

Omada AX3600
Ceiling Mount
Wi-Fi 6 Access Point

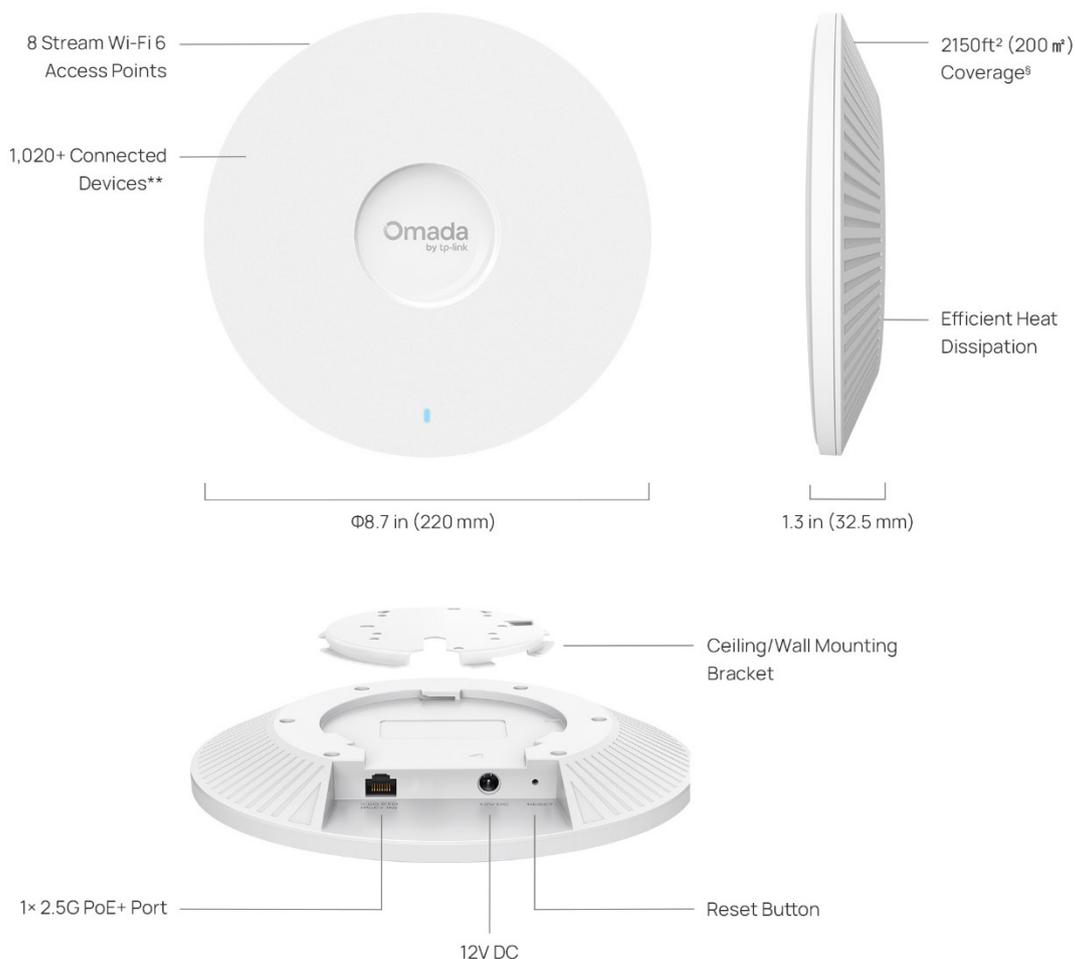
Model: EAP660 HD

Product Overview

The Omada AX3600 Dual-Band Ceiling Mount Access Point EAP660 HD delivers reliable connectivity and enhanced capacity for busy environments. It leverages core Wi-Fi 6 technologies to efficiently manage more simultaneous connections, ensuring a stable and consistent user experience.

- **8-Stream Dual-Band Wi-Fi 6:** 2,402 Mbps on 5 GHz and 1,148 Mbps on 2.4 GHz.[†]
- **High-Density Connectivity:** Up to 1,000+ Concurrent connections in crowded network environments.**
- **1× 2.5G Port:** Ensures fast connectivity throughout the network.
- **Low Latency and Interference:** MU-MIMO, OFDMA, and 1024-QAM ensure high performance for your network.[‡]
- **Flexible Deployment and Easy Setup:** Supports both 802.3at PoE and DC Power supply for flexible installation. Omada SDN for one-click setup.
- **Advanced Features:** Supports centralized cloud management, mesh, and seamless roaming.[^]
- **Wider Coverage:** Covers up to 1500 ft² (140 m²) 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 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.



Reliable Performance for High-Density Scenes

OFDMA and Uplink/Downlink MU-MIMO provide simultaneous connections for dozens of clients, optimizing network efficiency in high-density deployments. Leverage multi-user capabilities and upgrade your business like never before.

2.5G PoE Ports for Optimized Wired Performance

Boost overall network efficiency with a high-performance 2.5G PoE port, delivering blazing-fast data speeds. Compatibility with 802.3at PoE is ideal for flexible deployment.

Easy Setup via the Omada app, web browser, or SDN

The Omada SDN supports quick setup of EAP660 HD through automatic device identification and one-click adoption. Configure and manage on the go via the Omada app or web browser.

Boosted Network Security

EAP660 HD 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, the EAP660 HD works harmoniously 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 2.4 GHz: IEEE 802.11b/g/n/ax | |
| 802.11ax | Spatial Streams | <ul style="list-style-type: none"> 2.4 GHz: 4×4 Uplink/Downlink MU-MIMO with 4 spatial streams 5 GHz: 4×4 Uplink/Downlink MU-MIMO with 4 spatial streams |
| | Frequency Bands | 2.400 to 2.4835 GHz ISM 5.150 to 5.250 GHz U-NII-1 5.250 to 5.350 GHz U-NII-2A 5.470 to 5.725 GHz U-NII-2C 5.725 to 5.850 GHz U-NII-3/ISM *Note: Country-Specific Restriction Apply |
| | Bandwidth | 2.4 GHz: 20 MHz/40 MHz 5 GHz: 20 MHz/40 MHz/80 MHz *Note: Country-Specific Restriction Apply |
| | Wireless Data Rate | <ul style="list-style-type: none"> 2.4 GHz: 8.6 Mbps to 1148 Mbps (MCS0-MCS11, NSS=1 to 4, HE20/40) 5 GHz: 8.6 Mbps to 2402 Mbps (MCS0-MCS11, NSS=1 to 4, HE20/40/80) *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"> A-MPDU (Aggregate MAC Protocol Data Unit) for Tx/Rx A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx |
| | Others | <ul style="list-style-type: none"> MRC (Maximal Ratio Combining) TxBF (Transmit Beamforming) WPA3 (Wi-Fi Protect Access 3) DFS (Dynamic Frequency Selection) CDD (Cycle Delay Diversity) CSD (Cycle Shift Diversity) STBC (Space-Time Block Coding) LDPC (Low-Density Parity-Check) |
| 802.11ac | Spatial Streams | <ul style="list-style-type: none"> 5 GHz: 4×4 Downlink MU-MIMO with 4 spatial streams |
| | Frequency Bands | 5.150 to 5.250 GHz U-NII-1 5.250 to 5.350 GHz U-NII-2A 5.470 to 5.725 GHz U-NII-2C 5.725 to 5.850 GHz U-NII-3/ISM *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"> 5 GHz: 6.5Mbps to 1733.3Mbps (MCS0-MCS11, NSS=1 to 4, VHT20/40/80) |
| | 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"> A-MPDU (Aggregate MAC Protocol Data Unit) for Tx/Rx A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx |
| | Others | <ul style="list-style-type: none"> MRC (Maximal Ratio Combining) TxBF (Transmit Beamforming) WPA3 (Wi-Fi Protect Access 3) DFS (Dynamic Frequency Selection) CDD (Cycle Delay Diversity) CSD (Cycle Shift Diversity) STBC (Space-Time Block Coding) LDPC (Low-Density Parity-Check) |
| 802.11n | Spatial Streams | <ul style="list-style-type: none"> 2.4 GHz: 4×4 MIMO with 4 spatial streams 5 GHz: 4×4 MIMO with 4 spatial streams |
| | Frequency Bands | 2.400 to 2.4835 GHz ISM 5.150 to 5.250 GHz U-NII-1 5.250 to 5.350 GHz U-NII-2A 5.470 to 5.725 GHz U-NII-2C 5.725 to 5.850 GHz U-NII-3/ISM *Note: Country-Specific Restriction Apply |
| | Bandwidth | 20 MHz/40 MHz |
| | Wireless Data Rate | <ul style="list-style-type: none"> 2.4 GHz: 6.5Mbps to 600 Mbps (MCS0-MCS7, NSS=1 to 4, HT20/40) 5 GHz: 6.5Mbps to 600 Mbps (MCS0-MCS7, NSS=1 to 4, HT20/40) |
| | Radio Technology | OFDM (Orthogonal Frequency-Division Multiplexing) |
| | Modulation Type | 64-QAM, 16-QAM, QPSK, BPSK |
| | Frame Aggregation | <ul style="list-style-type: none"> A-MPDU (Aggregate MAC Protocol Data Unit) for Tx/Rx A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx |
| | Others | <ul style="list-style-type: none"> MRC (Maximal Ratio Combining) TxBF (Transmit Beamforming) WPA3 (Wi-Fi Protect Access 3) DFS (Dynamic Frequency Selection) CDD (Cycle Delay Diversity) CSD (Cycle Shift Diversity) STBC (Space-Time Block Coding) LDPC (Low-Density Parity-Check) |

| Item | Description | |
|----------------------------|--|--|
| Antenna | Wi-Fi | <ul style="list-style-type: none"> • 2.4 GHz: 4 × 6 dBi (peak gain), internal omnidirectional antennas • 5 GHz: 4 × 6.5 dBi (peak gain), internal omnidirectional antennas • The down tilt angle for maximum gain: 2.4G: 30° to 45°, 5G: 15° to 30° <p><i>*Note: The gains above are the single-antenna peak gains.</i></p> |
| Interfaces | <ul style="list-style-type: none"> • 1 x 10M/100M/1000M/2500M Multigigabit Ethernet Port (RJ45); PoE in • 1 x DC power interface: 12VDC | |
| IoT | <ul style="list-style-type: none"> • BLE5.2,1Mbps | |
| Memory | <ul style="list-style-type: none"> • Flash: NAND 128MB *1 • DRAM: DDR3 4Gbit *2 | |
| Button | 1 × Reset button: Press the button for longer than 5 seconds to make the device restore to factory settings. | |
| Indicator | 1 × blue system LED indicates on the front: <ul style="list-style-type: none"> • Power-on status • Firmware initialization or upgrade status • Uplink service status • Error status | |
| Reliability | MTBF (Mean Time between Failure) | EU: 346690 hours at the operating temperature of 25°C (77°F) ; US: 314609 hours at the operating temperature of 25°C (77°F) |
| Power Supply | Input | 802.3at PoE+: 42.5 - 57 V, 0.6A; 12 V/2 A DC |
| | Output | / |
| Power Consumption | <ul style="list-style-type: none"> • 802.3at (PoE): 22.5W (for US)/21.5W (for EU), 2.4GHz radio 4×4, 5GHz radio 4×4. wired link rate can be up to 2.5Gps • Idle mode: 11.1W(PoE), 9.2W(DC) for US; 10W(PoE), 8.4W(DC) for EU | |
| Surge/Lightning Protection | Ethernet Ports: ±2 kV | |
| ESD/EMP Protection | <ul style="list-style-type: none"> • Air discharge: ±8 kV • Contact discharge: ±4 kV <p><i>*Note: ESD/EMP Protection means Electrostatic Discharge/Electromagnetic Pulse Protection independently.</i></p> | |
| Tx Power | Maximum transmit power | CE (EIRP) <ul style="list-style-type: none"> • 2.4 GHz: 20 dBm • 5 GHz: 23 dBm in U-NII-1, 23 dBm in U-NII-2A, 30 dBm in U-NII-2C FCC (Conducted Power) <ul style="list-style-type: none"> • 2.4 GHz: 22 dBm • 5 GHz: 22 dBm in U-NII-1, 22 dBm in U-NII-3 <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 dB |
| Environment | Temperature | <ul style="list-style-type: none"> • Operating: 0°C to +40°C (32°F to +104°F) • Storage: -40°C to +70°C (-40°F to +158°F) |

| Item | Description | |
|------|--------------------|--|
| | Humidity | <ul style="list-style-type: none"> • Operating: 10% to 90% (non-condensing) • Storage: 5% to 90% (non-condensing) |
| | Altitude | <ul style="list-style-type: none"> • Storage: up to + 2000 m (6561feet) • Operating: up to + 2000 m (6561feet) |
| Unit | Dimensions (W×D×H) | <ul style="list-style-type: none"> • Main Unit: 220 × 220 × 32.5 mm (8.7 × 8.7 × 1.3 in.) • Shipping Unit: 280 × 259 × 91 mm (11.0 × 10.2 × 3.6 in.) |
| | Weight | <ul style="list-style-type: none"> • Main Unit: 0.75 kg (1.65 lbs) • Mounting Bracket: 0.05 kg (0.11 lbs) • Shipping Unit: 1.2 kg (2.6 lbs) |
| | Mounting | <ul style="list-style-type: none"> • Ceiling /Wall/Junction Box/T-Bar Mounting (Kits included) |

Software Specifications

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

| Item | Description | |
|-----------------------------|--|---|
| | Others | <ul style="list-style-type: none"> • EoGRE Tunnel |
| Security and Authentication | ACL | |
| | MAC Filter | |
| | 802.1X Authentication | |
| | MAC-Based Authentication | |
| | <ul style="list-style-type: none"> • None • Enhanced Open • WPA/WPA2/WPA3-Personal • WPA/WPA2/WPA3-Enterprise | |
| | Radius Accounting | |
| | <ul style="list-style-type: none"> • PPSK without Radius • PPSK with Radius (Generic Radius with bound MAC/EKMS/Generic Radius with unbound MAC) | |
| | Captive Portal | <ul style="list-style-type: none"> • No Authentication • Simple Password • Hotspot (Voucher / Local User / SMS / RADIUS / Form Auth) • RADIUS Server • External LDAP Server • External Portal Server • Pre-Authentication Access • Authentication-Free Client |
| | EAP Types | <ul style="list-style-type: none"> • EAP-TLS • EAP-TTLS • EAP-PEAP • EAP-CHAP • EAP-SIM • EAP-AKA • EAP-GTC • EAP-FAST • EAP-PEAP • EAP-MD5 • EAP-MSCHAPv2 • PEAPv0 • PEAPv1 |
| Management methods | <ul style="list-style-type: none"> • Omada Local Controller V6.0 and above • Omada CBC V6.0 and above | |
| | App | Omada App V5.0 and above |
| | Standalone Management | Yes |
| | Standalone Mesh | Yes |
| | SSH | Yes |

| Item | Description | |
|------------------|--------------------------------------|---|
| | SNMP | v1, v2c, v3 |
| Operating Modes | AP | 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"> • SSID VLAN • Dynamic VLAN • Management VLAN |
| | Static IP / DHCP Client | Yes |
| | IPv4/IPv6 | Yes |
| | LLDP (Link Layer Discovery Protocol) | Yes |
| | mDNS | Yes |
| | Tools | <ul style="list-style-type: none"> • Ping / Traceroute / DNSLookup • Packet Capture • Terminal |

Standards Compliance and Certifications

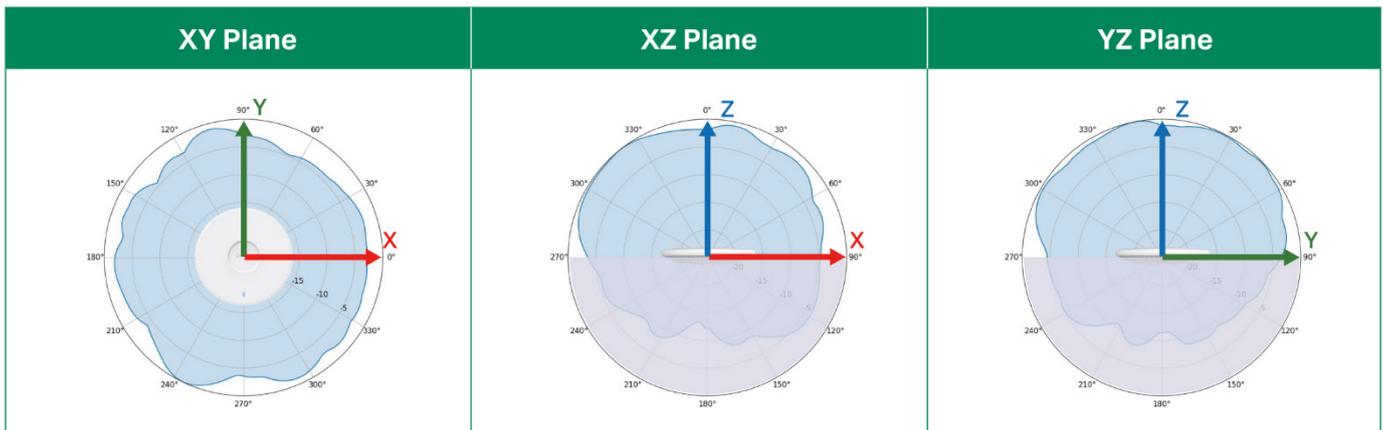
| Item | Category | Description |
|----------------------|------------------|--|
| Standards compliance | IEEE Standards | <ul style="list-style-type: none"> • IEEE 802.11a/b/g/n/ac/ax • IEEE 802.11e/i/k/v/r • IEEE 802.1x/q • IEEE 802.3at • IEEE 802.3ab • IEEE 802.3x |
| | Radio Standards | <ul style="list-style-type: none"> • ETSI EN 300 328 • ETSI EN 301 893 • ETSI EN302 502 • FCC Part 15E • FCC Part15C • RSS-247, RSS-GEN |
| | EMC standards | <ul style="list-style-type: none"> • EN 55032 • EN 55035 • EN 301489-1 • EN 301489-17 • EN 61000-3-3 • EN IEC 61000-3-2 • EN 60601-1-2 • FCC Part 15B • ICES-003 • VCCI-CISPR 32 |
| | Safety Standards | <ul style="list-style-type: none"> • EN 62368-1 • IEC 62368-1 |
| | RoHS | <ul style="list-style-type: none"> • Directive 2011/65/EU, Directive (EU) 2015/863 • EN IEC 63000: 2018 |
| | Others | <ul style="list-style-type: none"> • Equipment Radio Regulations: 2008 (including amendments) |
| | Certifications | <ul style="list-style-type: none"> • FCC/IC, CE/NTRA, JRF,VCCI |

RF Performance

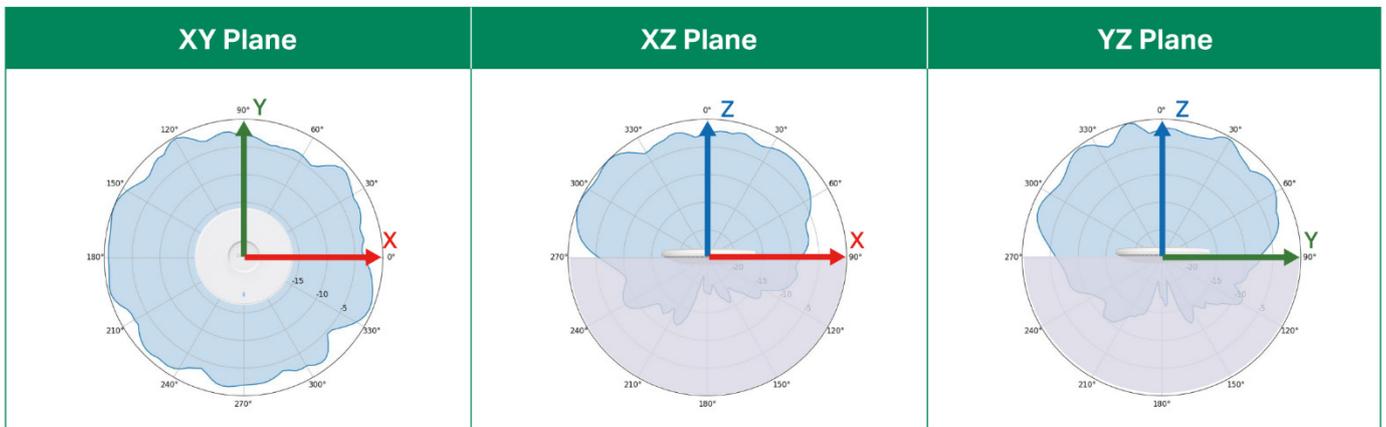
| Frequency Band | Wi-Fi Protocol & Bandwidth | MCS Index / Data Rate | EU/US Maximum Transmit Power (dBm) per transmit chain | Receiver Sensitivity (dBm) per receive chain |
|----------------|----------------------------|-----------------------|---|--|
| 2.4 GHz | 802.11n, HT20 | MCS0 | 12/19.5 | -95 |
| | | MCS7 | 12/18 | -77 |
| | 802.11n, HT40 | MCS0 | 12/18 | -93 |
| | | MCS7 | 12/18 | -74 |
| | 802.11ax, HE20 | MCS0 | 12/19 | -95 |
| | | MCS11 | 12/16 | -66 |
| | 802.11ax, HE40 | MCS0 | 12/18 | -93 |
| | | MCS11 | 12/16 | -63 |
| 5 GHz | 802.11n, HT20 | MCS0 | 15/20 | -94 |
| | | MCS7 | 15/18 | -75 |
| | 802.11n, HT40 | MCS0 | 15/20 | -90.5 |
| | | MCS7 | 15/18 | -72 |
| | 802.11ac, VHT20 | MCS0 | 15/20 | -94 |
| | | MCS8 | 15/17.5 | -75 |
| | 802.11ac, VHT40 | MCS0 | 15/20 | -90.5 |
| | | MCS9 | 15/17 | -72 |
| | 802.11ac, HT80 | MCS0 | 15/20 | -88.5 |
| | | MCS9 | 15/17 | -63 |
| | 802.11ax, HE20 | MCS0 | 15/20 | -94 |
| | | MCS11 | 15/16 | -64.5 |
| | 802.11ax, HE40 | MCS0 | 15/20 | -90.5 |
| | | MCS11 | 15/16 | -63 |
| | 802.11ax, HE80 | MCS0 | 15/20 | -88.5 |
| | | MCS11 | 15/16 | -60.5 |

Antenna Radiation Patterns

2.4 GHz



5 GHz



Package Contents

| Item | Quantity |
|-------------------------|----------|
| EAP660 HD | 1 |
| Installation Guide | 1 |
| Power Adapter | 1 |
| Mounting Kit | 1 |
| Cable Compartment Cover | 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 | 2026-02-11 | Initial release. |

†Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput, wireless coverage, and connected devices are not guaranteed and will vary as a result of internet service provider factors, network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location.

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

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

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

△Omada Mesh, Seamless Roaming, Captive Portal, and Cloud Access require the use of an Omada controller.

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

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