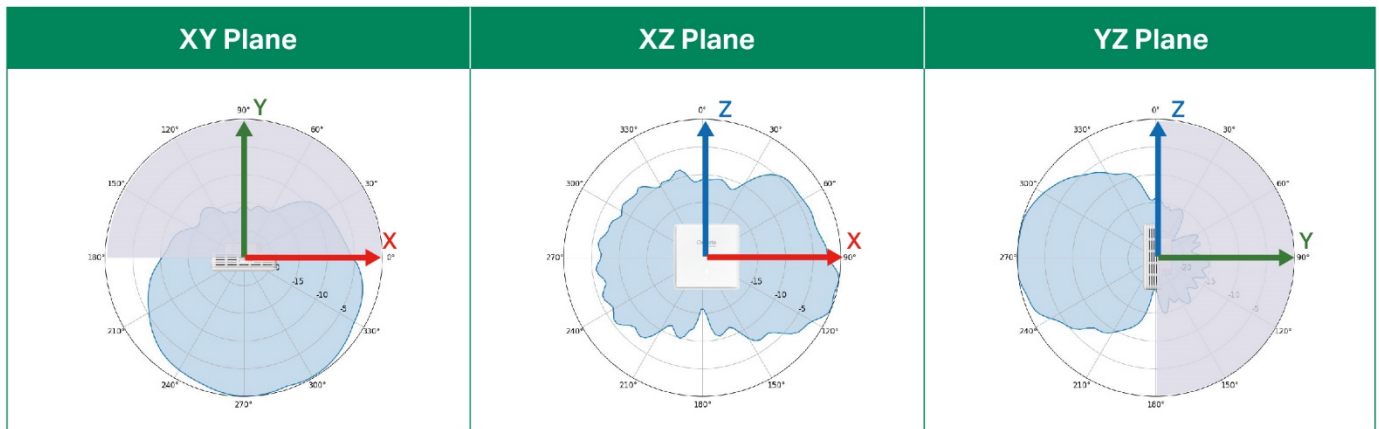
Frequency Band	Wi-Fi Protocol & Bandwidth	MCS Index / Data Rate	EU/US Maximum Transmit Power (dBm) per transmit chain	Receiver Sensitivity (dBm) per receive chain
	802.11be, EHT20	MCS11	14.5	-56
		MCS0	17	-95
	802.11be, EHT40	MCS13	13.5	-58
		MCS0	17	-92.5
	802.11be, EHT80	MCS13	13.5	-55.5
		MCS0	17	-89
	802.11be, EHT 160	MCS13	13.5	-53
		MCS0	17	-86
		MCS13	13.5	-50

Antenna Radiation Patterns

2.4 GHz



5 GHz



Package Contents

Item	Quantity
EAP720-Wall	1
Installation Guide	1
Screws	4



*The accessories may vary by country/region. Please refer to the actual product.

Support Services

We are committed to providing you with comprehensive and reliable support services to ensure seamless experience with TP-Link Business products.

- Email Contact: <https://support.omadanetworks.com/email-feedback/>
- Online Chat Contact: <https://support.omadanetworks.com/contact-support/>
- Warranty Services: <https://www.omadanetworks.com/support/replacement-warranty/>

Revision History

Version	Date	Description
V1.0	2025-07-31	Initial release.

[†] Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. The 160 MHz bandwidth is only available on the 5 GHz band. It may be unavailable in some regions/countries due to regulatory restrictions. Actual wireless data throughput, wireless coverage, and connected devices are not guaranteed and will vary as a result of internet service provider factors, network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location.

[‡] 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.

^{**} The 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.

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.

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