



# **Omada High-Density AX3600 Wi-Fi 6 Indoor/Outdoor Access Point**

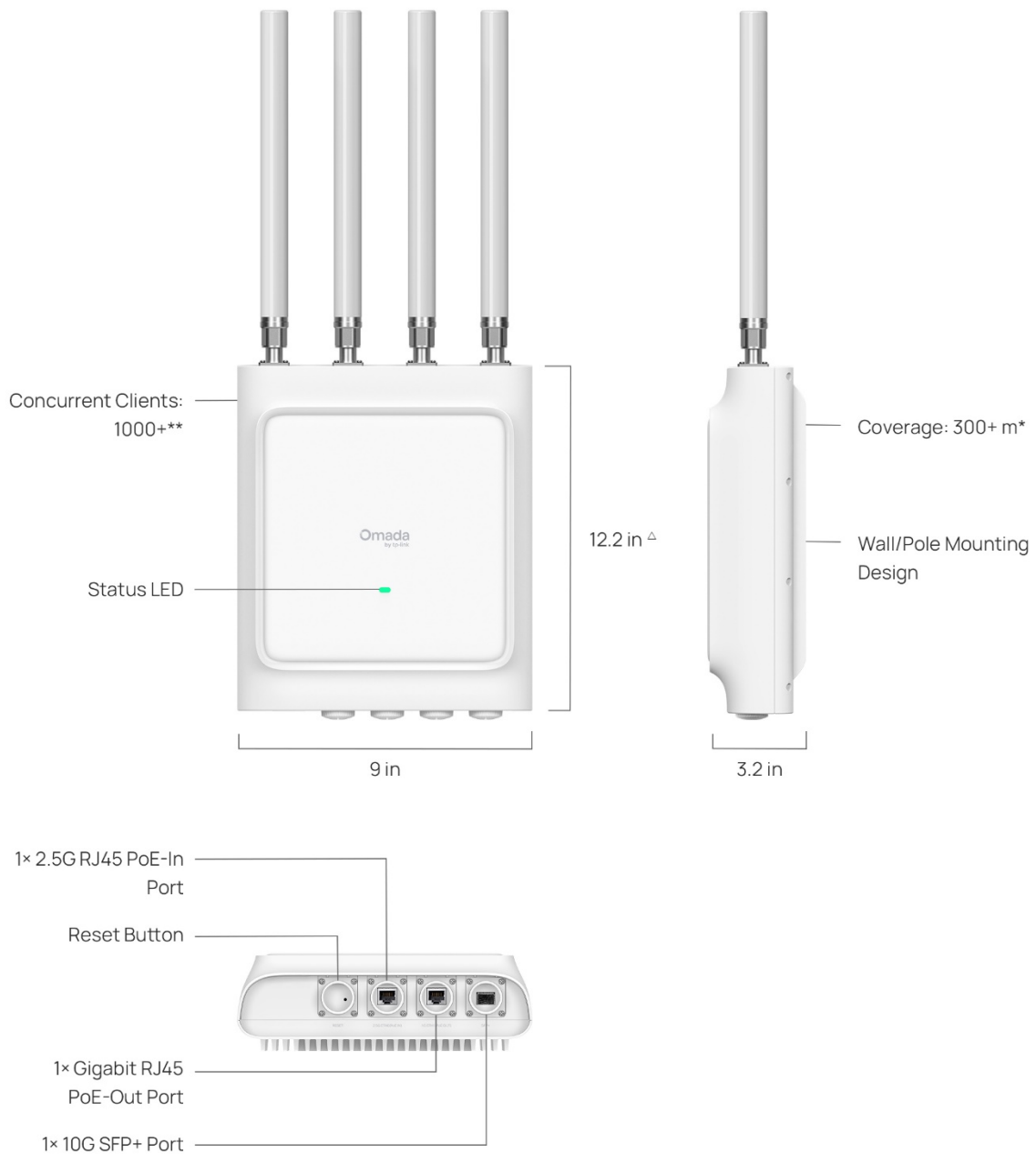
Model: EAP668-Outdoor HD

# Product Overview

EAP668-Outdoor HD is Omada's first 8-stream AX3600 Wi-Fi 6 indoor/outdoor access point, delivering reliable, high-density connectivity. Ideal for large, high-capacity outdoor venues such as stadiums, airports, parks, and events.

- **High-Density Connectivity:** Supports up to 1,024 devices.\*
- **Long-Range Omnidirectional Coverage:** Features 4× external 6dBi dual-band antennas with MU-MIMO technology, delivering extended coverage up to 4,305 ft<sup>2</sup> (400 m<sup>2</sup>).<sup>‡</sup>
- **Outdoor-Ready Durability:** Features an IP68-rated weatherproof enclosure and 6kV lightning protection.
- **Dual-Band 8-Stream Wi-Fi 6:** 1148 Mbps on 2.4 GHz and 2402 Mbps on 5 GHz.<sup>†</sup>
- **Multiple Ports for Flexible Network Solution:** 1× 10G SFP+ slot, 1× 2.5G PoE-In port, and 1× Gigabit PoE-Out port.
- **Quick and Easy Setup:** Features wall/pole mounting with Omada SDN for one-click setup.
- **Advanced Features:** Centralized cloud management, mesh, and seamless roaming.<sup>Δ</sup>

# Product Appearance



\*Actual coverage is not guaranteed and will vary as a result of the performance of the equipped antennas, 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.

△ Length does not include antenna, waterproof kit and mounting kit

# Feature Descriptions

## High Capacity, Wide Coverage

Four external N-type omnidirectional 6dBi high-gain antennas with high-power amplifiers maximize Wi-Fi 6 performance. EAP668-Outdoor HD supports up to 1,024 devices with coverage up to 4,305 ft<sup>2</sup> (400 m<sup>2</sup>), making it ideal for high-density, large-scale deployments. In stadiums, it handles heavy traffic, including live video sharing and social media posts. In airports, it serves tens of thousands of passengers while supporting baggage tracking, surveillance, and other critical operations.

## Industry-Leading IP68 Weatherproof Design for Extreme Conditions

EAP668-Outdoor HD offers complete dustproof protection and the ability to withstand prolonged submersion in water. It supports IP68 weatherproof and 6kV lightning protection. Additionally, an extended temperature tolerance of -40°C to 70°C makes it ideal for extremely hot and cold environments.

## Omada Wi-Fi 6 Technology<sup>s</sup>

Wi-Fi 6 (802.11ax) delivers 8×8 UL/DL MU-MIMO, OFDMA, 1024-QAM, and a 4× longer OFDM symbol that extends coverage while improving data transmission speeds by 11% compared to Wi-Fi 5, making it the ideal solution for high-performance, high-density wireless networks.



## Flexible Deployment with SFP+ and PoE Port

EAP668-Outdoor HD features a flexible port setup, including a 2.5G PoE-In port for simplified power and data delivery, a Gigabit PoE-Out port for powering devices, such as IP cameras, and a 10G SFP+ port for long-distance uplinks and PoE backup. This versatile design enables cost-efficient deployment in diverse scenarios.

## Quick and Easy Setup

Flexible installation options, including wall and pole mounts, enable quick deployment in diverse settings. Integration with Omada SDN enables one-click adoption and automatic device discovery, streamlining setup.

## Cloud-Based Centralized Management

As part of Omada's unified SDN ecosystem, EAP668-Outdoor HD 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.

## Seamless Connectivity with Mesh and Roaming

Ensures customers enjoy uninterrupted streaming when moving around by switching clients automatically to the access points with the optimal signal.

# 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: 4×4 Uplink/Downlink MU-MIMO with 4 spatial streams</li> <li>5 GHz: 4×4 Uplink/Downlink MU-MIMO with 4 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>5.925 to 6.425 GHz U-NII-5<br>*Note: Country-Specific Restriction Apply                                                                                                                                                                  |
|                 | Bandwidth                                                   | 2.4 GHz: 20 MHz/40 MHz<br>5 GHz: 20 MHz/40 MHz/80 MHz<br>*Note: Country-Specific Restriction Apply                                                                                                                                                                                                                                                                                                |
|                 | Wireless Data Rate                                          | <ul style="list-style-type: none"> <li>2.4 GHz: 8.6 Mbps to 1147.1 Mbps (MCS0-MCS11, NSS=1 to 4, HE20/40)</li> <li>5 GHz: 8.6 Mbps to 2402 Mbps (MCS0-MCS11, NSS=1 to 4, HE20/40/80)</li> </ul> *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                                           | <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>TWT (Target Wake Time)</li> <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: 4×4 Downlink MU-MIMO with 4 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>*Note: Country-Specific Restriction Apply                                                                                                                                                                                                                           |
|                 | Bandwidth                                                   | 5 GHz: 20 MHz/40 MHz/80 MHz                                                                                                                                                                                                                                                                                                                                                                       |

| Item    | Description        |                                                                                                                                                                                                                                                                                                                            |
|---------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | Wireless Data Rate | <ul style="list-style-type: none"> <li>5 GHz: 6.5 Mbps to 2166.7 Mbps (MCS0-MCS9, NSS=1 to 4, VHT20/40/80)</li> </ul>                                                                                                                                                                                                      |
|         | Radio Technology   | OFDM (Orthogonal Frequency-Division Multiplexing)                                                                                                                                                                                                                                                                          |
|         | 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>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: 4×4 MIMO with 4 spatial streams</li> <li>5 GHz: 4×4 MIMO with 4 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><i>*Note: Country-Specific Restriction Apply</i>                                                                                                                  |
|         | Bandwidth          | 20 MHz/40 MHz                                                                                                                                                                                                                                                                                                              |
|         | Wireless Data Rate | <ul style="list-style-type: none"> <li>2.4 GHz: 6.5 Mbps to 600 Mbps (MCS0-MCS7, NSS=1 to 4, HT20/40)</li> <li>5 GHz: 6.5 Mbps to 600 Mbps (MCS0-MCS7, NSS=1 to 4, 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>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> |
| Antenna | Wi-Fi              | <ul style="list-style-type: none"> <li>2.4 GHz: 4 × 6 dBi (peak gain), External Dual-Band Omni Antennas</li> <li>5 GHz: 4 × 6 dBi (peak gain), External Dual-Band Omni Antennas</li> </ul> <i>*Note: The gains above are the single-antenna peak gains.</i>                                                                |
|         | IoT                | <ul style="list-style-type: none"> <li>Bluetooth: 1 ×5 dBi (peak gain), internal omnidirectional antennas</li> </ul>                                                                                                                                                                                                       |
|         | GNSS               |                                                                                                                                                                                                                                                                                                                            |

| Item                       | Description                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Interfaces                 | <ul style="list-style-type: none"> <li>1 x 10M/100M/1000M/2.5Gbps Multigigabit Ethernet Port (RJ45); PoE in</li> <li>1 x 10M/100M/1000M Gigabit Ethernet Port (RJ45) ; PoE out</li> <li>1 x 10G SFP+</li> <li>1 x Grounding Terminal</li> </ul>                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| IoT                        | BLE 5.2, 1Mbps                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| GNSS                       |                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Memory                     | <ul style="list-style-type: none"> <li>Flash: 1024Mbit</li> <li>DRAM: 8192Mbit × 2</li> </ul>                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Button                     | 1 × Reset button: Press the button for longer than 5 seconds to make the device restore to factory settings.                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Indicator                  | 1 × multi-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>Power supply detection status</li> <li>Error status</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Reliability                | MTBF (Mean Time between Failure)                                                                                                                                                                                                                                    | 621597 hours at the operating temperature of 25°C (77°F)                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Power Supply               | Input                                                                                                                                                                                                                                                               | 802.3at (PoE+)/802.3bt (PoE++): 41.1 – 57 V=1.73A                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                            | Output                                                                                                                                                                                                                                                              | 39 - 55 V=0.6A ; Pins: 1/2(+),3/6(-)<br>(The PoE-out feature requires 802.3bt PoE++ input)                                                                                                                                                                                                                                                                                                                                                                                      |
| Power Consumption          | <ul style="list-style-type: none"> <li>802.3at (PoE+)/802.3bt (PoE++): 25.4W(US)/20.2W(EU), 2.4GHz radio 4×4, 5GHz radio 4×4, wired link rate can be up to 2.5 Gbps, etc. ( PoE out power not included)</li> <li>Idle mode: 10W(PoE)</li> </ul>                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Surge/Lightning Protection | Ethernet Ports: ±6 kV                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ESD/EMP Protection         | <ul style="list-style-type: none"> <li>Air discharge: ±8 kV</li> <li>Contact discharge: ±4 kV</li> </ul> <p><b>*Note: ESD/EMP Protection means Electrostatic Discharge/Electromagnetic Pulse Protection independently.</b></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, 30 dBm in U-NII-2C,</li> </ul> FCC (Conducted Power) <ul style="list-style-type: none"> <li>2.4 GHz: 29 dBm</li> <li>5 GHz: 28 dBm in U-NII-1, 23 dBm in U-NII-2A, 23 dBm in U-NII-2C, 28 dBm in U-NII-3</li> </ul> <p><b>*Note: MIMO combined power, excluding antenna gains. The actual transmit power depends on local laws and regulations.</b></p> |

| Item        | Description                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | 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, 7 dBm in U-NII-3</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, 4 dBm in U-NII-2A, 4 dBm in U-NII-2C, 4dBm 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> |
|             | Adjustable power increment | 1 dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Environment | Temperature                | <ul style="list-style-type: none"> <li>• Operating: -40°C to +70°C (-40°F to +158°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 + 2500m(8202 feet)</li> <li>• Operating: up to + 2500m(8202 feet)</li> </ul>                                                                                                                                                                                                                                                                                                                                                           |
|             | Windproof                  | /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|             | Weatherproof Enclosure     | IP68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Unit        | Dimensions (W×D×H)         | <ul style="list-style-type: none"> <li>• Main Unit: 312 × 240 × 80mm (12.28 × 9.45 × 3.15 in.)</li> <li>• Shipping Unit: 408 × 122 × 348 mm (16.06 × 4.80× 13.69 in.)</li> </ul>                                                                                                                                                                                                                                                                                                               |
|             | Weight                     | <ul style="list-style-type: none"> <li>• Main Unit: 2.7 kg (5.95 lbs)</li> <li>• Mounting Bracket: 0.62 kg (1.37 lbs)</li> <li>• Shipping Unit: 5.65 kg (12.46 lbs)</li> </ul>                                                                                                                                                                                                                                                                                                                 |
|             | Mounting                   | <ul style="list-style-type: none"> <li>• Pole Mount (Kits included)</li> <li>• Wall Mount (Kits included)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                           |

## Software Specifications

| Item               | Description                       |                                                                                                                                                                                                                                                            |
|--------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wireless Functions | Maximum number of BSSIDs          | 16 (8 on each band)                                                                                                                                                                                                                                        |
|                    | Maximum number of associated STAs | 1000+                                                                                                                                                                                                                                                      |
|                    | 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                         | Yes                                                                                                                                                                                                                                                        |
|                    | 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>                                                                                                                                                   |
|                    | MLO                               | No                                                                                                                                                                                                                                                         |
|                    | Roaming                           | <ul style="list-style-type: none"> <li>• 802.11k</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><i>*Note: Only support Layer 2 Roaming currently.</i></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>                                                        |

| Item                        | Description                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | 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                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                             |
|                             | 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 LDAP Server</li> <li>• External Portal Server</li> <li>• Pre-Authentication Access</li> <li>• Authentication-Free Client</li> </ul> |
|                             | 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>                                     |
| Management methods          | 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 V4.20 and above                                                                                                                                                                                                                                                                                                                   |
|                             | Standalone Management                                                                                                                                                    | Yes                                                                                                                                                                                                                                                                                                                                         |

| Item             | Description                          |                                                                                                                                             |
|------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
|                  | Standalone Mesh                      | Yes                                                                                                                                         |
|                  | SSH                                  | Yes                                                                                                                                         |
|                  | SNMP                                 | v1, v2c, v3                                                                                                                                 |
| Operating Modes  | AP                                   | Yes                                                                                                                                         |
|                  | Repeater                             | Yes                                                                                                                                         |
|                  | Mesh                                 | Yes                                                                                                                                         |
| 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

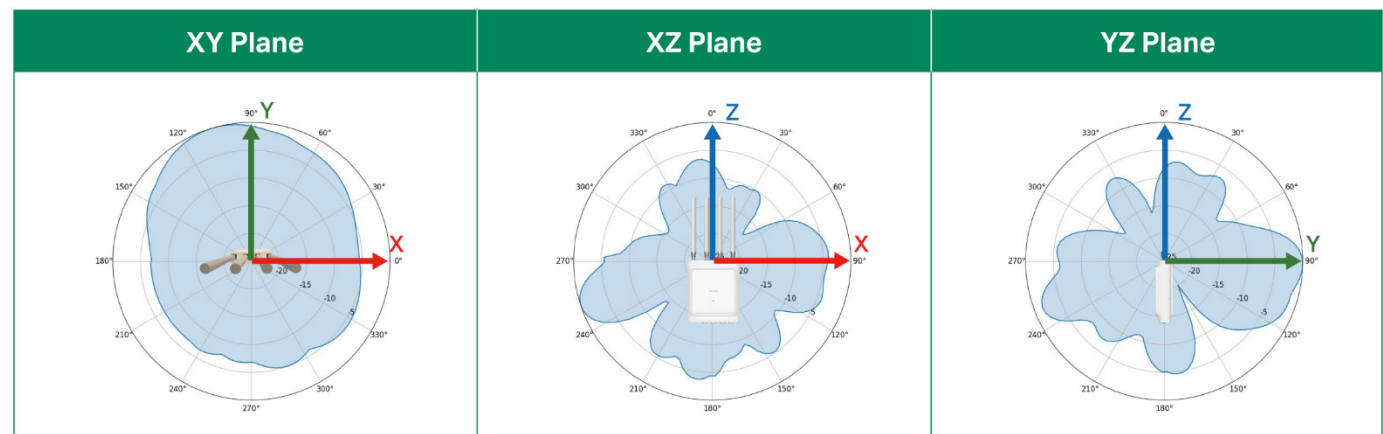
| Item                 | Category           | Description                                                                                                                                                                                                                          |
|----------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 802.3at</li> <li>• IEEE 802.3ab</li> <li>• IEEE 802.3bz</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>• FCC Part 15C</li> <li>• RSS-247, RSS-GEN</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>• EN 60601</li> <li>• FCC Part 15B</li> <li>• ICES-003 issue7</li> </ul>                               |
|                      | Safety Standards   | <ul style="list-style-type: none"> <li>• EN 62368-1</li> <li>• IEC 62368-1</li> </ul>                                                                                                                                                |
|                      | Security Standards | <ul style="list-style-type: none"> <li>• WPA2-Personal/Enterprise</li> <li>• WPA3-Personal/Enterprise</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>• Wi-Fi Alliance: Wi-Fi 7 (R1), Wi-Fi 6 (R2), Wi-Fi 6E, WPA3-R3, WPA3-Suite B, Enhanced Open Security</li> <li>• FCC/CE/IC/VCCI/JRF</li> </ul>                                                |

# RF Performance

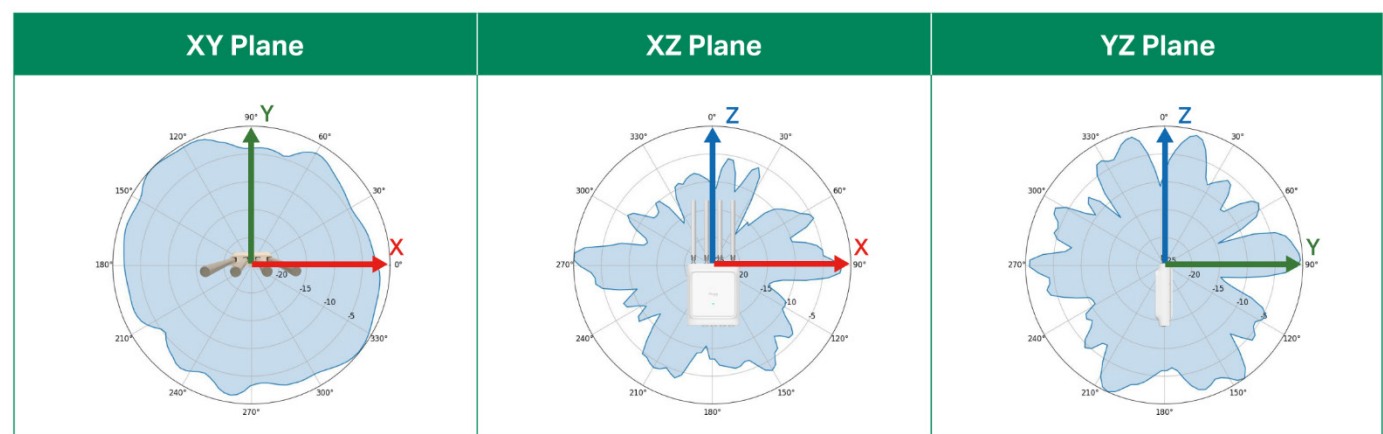
| Frequency Band | Wi-Fi Protocol & Bandwidth | MCS Index / Data Rate | EU/US Maximum Transmit Power (dBm) per transmit chain | Receiver Sensitivity (dBm) per receive chain |
|----------------|----------------------------|-----------------------|-------------------------------------------------------|----------------------------------------------|
| 2.4 GHz        | 802.11n, HT20              | MCS0                  | 12/23                                                 | -95                                          |
|                |                            | MCS7                  | 12/20                                                 | -76.5                                        |
|                | 802.11n, HT40              | MCS0                  | 12/22                                                 | -93                                          |
|                |                            | MCS7                  | 12/20                                                 | -74                                          |
|                | 802.11ax, HE20             | MCS0                  | 12/23                                                 | -95                                          |
|                |                            | MCS11                 | 12/19                                                 | -66                                          |
|                | 802.11ax, HE40             | MCS0                  | 12/22                                                 | -92.5                                        |
|                |                            | MCS11                 | 12/19                                                 | -64                                          |
| 5 GHz          | 802.11n, HT20              | MCS0                  | 21/22                                                 | -95                                          |
|                |                            | MCS7                  | 20/20                                                 | -75.5                                        |
|                | 802.11n, HT40              | MCS0                  | 21/22                                                 | -91.5                                        |
|                |                            | MCS7                  | 20/20                                                 | -72                                          |
|                | 802.11ac, HT20             | MCS0                  | 21/22                                                 | -95                                          |
|                |                            | MCS7                  | 21/21                                                 | -76                                          |
|                | 802.11ac, HT40             | MCS0                  | 21/22                                                 | -92.5                                        |
|                |                            | MCS9                  | 20/20                                                 | -67                                          |
|                | 802.11ac, HT80             | MCS0                  | 21/22                                                 | -89.5                                        |
|                |                            | MCS9                  | 20/20                                                 | -64                                          |
|                | 802.11ax, HE20             | MCS0                  | 21/22                                                 | -95                                          |
|                |                            | MCS11                 | 18/18                                                 | -65                                          |
|                | 802.11ax, HE40             | MCS0                  | 21/22                                                 | -92                                          |
|                |                            | MCS11                 | 18/18                                                 | -63                                          |
|                | 802.11ax, HE80             | MCS0                  | 21/22                                                 | -89                                          |
|                |                            | MCS11                 | 18/18                                                 | -60                                          |

# Antenna Radiation Patterns

## 2.4 GHz

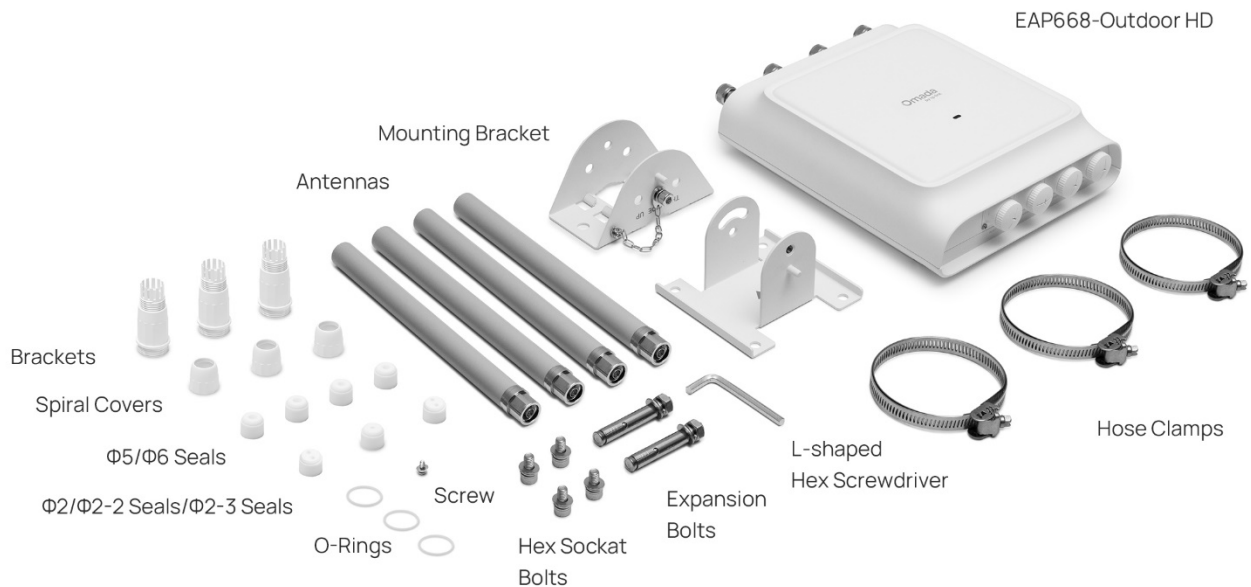


## 5 GHz



# Package Contents

| Item               | Quantity |
|--------------------|----------|
| EAP668-Outdoor HD  | 1        |
| External Antennas  | 4        |
| Waterproof Kit     | 1        |
| Mounting Kit       | 1        |
| Installation Guide | 1        |



## Support Services

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

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

# Revision History

| Version | Date       | Description      |
|---------|------------|------------------|
| V1.0    | 2026-06-25 | Initial release. |

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

‡The advertised coverage is calculated based on laboratory testing. Actual coverage is not guaranteed and will vary as a result of the performance of the equipped antennas, client limitations, and environmental factors.

†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 network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location.

△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.

§Use of Wi-Fi 6 (802.11ax) and its features, including OFDMA, 1024-QAM, and more, requires clients to support the corresponding features.

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.