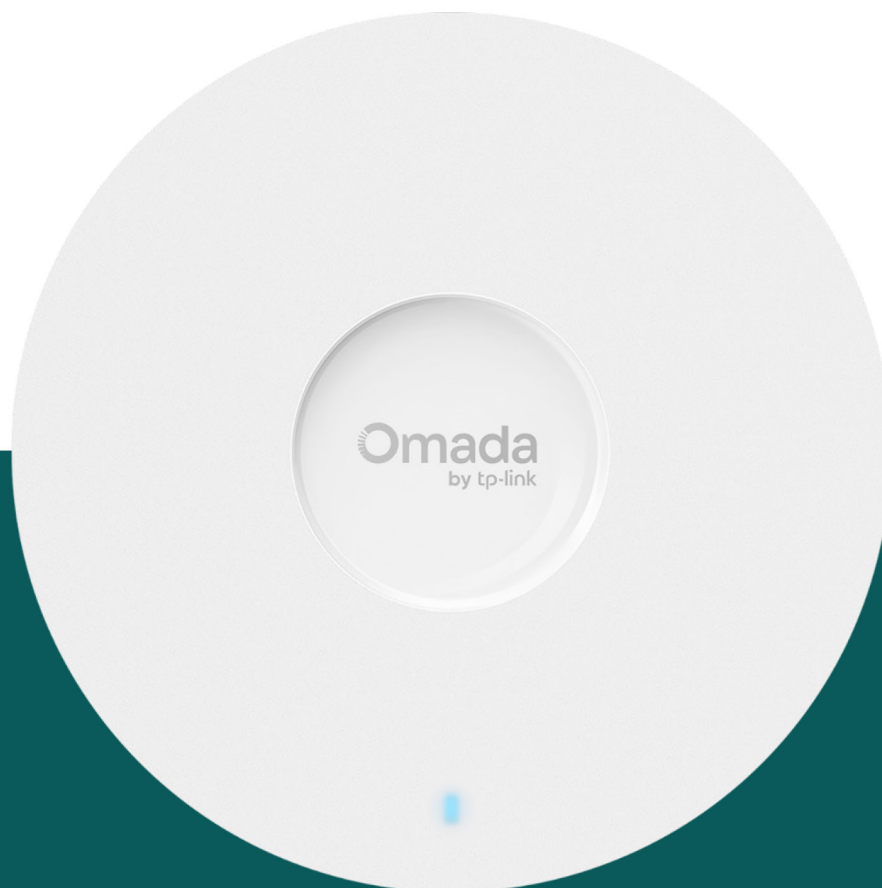




# **AX1800 Ceiling Mount Wi-Fi 6 Access Point**

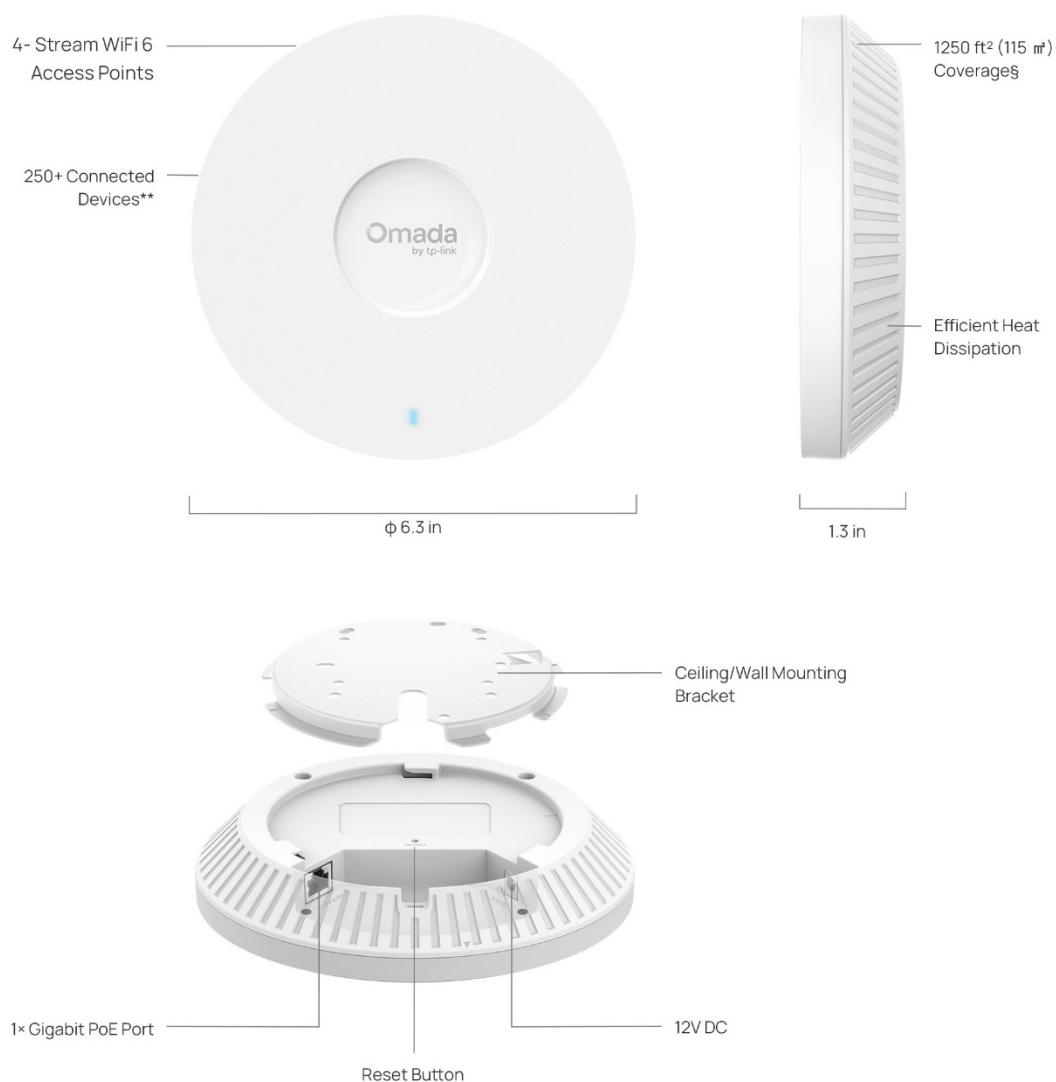
Model: EAP610

# Product Overview

The Omada AX1800 4-Stream Dual-Band Ceiling Mount Access Point EAP610 is the ideal choice for an entry-level Wi-Fi 6 solution, delivering a fast, reliable, and secure dual-band Wi-Fi 6 experience.

- **4-Stream Dual-Band Wi-Fi 6:** 1201 Mbps on 5 GHz and 574 Mbps on 2.4 GHz.<sup>†</sup>
- **1× Gigabit Port:** Ensures fast connectivity throughout the network.
- **Low Latency and Interference:** MU-MIMO, OFDMA, and 1024-QAM ensure high performance for your network.<sup>‡</sup>
- **Flexible Deployment and Easy Setup:** Supports 802.3af PoE, Passive PoE, and DC power (adapter included) for versatile installation with one-click setup via Omada SDN.
- **Advanced Features:** Supports centralized management, Mesh, and Seamless Roaming.<sup>Δ</sup>
- **More Connections, Wider Coverage:** Supports 250+ concurrent clients\*\* and covers up to 1,250 ft<sup>2</sup> (115 m<sup>2</sup>)\* for reliable and extensive wireless connectivity.

## Product Appearance



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

§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.

# Feature Descriptions

## Omada Wi-Fi 6 Technology

Wi-Fi 6 (802.11ax) supports up to 8×8 UL/DL MU-MIMO, OFDMA, and 1024-QAM, making it an ideal choice for high-performance wireless networks. OFDMA allows multiple devices to share channels efficiently, reducing latency and improving performance in dense environments. MU-MIMO supports more simultaneous device connections, enhancing overall network capacity. 1024-QAM increases data transmission rates, delivering 25% faster speeds compared to Wi-Fi 5.



Higher Efficiency with OFDMA



More Simultaneous Connections with MU-MIMO

## Gigabit PoE Port for Optimized Wired Performance

Boost overall network efficiency with a high-performance Gigabit PoE port, delivering blazing-fast data speeds. Compatibility with 802.3af PoE and Passive 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

EAP610 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, EAP610 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<br>2.4 GHz: IEEE 802.11b/g/n/ax |                                                                                                                                                                                                                                                                                                                                                                   |
| 802.11ax        | Spatial Streams                                             | <ul style="list-style-type: none"> <li>2.4 GHz: 2×2 Uplink/Downlink MU-MIMO with 2 spatial streams</li> <li>5 GHz: 2×2 Uplink/Downlink MU-MIMO with 2 spatial streams</li> </ul>                                                                                                                                                                                  |
|                 | 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><a href="#">*Note: Country-Specific Restriction Apply</a>                                                                                                                                                |
|                 | Bandwidth                                                   | 2.4 GHz: 20 MHz/40 MHz<br>5 GHz: 20 MHz/40 MHz/80 MHz<br><a href="#">*Note: Country-Specific Restriction Apply</a>                                                                                                                                                                                                                                                |
|                 | Wireless Data Rate                                          | <ul style="list-style-type: none"> <li>2.4 GHz: 8.6 Mbps to 574 Mbps (MCS0-MCS11, NSS=1 to 2, HE20/40)</li> <li>5 GHz: 8.6 Mbps to 1201 Mbps (MCS0-MCS11, NSS=1 to 2, HE20/40/80)</li> </ul> <a href="#">*Note: Country-Specific Restriction Apply</a>                                                                                                            |
|                 | Radio Technology                                            | Uplink/downlink OFDMA (Orthogonal Frequency-Division Multiple Access)                                                                                                                                                                                                                                                                                             |
|                 | Modulation Type                                             | 1024-QAM, 256-QAM, 64-QAM, 16-QAM, QPSK, BPSK                                                                                                                                                                                                                                                                                                                     |
|                 | Frame Aggregation                                           | <ul style="list-style-type: none"> <li>A-MPDU (Aggregate MAC Protocol Data Unit) for Tx/Rx</li> <li>A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx</li> </ul>                                                                                                                                                                                                 |
|                 | Others                                                      | <ul style="list-style-type: none"> <li>MRC (Maximal Ratio Combining)</li> <li>TxBF (Transmit Beamforming)</li> <li>WPA3 (Wi-Fi Protect Access 3)</li> <li>DFS (Dynamic Frequency Selection)</li> <li>CDD (Cycle Delay Diversity)</li> <li>CSD (Cycle Shift Diversity)</li> <li>STBC (Space-Time Block Coding)</li> <li>LDPC (Low-Density Parity-Check)</li> </ul> |
| 802.11ac        | Spatial Streams                                             | <ul style="list-style-type: none"> <li>5 GHz: 2×2 Downlink MU-MIMO with 2 spatial streams</li> </ul>                                                                                                                                                                                                                                                              |
|                 | 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><a href="#">*Note: Country-Specific Restriction Apply</a>                                                                                                                                                                           |
|                 | Bandwidth                                                   | 5 GHz: 20 MHz/40 MHz/80 MHz                                                                                                                                                                                                                                                                                                                                       |

| Item    | Description        |                                                                                                                                                                                                                                                                                                                                                                   |
|---------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | Wireless Data Rate | <ul style="list-style-type: none"> <li>5 GHz: 6.5Mbps to 867Mbps (MCS0-MCS9, NSS=1 to 2, VHT20/40/80)</li> </ul>                                                                                                                                                                                                                                                  |
|         | Radio Technology   | OFDM (Orthogonal Frequency-Division Multiplexing)                                                                                                                                                                                                                                                                                                                 |
|         | Modulation Type    | 256-QAM, 64-QAM, 16-QAM, QPSK, BPSK                                                                                                                                                                                                                                                                                                                               |
|         | Frame Aggregation  | <ul style="list-style-type: none"> <li>A-MPDU (Aggregate MAC Protocol Data Unit) for Tx/Rx</li> <li>A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx</li> </ul>                                                                                                                                                                                                 |
|         | Others             | <ul style="list-style-type: none"> <li>MRC (Maximal Ratio Combining)</li> <li>TxBF (Transmit Beamforming)</li> <li>WPA3 (Wi-Fi Protect Access 3)</li> <li>DFS (Dynamic Frequency Selection)</li> <li>CDD (Cycle Delay Diversity)</li> <li>CSD (Cycle Shift Diversity)</li> <li>STBC (Space-Time Block Coding)</li> <li>LDPC (Low-Density Parity-Check)</li> </ul> |
| 802.11n | Spatial Streams    | <ul style="list-style-type: none"> <li>2.4 GHz: 2×2 MIMO with 2 spatial streams</li> <li>5 GHz: 2×2 MIMO with 2 spatial streams</li> </ul>                                                                                                                                                                                                                        |
|         | 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 | <ul style="list-style-type: none"> <li>2.4 GHz: 6.5Mbps to 300 Mbps (MCS0-MCS7, NSS=1 to 2, HT20/40)</li> <li>5 GHz: 6.5Mbps to 300 Mbps (MCS0-MCS7, NSS=1 to 2, HT20/40)</li> </ul>                                                                                                                                                                              |
|         | Radio Technology   | OFDM (Orthogonal Frequency-Division Multiplexing)                                                                                                                                                                                                                                                                                                                 |
|         | Modulation Type    | 64-QAM, 16-QAM, QPSK, BPSK                                                                                                                                                                                                                                                                                                                                        |
|         | Frame Aggregation  | <ul style="list-style-type: none"> <li>A-MPDU (Aggregate MAC Protocol Data Unit) for Tx/Rx</li> <li>A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx</li> </ul>                                                                                                                                                                                                 |
|         | Others             | <ul style="list-style-type: none"> <li>MRC (Maximal Ratio Combining)</li> <li>TxBF (Transmit Beamforming)</li> <li>WPA3 (Wi-Fi Protect Access 3)</li> <li>DFS (Dynamic Frequency Selection)</li> <li>CDD (Cycle Delay Diversity)</li> <li>CSD (Cycle Shift Diversity)</li> <li>STBC (Space-Time Block Coding)</li> <li>LDPC (Low-Density Parity-Check)</li> </ul> |

| Item                       | Description                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Antenna                    | Wi-Fi                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>2.4 GHz: 2 × 4 dBi (peak gain), internal omnidirectional antennas</li> <li>5 GHz: 2 × 5 dBi (peak gain), internal omnidirectional antennas</li> <li>The down tilt angle for maximum gain: 2.4G:30° to 45°; 5G:15° to 30°</li> </ul> <p><i>*Note: The gains above are the single-antenna peak gains.</i></p>                                                                                     |
| Interfaces                 | <ul style="list-style-type: none"> <li>1 × 10M/100M/1000M Multigigabit Ethernet Port (RJ45); PoE in</li> <li>1 × DC power interface: 12VDC</li> </ul>                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Memory                     | <ul style="list-style-type: none"> <li>Flash: 128Mbit</li> <li>DRAM: 2Gbit</li> </ul>                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Button                     | 1 × Reset button: Press the button for longer than 5 seconds to make the device restore to factory settings.                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Indicator                  | 1 × single-color system LED indicates on the front: <ul style="list-style-type: none"> <li>Power-on status</li> <li>Firmware initialization or upgrade status</li> <li>Uplink service status</li> <li>Error status</li> </ul>  |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Reliability                | MTBF (Mean Time between Failure)                                                                                                                                                                                               | EU:1110227 hours at the operating temperature of 25°C (77°F) ;<br>US: 676566 hours at the operating temperature of 25°C (77°F)                                                                                                                                                                                                                                                                                                         |
| Power Supply               | Input                                                                                                                                                                                                                          | 802.3af PoE: 36 - 57 V=0.36A; 12 V/1 A DC                                                                                                                                                                                                                                                                                                                                                                                              |
|                            | Output                                                                                                                                                                                                                         | /                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Power Consumption          | <ul style="list-style-type: none"> <li>802.3af (PoE): 10.9w, 2.4GHz radio 2×2, 5GHz radio 2×2.</li> <li>Idle mode: 4.3W(PoE); 3.6W(DC)</li> </ul>                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Surge/Lightning Protection | Ethernet Ports: ±2 kV                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ESD/EMP Protection         | <ul style="list-style-type: none"> <li>Air discharge: ±8 kV</li> <li>Contact discharge: ±4 kV</li> </ul> <p><i>*Note: ESD/EMP Protection means Electrostatic Discharge/Electromagnetic Pulse Protection independently.</i></p> |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Tx Power                   | Maximum transmit power                                                                                                                                                                                                         | CE (ERIP) <ul style="list-style-type: none"> <li>2.4 GHz: 20 dBm</li> <li>5 GHz: 23 dBm in U-NII-1, 23 dBm in U-NII-2A, 27 dBm in U-NII-2C</li> </ul> FCC (Conducted Power) <ul style="list-style-type: none"> <li>2.4 GHz: 24 dBm</li> <li>5 GHz: 24 dBm in U-NII-1, 24 dBm in U-NII-3</li> </ul> <p><i>*Note: MIMO combined power, excluding antenna gains. The actual transmit power depends on local laws and regulations.</i></p> |
|                            | Minimum transmit power                                                                                                                                                                                                         | CE (ERIP) <ul style="list-style-type: none"> <li>2.4 GHz: 7 dBm</li> <li>5 GHz: 7 dBm in U-NII-1, 7 dBm in U-NII-2A, 7 dBm in U-NII-2C</li> </ul> FCC (Conducted Power) <ul style="list-style-type: none"> <li>2.4 GHz: 4 dBm</li> <li>5 GHz: 4 dBm in U-NII-1</li> </ul> <p><i>*Note: MIMO combined power, excluding antenna gains. The actual transmit power depends on local laws and regulations.</i></p>                          |

| Item        | Description                |                                                                                                                                                                                 |
|-------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | Adjustable power increment | 1 dB                                                                                                                                                                            |
| Environment | Temperature                | <ul style="list-style-type: none"> <li>Operating: 0°C to +40°C (32°F to +104°F)</li> <li>Storage: -40°C to +70°C (-40°F to +158°F)</li> </ul>                                   |
|             | Humidity                   | <ul style="list-style-type: none"> <li>Operating: 10% to 90% (non-condensing)</li> <li>Storage: 5% to 90% (non-condensing)</li> </ul>                                           |
|             | Altitude                   | <ul style="list-style-type: none"> <li>Storage: up to + 2000 m (6561feet)</li> <li>Operating: up to + 2000 m (6561feet)</li> </ul>                                              |
| Unit        | Dimensions (W×D×H)         | <ul style="list-style-type: none"> <li>Main Unit: 160 × 160 × 33.6 mm (6.3 × 6.3 × 1.3 in.)</li> <li>Shipping Unit: 245 × 228 × 65 mm (9.7 × 9.0 × 2.6 in.)</li> </ul>          |
|             | Weight                     | <ul style="list-style-type: none"> <li>Main Unit: 0.385 kg (0.85 lb)</li> <li>Mounting Bracket: 0.05 kg (0.11 lb)</li> <li>Shipping Unit: 0.792 kg (1.75 lb)</li> </ul>         |
|             | Mounting                   | <ul style="list-style-type: none"> <li>Ceiling /Wall Mounting (Kits included)</li> <li>Junction Box Mounting (Kits included)</li> <li>T-Bar Mounting (Kits included)</li> </ul> |

## Software Specifications

| Item                        | Description                       |                                                                                                                                                                                                                                                      |
|-----------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wireless Functions          | Maximum number of BSSIDs          | 16 (8 on each band)                                                                                                                                                                                                                                  |
|                             | Maximum number of associated STAs | 256                                                                                                                                                                                                                                                  |
|                             | 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                           | No                                                                                                                                                                                                                                                   |
|                             | WLAN Optimization                 | Yes                                                                                                                                                                                                                                                  |
|                             | WIDS/WIPS                         | No                                                                                                                                                                                                                                                   |
|                             | Lock to AP                        | Yes                                                                                                                                                                                                                                                  |
|                             | Rate Limit                        | <ul style="list-style-type: none"> <li>• SSID Rate Limit</li> <li>• Client Rate Limit</li> </ul>                                                                                                                                                     |
|                             | Load Balance                      | <ul style="list-style-type: none"> <li>• Maximum Associated Clients</li> <li>• RSSI Threshold</li> </ul>                                                                                                                                             |
|                             | Roaming                           | <ul style="list-style-type: none"> <li>• 802.11 k</li> <li>• 802.11v</li> <li>• 802.11r</li> <li>• Non-Stick Roaming</li> <li>• Ping-Pong Roaming Suppression</li> <li>• AI Roaming</li> </ul> <p>*Note: Only support Layer 2 Roaming currently.</p> |
|                             | Multicast/Broadcast Management    | <ul style="list-style-type: none"> <li>• Multicast-to-Unicast Conversion</li> <li>• ARP-to-Unicast Conversation</li> <li>• Multicast Filtering</li> <li>• Multicast/Broadcast Rate Limit</li> </ul>                                                  |
|                             | QoS (Quality of Service)          | <ul style="list-style-type: none"> <li>• WMM (Wi-Fi Multimedia)</li> <li>• DSCP (Differentiated Services Code Point)</li> <li>• U-APSD (Unscheduled Automatic Power Save Delivery)</li> </ul>                                                        |
| Security and Authentication | ACL                               |                                                                                                                                                                                                                                                      |
|                             | MAC Filter                        |                                                                                                                                                                                                                                                      |



| Item               | Description                                                                                                                                                              |                                                                                                                                                                                                                                                                                                             |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | 802.1X Authentication                                                                                                                                                    |                                                                                                                                                                                                                                                                                                             |
|                    | MAC-Based Authentication                                                                                                                                                 |                                                                                                                                                                                                                                                                                                             |
|                    | <ul style="list-style-type: none"> <li>• None</li> <li>• Enhanced Open</li> <li>• WPA/WPA2/WPA3-Personal</li> <li>• WPA/WPA2/WPA3-Enterprise</li> </ul>                  |                                                                                                                                                                                                                                                                                                             |
|                    | Radius Accounting                                                                                                                                                        |                                                                                                                                                                                                                                                                                                             |
|                    | <ul style="list-style-type: none"> <li>• PPSK without Radius</li> <li>• PPSK with Radius (Generic Radius with bound MAC/EKMS/Generic Radius with unbound MAC)</li> </ul> |                                                                                                                                                                                                                                                                                                             |
|                    | Captive Portal                                                                                                                                                           | <ul style="list-style-type: none"> <li>• No Authentication</li> <li>• Simple Password</li> <li>• Hotspot (Voucher / Local User / SMS / RADIUS / Form Auth)</li> <li>• RADIUS Server</li> <li>• External Portal Server</li> <li>• Pre-Authentication Access</li> <li>• Authentication-Free Client</li> </ul> |
| Management methods | EAP Types                                                                                                                                                                | <ul style="list-style-type: none"> <li>• EAP-TLS</li> <li>• EAP-TTLS</li> <li>• EAP-PEAP</li> <li>• EAP-CHAP</li> <li>• EAP-SIM</li> <li>• EAP-AKA</li> <li>• EAP-GTC</li> <li>• EAP-FAST</li> <li>• EAP-PEAP</li> <li>• EAP-MD5</li> <li>• EAP-MSCHAPv2</li> <li>• PEAPv0</li> <li>• PEAPv1</li> </ul>     |
|                    | Omada Controller                                                                                                                                                         | <ul style="list-style-type: none"> <li>• Omada Controller V5.15.24 and above</li> <li>• Omada Essential V5.15.24 and above</li> </ul>                                                                                                                                                                       |
|                    | App                                                                                                                                                                      | Omada App V4.24 and above                                                                                                                                                                                                                                                                                   |
|                    | Standalone Management                                                                                                                                                    | Yes                                                                                                                                                                                                                                                                                                         |
|                    | Standalone Mesh                                                                                                                                                          | Yes                                                                                                                                                                                                                                                                                                         |
|                    | SSH                                                                                                                                                                      | Yes                                                                                                                                                                                                                                                                                                         |
|                    | SNMP                                                                                                                                                                     | v1, v2c, v3                                                                                                                                                                                                                                                                                                 |
| Operating Modes    | AP                                                                                                                                                                       | Yes                                                                                                                                                                                                                                                                                                         |
|                    | Repeater                                                                                                                                                                 | No                                                                                                                                                                                                                                                                                                          |
|                    | Mesh                                                                                                                                                                     | Yes                                                                                                                                                                                                                                                                                                         |

| Item             | Description                          |                                                                                                                                             |
|------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| System Feature   | System Log                           | Yes                                                                                                                                         |
|                  | 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                                 | <ul style="list-style-type: none"> <li>• SSID VLAN</li> <li>• Dynamic VLAN</li> <li>• Management VLAN</li> </ul>                            |
|                  | Static IP / DHCP Client              | Yes                                                                                                                                         |
|                  | IPv4/IPv6                            | Yes                                                                                                                                         |
|                  | LLDP (Link Layer Discovery Protocol) | Yes                                                                                                                                         |
|                  | mDNS                                 | Yes                                                                                                                                         |
|                  | Tools                                | <ul style="list-style-type: none"> <li>• Ping / Traceroute / DNSLookup / ARP Table</li> <li>• Packet Capture</li> <li>• Terminal</li> </ul> |

# Standards Compliance and Certifications

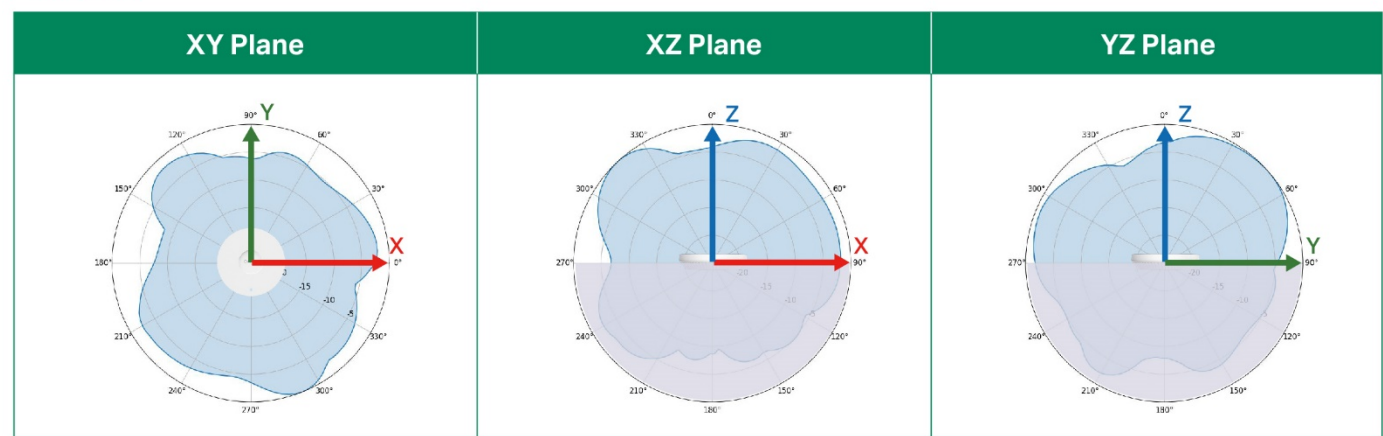
| Item                 | Category                                                                     | Description                                                                                                                                                                                                  |
|----------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards compliance | IEEE Standards                                                               | <ul style="list-style-type: none"> <li>• IEEE 802.11a/b/g/n/ac/ax</li> <li>• IEEE 802.11e/i/k/v/r</li> <li>• IEEE 802.1x/q</li> <li>• IEEE 802.3af</li> <li>• IEEE 802.3ab</li> <li>• IEEE 802.3x</li> </ul> |
|                      | Radio Standards                                                              | <ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• ETSI EN 301 893</li> <li>• EN50665 EN IEC 62311</li> <li>• FCC Part 15E</li> <li>• RSS-247, RSS-GEN</li> <li>• LP0002</li> </ul>         |
|                      | EMC standards                                                                | <ul style="list-style-type: none"> <li>• EN 55032</li> <li>• EN 55035</li> <li>• EN 301489-1</li> <li>• EN 301489-17</li> <li>• FCC Part 15C</li> <li>• ICES-003 issue7</li> <li>• CNS 15936</li> </ul>      |
|                      | Safety Standards                                                             | <ul style="list-style-type: none"> <li>• EN 62368-1</li> <li>• IEC 62368-1</li> <li>• CNS 15598-1</li> </ul>                                                                                                 |
|                      | Security Standards                                                           | <ul style="list-style-type: none"> <li>• WPA-Personal/Enterprise</li> <li>• WPA2-Personal/Enterprise</li> <li>• WPA3-Personal/Enterprise</li> <li>• OWE</li> </ul>                                           |
|                      | RoHS                                                                         | <ul style="list-style-type: none"> <li>• Directive 2011/65/EU, Directive (EU) 2015/863</li> <li>• EN IEC 63000: 2018</li> </ul>                                                                              |
|                      | Others                                                                       | <ul style="list-style-type: none"> <li>• Equipment Radio Regulations: 2008 (including amendments)</li> <li>• VCCI-CISPR 32</li> </ul>                                                                        |
| Certifications       | <ul style="list-style-type: none"> <li>• FCC/CE/NCC/VCCI/JRF/BSMI</li> </ul> |                                                                                                                                                                                                              |

# RF Performance

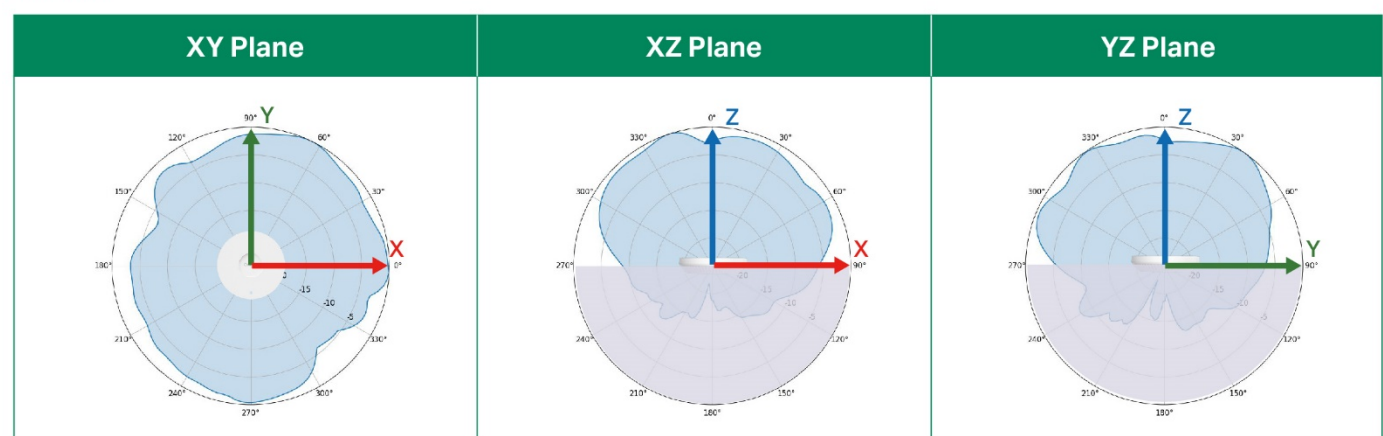
| Frequency Band | Wi-Fi Protocol & Bandwidth | MCS Index / Data Rate | EU/US Maximum Transmit Power (dBm) per transmit chain | Receiver Sensitivity (dBm) per receive chain |
|----------------|----------------------------|-----------------------|-------------------------------------------------------|----------------------------------------------|
| 2.4 GHz        | 802.11n, HT20              | MCS0                  | 14/20.5                                               | -96                                          |
|                |                            | MCS7                  | 14/17                                                 | -77                                          |
|                | 802.11n, HT40              | MCS0                  | 14/19                                                 | -93                                          |
|                |                            | MCS7                  | 14/17.5                                               | -74                                          |
|                | 802.11ax, HE20             | MCS0                  | 14/20.5                                               | -97                                          |
|                |                            | MCS11                 | 14/16                                                 | -67                                          |
|                | 802.11ax, HE40             | MCS0                  | 14/19                                                 | -94                                          |
|                |                            | MCS11                 | 14/16                                                 | -64                                          |
| 5 GHz          | 802.11n, HT20              | MCS0                  | 20.5/20.5                                             | -94                                          |
|                |                            | MCS7                  | 17.5/17.5                                             | -75                                          |
|                | 802.11n, HT40              | MCS0                  | 20.5/20.5                                             | -91                                          |
|                |                            | MCS7                  | 17.5/17.5                                             | -71.5                                        |
|                | 802.11ac, HT20             | MCS0                  | 20.5/20.5                                             | -94                                          |
|                |                            | MCS8                  | 16.5/16.5                                             | -75                                          |
|                | 802.11ac, HT40             | MCS0                  | 20.5/20.5                                             | -91                                          |
|                |                            | MCS9                  | 16.5/16.5                                             | -66                                          |
|                | 802.11ac, HT80             | MCS0                  | 20.5/20.5                                             | -87.5                                        |
|                |                            | MCS9                  | 16.5/16.5                                             | -62                                          |
|                | 802.11ax, HE20             | MCS0                  | 20.5/20.5                                             | -94.5                                        |
|                |                            | MCS11                 | 16/16                                                 | -64.5                                        |
|                | 802.11ax, HE40             | MCS0                  | 20.5/20.5                                             | -91.5                                        |
|                |                            | MCS11                 | 16/16                                                 | -61                                          |
|                | 802.11ax, HE80             | MCS0                  | 20.5/20.5                                             | -89                                          |
|                |                            | MCS11                 | 16/16                                                 | -59                                          |

# Antenna Radiation Patterns

## 2.4 GHz



## 5 GHz



# Package Contents

| Item               | Quantity |
|--------------------|----------|
| EAP610             | 1        |
| Installation Guide | 1        |
| Power Adapter      | 1        |
| Mounting Kit       | 1        |

## 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    | 2025-06-13 | Initial release. |

<sup>†</sup> 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.

<sup>‡</sup> Use of Wi-Fi 6 (802.11ax), and features including OFDMA, MU-MIMO, and 1024-QAM requires clients to also support the corresponding features.

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

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

<sup>△</sup> 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.