Omada by tp-link

Datasheet




# Omada AC1200 Wireless MU-MIMO Gigabit Indoor/Outdoor Access Point

Model: EAP225-Outdoor

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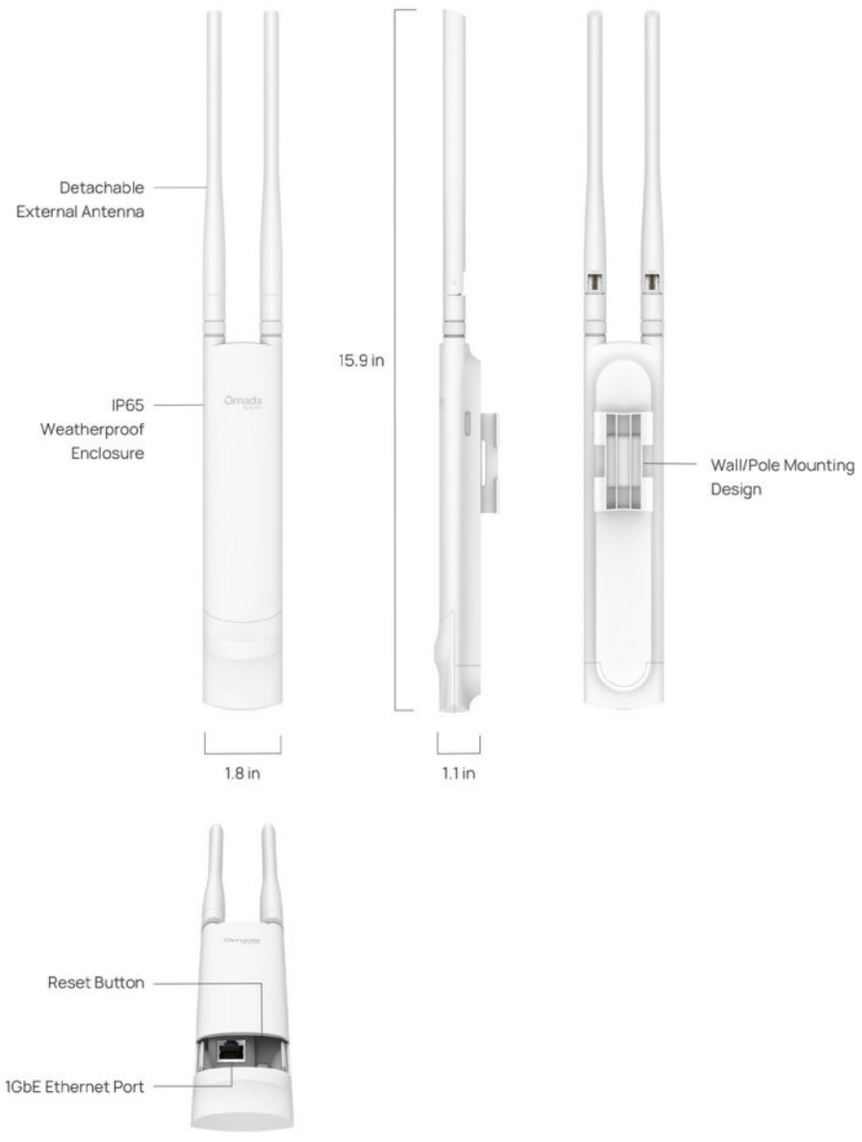
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# Product Overview

EAP225-Outdoor is an Omada Omnidirectional AC1200 Wireless MU-MIMO Gigabit Indoor/Outdoor Access Point that delivers reliable, stable outdoor network connectivity. Perfect for outdoor scenarios, such as yards, swimming pools, and parks.

- **Dual-Band 4-Stream Wi-Fi 5:** 300 Mbps on 2.4 GHz and 867 Mbps on 5 GHz.[†]
- **Long-Range Omnidirectional Coverage:** Features dual-band antennas with MU-MIMO technology, delivering extended coverage up to 984 ft (300 m).[‡]
- **Outdoor-Ready Durability:** Features an IP65-rated weatherproof enclosure and 6kV lightning protection.
- **Flexible Deployment with PoE Support:** 1× Gigabit PoE+ port reduces costs by delivering power and data over a single Ethernet cable.
- **Quick and Easy Setup:** Features wall/pole mounting with Omada SDN for one-click setup.
- **Advanced Features:** Centralized management, mesh, and seamless roaming.[Δ]

# Product Appearance






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# Feature Descriptions

## Omada Wi-Fi 5 Technology

Wi-Fi 5 (802.11ac) leverages MU-MIMO, beamforming, and band steering to deliver a stable and efficient wireless experience. MU-MIMO allows an access point to transmit data to multiple devices simultaneously, increasing overall throughput and reducing latency. Beamforming concentrates the wireless signal towards connected devices, creating stronger, more reliable connections over greater distances. Band steering intelligently moves dual-band clients to the less congested 5 GHz band, optimizing network performance for clients

## Long-Range Omnidirectional Coverage

A dedicated high-power amplifier and professional antennas, combined with 802.11ac Wave 2 MU-MIMO technology, deliver superior Wi-Fi performance and long-range coverage over 2.4 GHz (200 m) and 5 GHz (300 m) wireless bands. ‡

## Outdoor-Ready Design for Harsh Conditions

EAP225-Outdoor offers complete dustproof protection and withstands heavy rain and water splashes. It supports IP65 weatherproof and 6kV lightning protection, with an extended temperature tolerance range of -30 °C to 70 °C. Perfect for various challenging outdoor environments.

## Flexible Deployment with PoE Support

1× Gigabit PoE port delivers both power and data through a single cable, cutting deployment costs and outdoor wiring complexity. Works with standard PoE switches or the included passive PoE adapter for flexible installation.

## Quick and Easy Setup

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

## Cloud-Based Centralized Management

As part of Omada's unified SDN ecosystem, EAP225-Outdoor 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 automatically switching clients to the access points with the optimal signal.



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# Specifications

## Hardware Specifications

| Item | Description | |
|---|---|---|
| Wi-Fi Standards | 5 GHz: IEEE 802.11a/n/ac<br>2.4 GHz: IEEE 802.11b/g/n | |
| 802.11ac | Spatial Streams | • 5 GHz: 2×2 Downlink MU-MIMO with 2 spatial streams |
| | Frequency Bands | 5.150 to 5.250 GHz U-NII-1<br>5.250 to 5.350 GHz U-NII-2A<br>5.470 to 5.725 GHz U-NII-2C<br>5.725 to 5.850 GHz U-NII-3/ISM<br>*Note: Country-Specific Restriction Apply |
| | Bandwidth | 5 GHz: 20 MHz/40 MHz/80MHz |
| | Wireless Data Rate | • 5 GHz: 6.5 Mbps to 867 Mbps (MCS0-MCS9, NSS=1 to 2, VHT20/40/80) |
| | Radio Technology | OFDM (Orthogonal Frequency-Division Multiplexing) |
| | Modulation Type | 256-QAM. 64-QAM, 16-QAM, QPSK, BPSK |
| | Frame Aggregation | • A-MPDU (Aggregate MAC Protocol Data Unit) for Tx/Rx<br>• A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx |
| | Others | • MRC (Maximal Ratio Combining)<br>• TxBF (Transmit Beamforming)<br>DFS (Dynamic Frequency Selection)<br>• CDD (Cycle Delay Diversity)<br>• CSD (Cycle Shift Diversity)<br>• STBC (Space-Time Block Coding)<br>• LDPC (Low-Density Parity-Check) |
| 802.11n | Spatial Streams | • 2.4 GHz: 2×2 MIMO with 2 spatial streams<br>• 5 GHz: 2×2 MIMO with 2 spatial streams |
| | Frequency Bands | 2.400 to 2.4835 GHz ISM<br>5.150 to 5.250 GHz U-NII-1<br>5.250 to 5.350 GHz U-NII-2A<br>5.470 to 5.725 GHz U-NII-2C<br>5.725 to 5.850 GHz U-NII-3/ISM |
| | Bandwidth | 20 MHz/40 MHz |
| | Wireless Data Rate | • 2.4 GHz: 6.5 Mbps to 300 Mbps (MCS0-MCS7, NSS=1 to 2, HT20/40) |
| | Radio Technology | OFDM (Orthogonal Frequency-Division Multiplexing) |
| | Modulation Type | 64-QAM, 16-QAM, QPSK, BPSK |
| | Frame Aggregation | • A-MPDU (Aggregate MAC Protocol Data Unit) for Tx/Rx<br>• A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx |



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| Item | Description | |
|---|---|---|
| Antenna | Others | • MRC (Maximal Ratio Combining)<br>• TxBF (Transmit Beamforming)<br>• DFS (Dynamic Frequency Selection)<br>• CDD (Cycle Delay Diversity)<br>• CSD (Cycle Shift Diversity)<br>• STBC (Space-Time Block Coding)<br>• LDPC (Low-Density Parity-Check) |
| | Wi-Fi | 2.4 GHz:<br>• 2 × 3 dBi (peak gain), external omnidirectional antennas<br>5 GHz:<br>2 × 5 dBi (peak gain), external omnidirectional antennas |
| Interfaces | • 1 x 10M/100M/1000M Ethernet Port (RJ45); PoE in | |
| Memory | • Flash: 128 Mbit<br>• DRAM: 1024 Mbit | |
| 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:<br>• Power-on status<br>• Firmware initialization or upgrade status<br>• Uplink service status<br>• Error status | |
| Power Supply | Input | 802.3af PoE or 24 V ⎓ 0.5 A Passive PoE |
| | Output | / |
| Power Consumption | Maximum power is 10.5W | |
| Surge/Lightning Protection | ±6kV | |
| ESD/EMP Protection | 4kV (Contact) / 8kV (Air) | |
| Tx Power | Maximum transmit power | CE (ERIP)<br>• 2.4 GHz: 20 dBm<br>• 5 GHz: 27 dBm<br>FCC (Conducted Power)<br>• 2.4 GHz: 23 dBm<br>5 GHz: 22 dBm |
| | Minimum transmit power | CE (ERIP)<br>• 2.4 GHz: 7 dBm<br>• 5 GHz: 7 dBm<br>FCC (Conducted Power)<br>• 2.4 GHz: 4 dBm<br>5 GHz: 4 dBm |
| | Adjustable power increment | 1 dBm |



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| Item | | Description |
|---|---|---|
| Environment | Temperature | • Operating: -30℃ to +70℃ (-22℉ to +158℉)<br>• Storage: -40℃ to +70℃ (-40℉ to +158℉) |
| | Humidity | • Operating: 10% to 90% (non-condensing)<br>• Storage: 5% to 90% (non-condensing) |
| | Altitude | • Storage: up to + 2000m (6561feet)<br>• Operating: up to + 2000m (6561feet) |
| | Windproof | / |
| | Weatherproof Enclosure | IP65 |
| Unit | Dimensions (W×D×H) | • Main Unit: 214.9*46*26.7 mm (8.5× 1.8× 1.1 in.) (without antenna & mounting kit)<br>• Shipping Unit: 270*140*99 mm (10.6*5.5*.9 in.) |
| | Weight | • Main Unit: 0.17kg (0.374 lbs)<br>• Mounting Bracket: 0.016kg (0.035 lbs)<br>• Shipping Unit: 0.6kg (1.32 lbs) |
| | Mounting | • Pole Mount (Kits included)<br>• Wall Mount (Kits included) |



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## Software Specifications

| Item | Description | |
|---|---|---|
| Wireless Functions | Maximum number of BSSIDs | 16 (8 on each band) |
| | Maximum number of associated STAs | 228 |
| | 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 |
| | WLAN Optimization | Yes |
| | Lock to AP | Yes |
| | Rate Limit | • SSID Rate Limit<br>• Client Rate Limit |
| | Load Balance | • Maximum Associated Clients<br>• RSSI Threshold |
| | Roaming | • 802.11 k<br>• 802.11v<br>• 802.11r<br>• AI Roaming<br>*Note: Only support Layer 2 Roaming currently. |
| | Multicast/Broadcast Management | • Multicast-to-Unicast Conversion<br>• ARP-to-Unicast Conversation<br>• Multicast Filtering |
| | QoS (Quality of Service) | • WMM (Wi-Fi Multimedia)<br>• U-APSD (Unscheduled Automatic Power Save Delivery) |
| Security and Authentication | ACL | |
| | MAC Filter | |
| | 802.1X Authentication | |
| | MAC-Based Authentication | |
| | | • None<br>• Enhanced Open<br>• WPA/WPA2-Personal |
| | Radius Accounting | |



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| Item | Description | |
|---|---|---|
| | • PPSK without Radius<br>• PPSK with Radius (Generic Radius with bound MAC) | |
| | Captive Portal | • No Authentication<br>• Simple Password<br>• Hotspot (Voucher / Local User / SMS / RADIUS / Form Auth)<br>• RADIUS Server<br>• External Portal Server<br>• Pre-Authentication Access<br>• Authentication-Free Client |
| | EAP Types | • EAP-TLS<br>• EAP-TTLS<br>• EAP-PEAP<br>• EAP-CHAP<br>• EAP-SIM<br>• EAP-AKA<br>• EAP-GTC<br>• EAP-FAST<br>• EAP-PEAP<br>• EAP-MD5<br>• EAP-MSCHAPv2<br>• PEAPv0<br>• PEAPv1 |
| | Omada Controller | • Omada Controller V6.2 and above<br>• Omada Essential V6.2 and above |
| Management Methods | App | Omada App V5.1 and above |
| | Standalone Management | Yes |
| | 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 |



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| Item | Description | |
|---|---|---|
| Network Features | Restore & Backup | Yes |
| | LED Control | Yes |
| | VLAN | • SSID VLAN<br>• Dynamic VLAN<br>• Management VLAN |
| | Static IP / DHCP Client | Yes |
| | IPv4/IPv6 | Yes |
| | LLDP (Link Layer Discovery Protocol) | Yes |
| | mDNS | Yes |
| | Tools | • Ping / Traceroute<br>• Packet Capture<br>• Terminal |



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# Standards Compliance and Certifications

| Item | Category | Description |
|---|---|---|
| Standards compliance | IEEE Standards | • IEEE 802.11a/n/ac<br>• IEEE 802.11k/v/r<br>• IEEE 802.1q<br>• IEEE 802.3af<br>• IEEE 802.3x |
| | Radio Standards | • RSS-247, RSS-Gen<br>• ETSI EN 301 893, EN 62311& EN 50665<br>• FCC Part 15E, FCC Part 15C |
| | EMC standards | • EN 55032<br>• EN 55035<br>• ICES-003<br>• EN 301489-1<br>• EN 301489-17<br>• FCC Part 15B |
| | Safety Standards | • EN 62368-1<br>• IEC 62368-1<br>• IEC 60950-22 |
| | RoHS | • Directive 2011/65/EU, Directive (EU) 2015/863<br>• EN IEC 63000: 2018 |
| Certifications | • FCC/CE/ISED | |



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# 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 | 15/17 | -91 |
| | | MCS7 | 15/15 | -74 |
| | 802.11n, HT40 | MCS0 | 15/15 | -89 |
| | | MCS7 | 15/15 | -71 |
| 5 GHz | 802.11ac, VHT20 | MCS0 | 17/19 | -93 |
| | | MCS8 | 16.5/16.5 | -71 |
| | 802.11ac, VHT40 | MCS0 | 17/15 | -91 |
| | | MCS9 | 15.5/15 | -66 |
| | 802.11ac, VHT80 | MCS0 | 17/12.5 | -88 |
| | | MCS9 | 15.5/12.5 | -63 |



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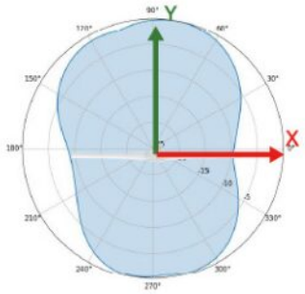
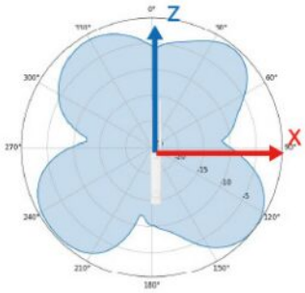
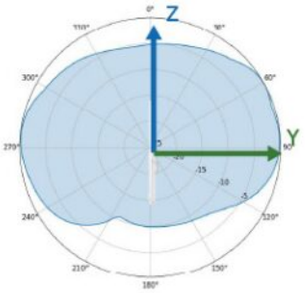
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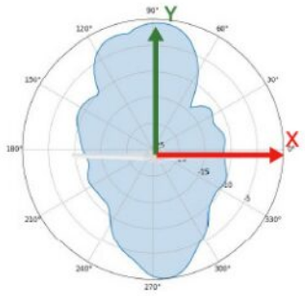
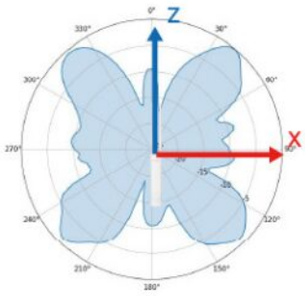
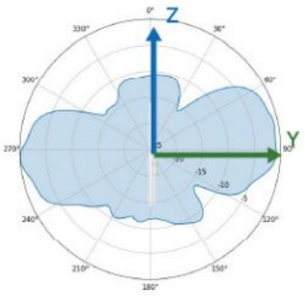
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# Antenna Radiation Patterns

## 2.4 GHz

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

## 5 GHz

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



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# Package Contents

| Item | Quantity |
|---|---|
| EAP225-Outdoor | 1 |
| Passive PoE Adapter | 1 |
| Power Cord | 1 |
| Waterproof Rubber Insert | 1 |
| Mounting Kit | 1 |
| Antenna | 2 |
| 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/



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# Revision History

| Version | Date | Description |
|---|---|---|
| V1.0 | 2026-07-31 | 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.

‡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.

ΔOmada 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.

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