# Omada BE5000(US) / BE3600(EU) Dual Band Ceiling Mount Wi-Fi 7 Access Point
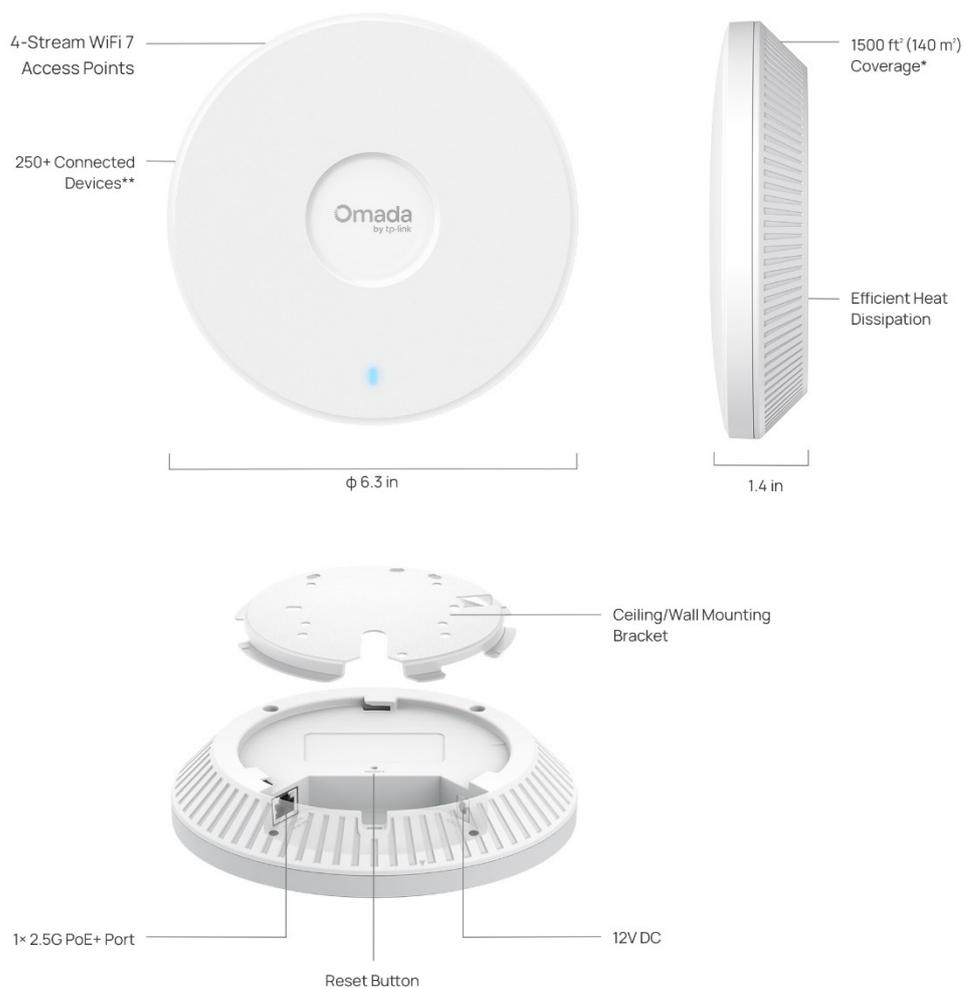
Model: EAP723

# Product Overview

The Omada BE5000(US) / BE3600(US) Dual-Band Ceiling Mount Access Point EAP723 is the ideal choice for a Wi-Fi 7 solution, delivering a fast, reliable, and secure dual-band Wi-Fi 7 experience.

- **Dual-Band Wi-Fi 7:** Up to 5.0 Gbps for the US and up to 3.6 Gbps for the EU.[†]
- **1× 2.5G Port:** Ensures fast connectivity throughout the network.
- **Low Latency and Interference:** Multi-Link Operation, Multi-RUs, and 4K-QAM ensure high performance for your network.[‡]
- **Flexible Deployment and Easy Setup:** Supports both 802.3at PoE and DC power supply for flexible installation (power adapter not included) 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 clients[**] and covers up to 1500 ft² (140 m²) [*] for reliable and extensive wireless connectivity.

# Product Appearance



4-Stream WiFi 7 Access Points

250+ Connected Devices**

φ 6.3 in

1500 ft² (140 m²) Coverage*

Efficient Heat Dissipation

1.4 in

Ceiling/Wall Mounting Bracket

1× 2.5G PoE+ Port

Reset Button

12V DC

*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 EAP723 significantly enhances throughput, connection stability, and concurrent capacity, ensuring faster and higher quality connections for more devices.
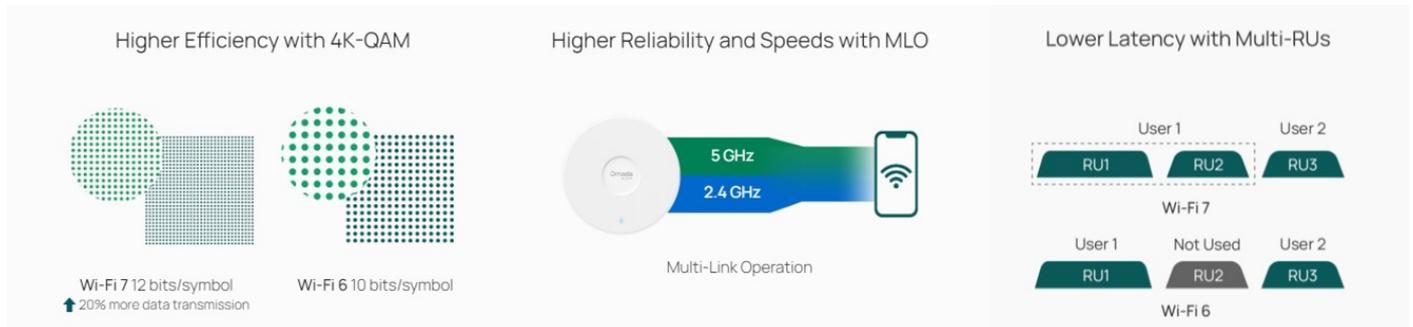


## 2.5G PoE+ Port for Optimized Wired Performance

With a 2.5 Gigabit Ethernet Port, EAP723 delivers remarkable multi-gigabit performance for higher bandwidth and faster Wi-Fi. Compatibility with 802.3at PoE is ideal for flexible deployment.

## Easy Setup

Push up and rotate to lock for easy installation. Benefit from convenient setup and on-the-go network management via the Omada app or web interface.

## Boosted Network Security

EAP723 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, EAP723 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<br>2.4 GHz: IEEE 802.11b/g/n/ax/be |
| 802.11be | Spatial Streams | • 2.4 GHz: 2×2 MIMO with 2 spatial streams<br>• 5 GHz: 2×2 MIMO with 2 spatial streams |
| | Frequency Bands | 2.400 to 2.4835 GHz ISM<br>5.150 to 5.250 GHz U-NII-1<br>5.250 to 5.350 GHz U-NII-2A<br>5.470 to 5.725 GHz U-NII-2C<br>5.725 to 5.850 GHz U-NII-3/ISM<br>*Note: Country-Specific Restriction Apply |
| | Bandwidth | 2.4 GHz: 20 MHz/40 MHz<br>5 GHz: 20 MHz/40 MHz/80 MHz/160 MHz/240 MHz<br>*Note: Country-Specific Restriction Apply |
| | Wireless Data Rate | 2.4 GHz + 5 GHz: 5012 Mbps<br>• 2.4 GHz: 8.6 Mbps to 688 Mbps (MCS0-MCS13, NSS=1 to 2, EHT20/40)<br>• 5 GHz: 8.6 Mbps to 4324 Mbps (MCS0-MCS13, NSS=1 to 2, EHT20/40/80/160/240) |
| | 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<br>• A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx |
| | Others | • Preamble Puncturing<br>• BSS Coloring<br>• Multi-Link Operation (MLO)<br>• Maximal Ratio Combining (MRC)<br>• Transmit Beamforming (TxBF)<br>• Wi-Fi Protect Access 3 (WPA3)<br>• Dynamic Frequency Selection (DFS)<br>• Cycle Delay Diversity (CDD)<br>• Cycle Shift Diversity (CSD)<br>• Space-Time Block Coding (STBC)<br>• Low-Density Parity Check (LDPC) |
| 802.11ax | Spatial Streams | • 2.4 GHz: 2×2 MIMO with 2 spatial streams<br>• 5 GHz: 2×2 MIMO with 2 spatial streams |

| Item | | Description |
|---|---|---|
| | Frequency Bands | 2.400 to 2.4835 GHz ISM<br>5.150 to 5.250 GHz U-NII-1<br>5.250 to 5.350 GHz U-NII-2A<br>5.470 to 5.725 GHz U-NII-2C<br>5.725 to 5.850 GHz U-NII-3/ISM<br>*Note: Country-Specific Restriction Apply |
| | Bandwidth | 2.4 GHz: 20 MHz/40 MHz<br>5 GHz: 20 MHz/40 MHz/80 MHz/160 MHz<br>*Note: Country-Specific Restriction Apply |
| | Wireless Data Rate | • 2.4 GHz: 8.6 Mbps to 574 Mbps (MCS0-MCS11, NSS=1 to 2, HE20/40)<br>• 5 GHz: 8.6 Mbps to 2402 Mbps (MCS0-MCS11, NSS=1 to 2, HE20/40/80/160)<br>*Note: Country-Specific Restriction Apply |
| | 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<br>• A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx |
| | Others | • MRC (Maximal Ratio Combining)<br>• TxBF (Transmit Beamforming)<br>• WPA3 (Wi-Fi Protect Access 3)<br>• DFS (Dynamic Frequency Selection)<br>• CDD (Cycle Delay Diversity)<br>• CSD (Cycle Shift Diversity)<br>• STBC (Space-Time Block Coding)<br>• LDPC (Low-Density Parity-Check) |
| 802.11ac | Spatial Streams | • 5 GHz: 2×2 MIMO with 2 spatial streams |
| | Frequency Bands | 5.150 to 5.250 GHz U-NII-1<br>5.250 to 5.350 GHz U-NII-2A<br>5.470 to 5.725 GHz U-NII-2C<br>5.725 to 5.850 GHz U-NII-3/ISM<br>*Note: Country-Specific Restriction Apply |
| | 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<br>• A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx |

| Item | | Description |
|---|---|---|
| | Others | • MRC (Maximal Ratio Combining)<br>• TxBF (Transmit Beamforming)<br>DFS (Dynamic Frequency Selection)<br>• CDD (Cycle Delay Diversity)<br>• CSD (Cycle Shift Diversity)<br>• STBC (Space-Time Block Coding)<br>• LDPC (Low-Density Parity-Check) |
| 802.11n | Spatial Streams | • 2.4 GHz: 2×2 MIMO with 2 spatial streams<br>• 5 GHz: 2×2 MIMO with 2 spatial streams |
| | Frequency Bands | 2.400 to 2.4835 GHz ISM<br>5.150 to 5.250 GHz U-NII-1<br>5.250 to 5.350 GHz U-NII-2A<br>5.470 to 5.725 GHz U-NII-2C<br>5.725 to 5.850 GHz U-NII-3/ISM<br>*Note: Country-Specific Restriction Apply |
| | 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)<br>• 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<br>• A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx |
| | Others | • MRC (Maximal Ratio Combining)<br>• TxBF (Transmit Beamforming)<br>• DFS (Dynamic Frequency Selection)<br>• CDD (Cycle Delay Diversity)<br>• CSD (Cycle Shift Diversity)<br>• STBC (Space-Time Block Coding)<br>• LDPC (Low-Density Parity-Check) |
| Antenna | Wi-Fi | • 2.4 GHz: 2 × 4 dBi (peak gain), Internal Onboard antenna<br>• 5 GHz: 2 × 5 dBi (peak gain), Internal Onboard antenna<br>*Note: The gains above are the single-antenna peak gains. |
| | IoT | • Bluetooth: 1 × 3 dBi (peak gain), PCB printed antenna |
| Interfaces | | • 1 x 10M/100M/1000M/2.5Gbps Multigigabit Ethernet Port (RJ45); PoE in |
| IoT | | BLE 5.2, 1Mbps |
| Memory | | • Flash: 128Mbit<br>• DRAM: 4096Mbit |
| Button | | 1 × Reset button: Press the button for longer than 5 seconds to make the device restore to factory settings. |

| Item | Description | |
|---|---|---|
| Indicator | 1 × blue LED on the front:<br>• Power-on status<br>• Firmware initialization or upgrade status<br>• Uplink service status<br>• Error status | |
| Reliability | MTBF (Mean Time between Failure) | 408000 hours at the operating temperature of 25℃ (77℉) |
| Power Supply | Input | 802.3at PoE+: 42.5 - 57 V, 0.6A ;DC: 12V, 1.5A |
| | Output | / |
| Power Consumption | • 802.3at (PoE+): 17.8w, 2.4GHz radio 2×2, 5GHz radio 2×2 , wired link rate can be up to 2.5 Gbps, etc.<br>• Idle mode: 6.7W(PoE) | |
| Surge/Lightning Protection | Ethernet Ports: ±4 kV | |
| ESD/EMP Protection | • Air discharge: ±8 kV<br>• Contact discharge: ±4 kV<br>*Note: ESD/EMP Protection means Electrostatic Discharge/Electromagnetic Pulse Protection independently. | |
| Tx Power | Maximum transmit power | CE (ERIP)<br>• 2.4 GHz: 20 dBm<br>• 5 GHz: 23 dBm in U-NII-1, 23 dBm in U-NII-2A, 28 dBm in U-NII-2C,<br>FCC (Conducted Power)<br>• 2.4 GHz: 25 dBm<br>• 5 GHz: 25 dBm in U-NII-1, 24 dBm in U-NII-2A, 24 dBm in U-NII-2C, 25 dBm in U-NII-3<br>*Note: MIMO combined power, excluding antenna gains. The actual transmit power depends on local laws and regulations. |
| | Minimum transmit power | CE (ERIP)<br>• 2.4 GHz: 7 dBm<br>• 5 GHz: 7 dBm in U-NII-1, 7 dBm in U-NII-2A, 7 dBm in U-NII-2C, 7 dBm in U-NII-3<br>FCC (Conducted Power)<br>• 2.4 GHz: 4 dBm<br>• 5 GHz: 4 dBm in U-NII-1, 4 dBm in U-NII-2A, 4 dBm in U-NII-2C, 4dBm in U-NII-3<br>*Note: MIMO combined power, excluding antenna gains. The actual transmit power depends on local laws and regulations. |
| | Adjustable power increment | 1 dBm |
| Environment | Temperature | • Operating: 0℃ to +40℃ (32℉ to +104℉)<br>• Storage: -40℃ to +70℃ (-40℉ to +158℉) |

| Item | | Description |
|---|---|---|
| | Humidity | • Operating: 10% to 90% (non-condensing)<br>• Storage: 5% to 90% (non-condensing) |
| | Altitude | • Storage: up to + 2000 m (6561 feet)<br>• Operating: up to + 2000 m (6561 feet) |
| Unit | Dimensions (W×D×H) | • Main Unit: 160 × 160 × 36.7 mm (6.3 × 6.3 × 1.4 in.)<br>• Shipping Unit: 245 × 228 × 65 mm (9.7 × 9.0 × 2.6 in.) |
| | Weight | • Main Unit: 0.41 kg (0.9 lb)<br>• Mounting Bracket: 0.05 kg (0.11 lb)<br>• Shipping Unit: 0.79 kg (1.74 lb) |
| | Mounting | • Ceiling /Wall Mounting (Kits included)<br>• Junction Box Mounting  (Kits included)<br>• T-Bar Mounting (Kits 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<br>• Client Rate Limit |
| | Load Balance | • Maximum Associated Clients<br>• RSSI Threshold |
| | MLO | • 2.4 GHz+5 GHz |
| | Roaming | • 802.11 k<br>• 802.11v<br>• 802.11r<br>• AI Roaming<br>*Note: Only support Layer 2 Roaming currently. |
| | Multicast/Broadcast Management | • Multicast-to-Unicast Conversion<br>• ARP-to-Unicast Conversation<br>• Multicast Filtering |
| | QoS (Quality of Service) | • WMM (Wi-Fi Multimedia)<br>• DSCP (Differentiated Services Code Point)<br>• U-APSD (Unscheduled Automatic Power Save Delivery) |
| Security and Authentication | ACL | |
| | MAC Filter | |
| | 802.1X Authentication | |

| Item | Description | |
|---|---|---|
| | MAC-Based Authentication | |
| | • None<br>• Enhanced Open<br>• WPA/WPA2/WPA3-Personal<br>• WPA/WPA2/WPA3-Enterprise | |
| | Radius Accounting | |
| | • PPSK without Radius<br>• PPSK with Radius (Generic Radius with bound MAC/EKMS/Generic Radius with unbound MAC) | |
| | Captive Portal | • No Authentication<br>• Simple Password<br>• Hotspot (Voucher / Local User / SMS / RADIUS / Form Auth)<br>• RADIUS Server<br>• External LDAP Server<br>• External Portal Server<br>• Pre-Authentication Access<br>• Authentication-Free Client |
| | EAP Types | • EAP-TLS<br>• EAP-TTLS<br>• EAP-PEAP<br>• EAP-CHAP<br>• EAP-SIM<br>• EAP-AKA<br>• EAP-GTC<br>• EAP-FAST<br>• EAP-PEAP<br>• EAP-MD5<br>• EAP-MSCHAPv2<br>• PEAPv0<br>• PEAPv1 |
| Management methods | Omada Controller | • Omada Controller V5.9.x and above<br>• Omada Essential V5.9.x and above |
| | App | Omada App V4.20 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 |

| Item | Description | |
|---|---|---|
| | Reboot Schedule | Yes |
| | 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<br>• Dynamic VLAN<br>• Management VLAN |
| | Static IP / DHCP Client | Yes |
| | IPv4/IPv6 | Yes |
| | LLDP (Link Layer Discovery Protocol) | Yes |
| | mDNS | Yes |
| | Tools | • Ping / Traceroute / DNSLookup<br>• Packet Capture<br>• Terminal |

# Standards Compliance and Certifications

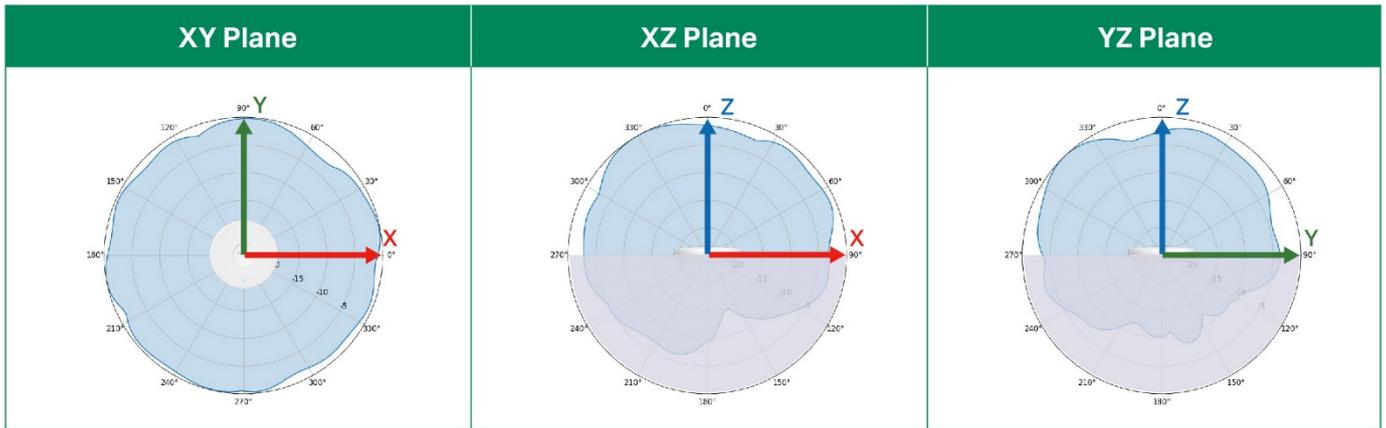| Item | Category | Description |
|---|---|---|
| Standards compliance | IEEE Standards | • IEEE 802.11a/b/g/n/ac/ax/be<br>• IEEE 802.11e/i/k/v/r<br>• IEEE 802.1x/q<br>• IEEE 802.3at<br>• IEEE 802.3ab<br>• IEEE 802.3bz<br>• IEEE 802.3x |
| | Radio Standards | • ETSI EN 300 328<br>• ETSI EN 301 893<br>• EN 303 413<br>• EN 303 687<br>• EN 50385 EN50665 EN IEC 62311<br>• FCC Part 15E<br>• RSS-247, RSS-GEN<br>• LP0002 |
| | EMC standards | • EN 55032<br>• EN 55035<br>• EN 301489-1<br>• EN 301489-17<br>• EN 301489-19<br>• FCC Part 15C<br>• ICES-003 issue7<br>• CNS 15936 |
| | Safety Standards | • EN 62368-1<br>• IEC 62368-1<br>• CNS 15598-1 |
| | Security Standards | • WPA-Personal/Enterprise<br>• WPA2-Personal/Enterprise<br>• WPA3-Personal/Enterprise |
| | RoHS | • Directive 2011/65/EU, Directive (EU) 2015/863<br>• EN IEC 63000: 2018 |
| | Others | • Equipment Radio Regulations: 2008 (including amendments)<br>• VCCI-CISPR 32 |
| Certifications | | • Wi-Fi Alliance: Wi-Fi 7 (R1), Wi-Fi 6 (R2), Wi-Fi 6E, WPA3-R3, WPA3-Suite B,<br>• FCC/CE/NCC/VCCI/JRF/BSMI |

# RF Performance

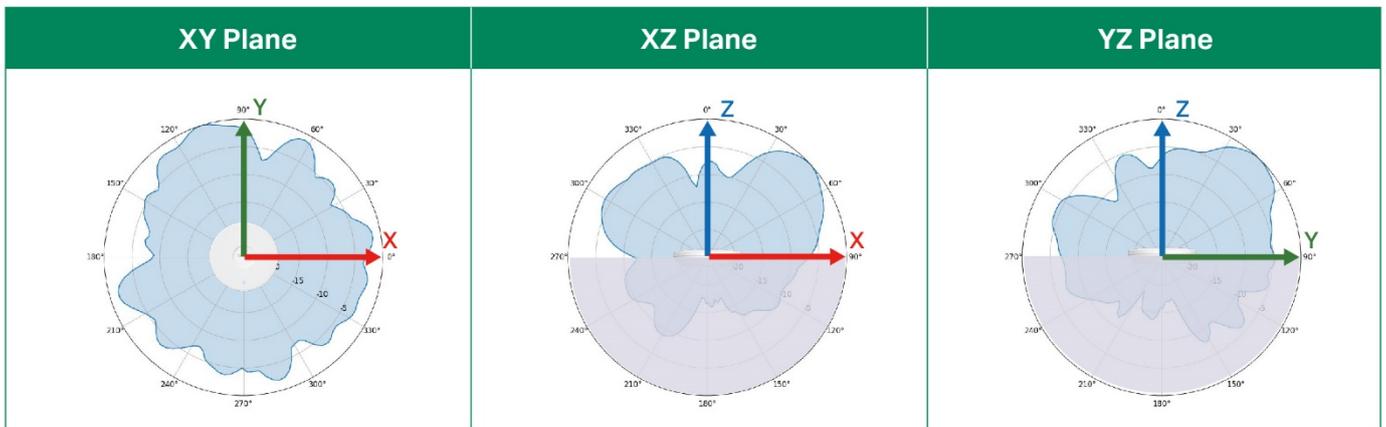| Frequency Band | Wi-Fi Protocol & Bandwidth | MCS Index / Data Rate | EU/US Maximum Transmit Power (dBm) per transmit chain | Receiver Sensitivity (dBm) per receive chain |
|---|---|---|---|---|
| 2.4 GHz | 802.11n, HT20 | MCS0 | 14/22 | -96 |
| | | MCS7 | 14/22 | -77 |
| | 802.11n, HT40 | MCS0 | 14/22 | -93 |
| | | MCS7 | 14/22 | -74 |
| | 802.11ax, HE20 | MCS0 | 14/22 | -96 |
| | | MCS11 | 14/20 | -66 |
| | 802.11ax, HE40 | MCS0 | 14/22 | -94 |
| | | MCS11 | 14/20 | -63 |
| | 802.11be, EHT20 | MCS0 | 14/22 | -96 |
| | | MCS13 | 14/19 | NA |
| | 802.11be, EHT40 | MCS0 | 14/22 | -93 |
| | | MCS13 | 14/19 | NA |
| 5 GHz | 802.11n, HT20 | MCS0 | 22/22 | -96 |
| | | MCS7 | 21/21 | -76 |
| | 802.11n, HT40 | MCS0 | 22/22 | -93 |
| | | MCS7 | 21/21 | -72.5 |
| | 802.11ac, VHT20 | MCS0 | 22/22 | -96 |
| | | MCS7 | 21/21 | -76 |
| | 802.11ac, VHT40 | MCS0 | 22/22 | -93 |
| | | MCS9 | 20/20 | -67 |
| | 802.11ac, VHT80 | MCS0 | 22/22 | -89.5 |
| | | MCS9 | 20/20 | -64 |
| | 802.11ax, HE20 | MCS0 | 22/22 | -96 |
| | | MCS11 | 19/19 | -67 |
| | 802.11ax, HE40 | MCS0 | 22/22 | -93 |
| | | MCS11 | 19/19 | -64.5 |
| | 802.11ax, HE80 | MCS0 | 22/22 | -89.5 |
| | | MCS11 | 19/19 | -61 |
| | 802.11ax, HE160 | MCS0 | 22/22 | -88 |

| 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 |
|---|---|---|---|---|
| | | MCS11 | 18/18 | -61 |
| | 802.11be, EHT20 | MCS0 | 22/22 | -96 |
| | | MCS13 | 18/18 | -60 |
| | 802.11be, EHT40 | MCS0 | 22/22 | -93 |
| | | MCS13 | 18/18 | -57 |
| | 802.11be, EHT80 | MCS0 | 22/22 | -90 |
| | | MCS13 | 18/18 | -55 |
| | 802.11be, EHT160 | MCS0 | 22/22 | -88 |
| | | MCS13 | 18/18 | -55 |

# Antenna Radiation Patterns

## 2.4 GHz

| XY Plane | XZ Plane | YZ Plane |
|---|---|---|
|  |  |  |

## 5 GHz

| XY Plane | XZ Plane | YZ Plane |
|---|---|---|
|  |  |  |

# Package Contents

| Item | Quantity |
|---|---|
| EAP723 | 1 |
| Installation Guide | 1 |
| Mounting Kit | 1 |

Mounting Bracket

Wing Nuts

Washers

EAP723

Plastic Wall
Anchors

Screws

T-bar Mounts

*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 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 | 2025-09-16 | Initial release. |

† Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. The 240 MHz bandwidth and 160 MHz are only available on the 5GHz band and 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), 240 MHz Bandwidth, 160 MHz Bandwidth, 4K-QAM, Multi-RUs, OFDMA, and MIMO requires clients to also support the corresponding features.

* 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.

△ 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.