



Omada AC1200

Wireless MU-MIMO Gigabit

Indoor/Outdoor Access Point

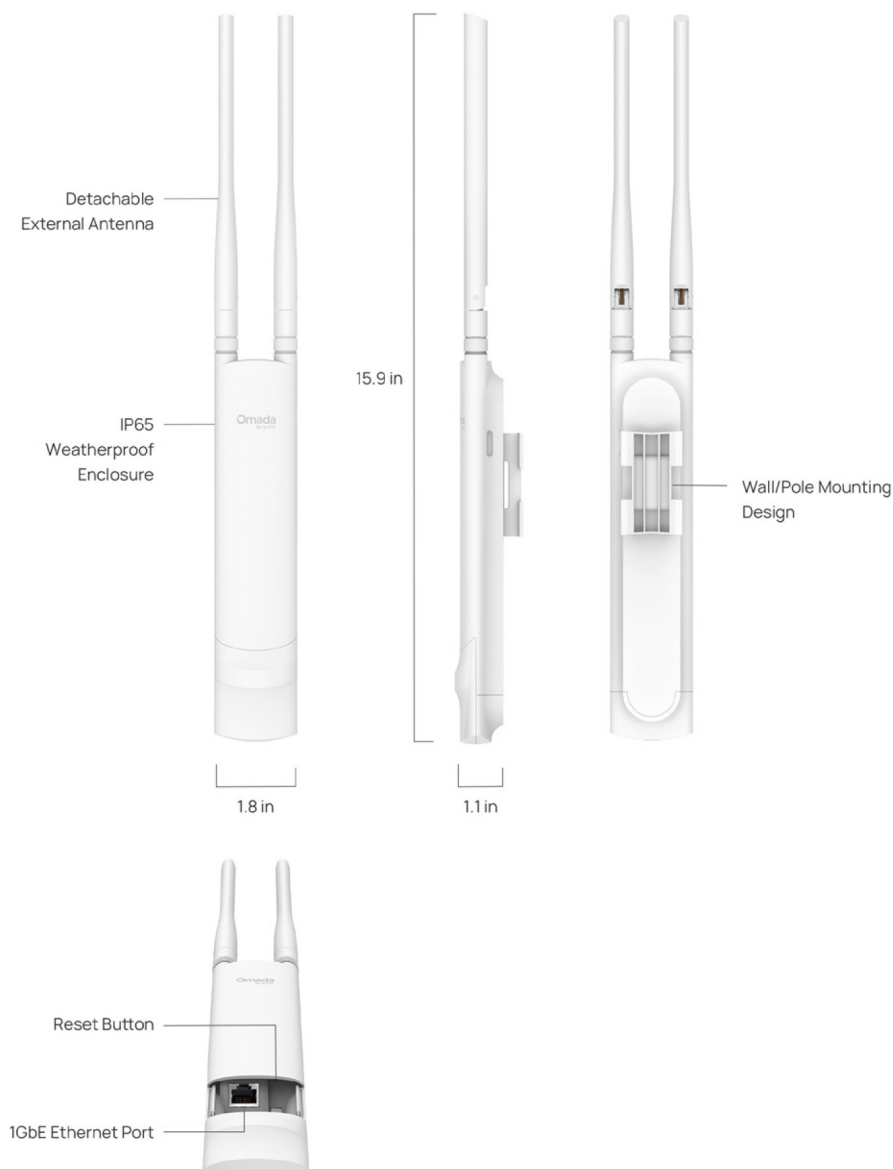
Model: EAP225-Outdoor

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



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.

Specifications

Hardware Specifications

Item	Description	
Wi-Fi Standards	5 GHz: IEEE 802.11a/n/ac 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 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/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 - A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx
	Others	- MRC (Maximal Ratio Combining) - TxBF (Transmit Beamforming) - 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	2.4 GHz: 2×2 MIMO with 2 spatial streams 5 GHz: 2×2 MIMO with 2 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
	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 - A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx

Item	Description	
	Others	• MRC (Maximal Ratio Combining) • TxBF (Transmit Beamforming) • DFS (Dynamic Frequency Selection) • CDD (Cycle Delay Diversity) • CSD (Cycle Shift Diversity) • STBC (Space-Time Block Coding) • LDPC (Low-Density Parity-Check)
Antenna	Wi-Fi	2.4 GHz: • 2 × 3 dBi (peak gain), external omnidirectional antennas 5 GHz: • 2 × 5 dBi (peak gain), external omnidirectional antennas
Interfaces	• 1 x 10M/100M/1000M Ethernet Port (RJ45); PoE in	
Memory	• Flash: 128 Mbit • 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: • Power-on status • Firmware initialization or upgrade status • Uplink service status • Error status	
Power Supply	Input	802.3af PoE or 24 V $\equiv$ 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) • 2.4 GHz: 20 dBm • 5 GHz: 27 dBm FCC (Conducted Power) • 2.4 GHz: 23 dBm • 5 GHz: 22 dBm
	Minimum transmit power	CE (ERIP) • 2.4 GHz: 7 dBm • 5 GHz: 7 dBm FCC (Conducted Power) • 2.4 GHz: 4 dBm • 5 GHz: 4 dBm
	Adjustable power increment	1 dBm

Item	Description	
Environment	Temperature	- Operating: -30°C to +70°C (-22°F to +158°F) - Storage: -40°C to +70°C (-40°F to +158°F)
	Humidity	- Operating: 10% to 90% (non-condensing) - Storage: 5% to 90% (non-condensing)
	Altitude	- Storage: up to + 2000m (6561feet) - 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) - Shipping Unit: 270*140*99 mm (10.6*5.5*.9 in.)
	Weight	- Main Unit: 0.17kg (0.374 lbs) - Mounting Bracket: 0.016kg (0.035 lbs) - Shipping Unit: 0.6kg (1.32 lbs)
	Mounting	- Pole Mount (Kits included) - Wall Mount (Kits included)

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 • Client Rate Limit
	Load Balance	• Maximum Associated Clients • RSSI Threshold
	Roaming	• 802.11 k • 802.11v • 802.11r • AI Roaming <i>*Note: Only support Layer 2 Roaming currently.</i>
	Multicast/Broadcast Management	• Multicast-to-Unicast Conversion • ARP-to-Unicast Conversation • Multicast Filtering
	QoS (Quality of Service)	• WMM (Wi-Fi Multimedia) • U-APSD (Unscheduled Automatic Power Save Delivery)
Security and Authentication	ACL	
	MAC Filter	
	802.1X Authentication	
	MAC-Based Authentication	
	• None • Enhanced Open • WPA/WPA2-Personal	
	Radius Accounting	

Item	Description	
	- PPSK without Radius - PPSK with Radius (Generic Radius with bound MAC)	
	Captive Portal	- No Authentication - Simple Password - Hotspot (Voucher / Local User / SMS / RADIUS / Form Auth) - RADIUS Server - External Portal Server - Pre-Authentication Access - Authentication-Free Client
	EAP Types	- 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	Omada Controller	- Omada Controller V6.2 and above - Omada Essential V6.2 and above
	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

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

Standards Compliance and Certifications

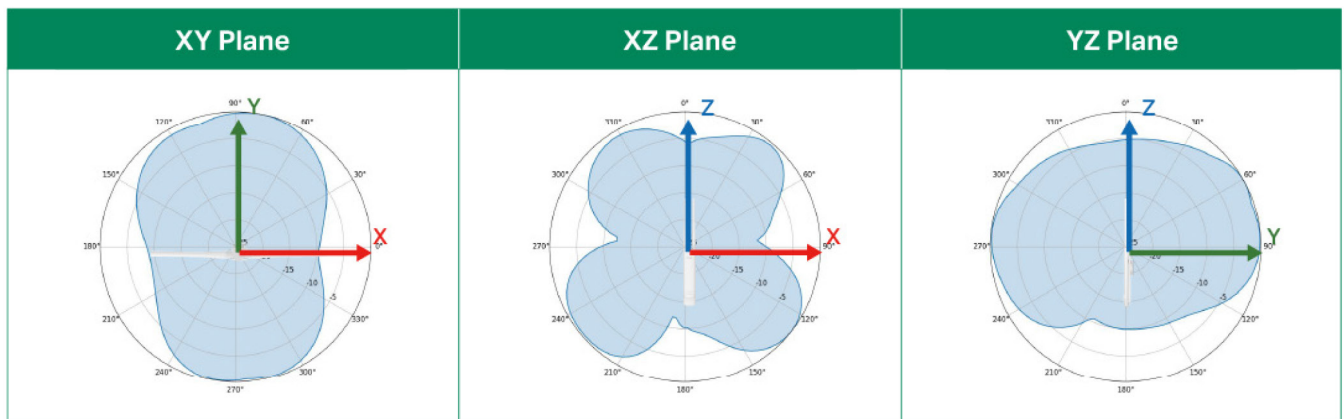
Item	Category	Description
Standards compliance	IEEE Standards	• IEEE 802.11a/n/ac • IEEE 802.11k/v/r • IEEE 802.1q • IEEE 802.3af • IEEE 802.3x
	Radio Standards	• RSS-247, RSS-Gen • ETSI EN 301 893, EN 62311& EN 50665 • FCC Part 15E, FCC Part 15C
	EMC standards	• EN 55032 • EN 55035 • ICES-003 • EN 301489-1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

RF Performance

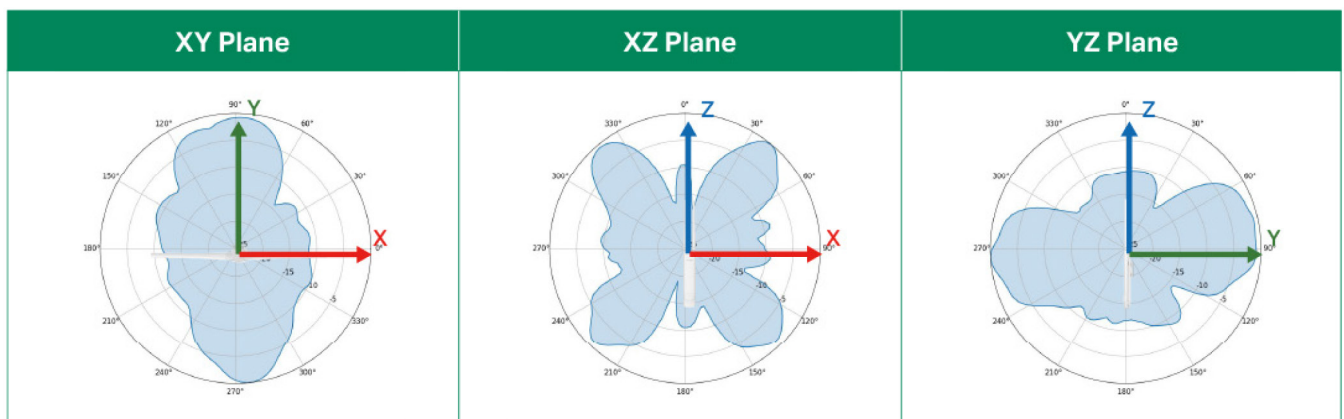
Frequency Band	Wi-Fi Protocol & Bandwidth	MCS Index / Data Rate	EU/US Maximum Transmit Power (dBm) per transmit chain	Receiver Sensitivity (dBm) per receive chain
2.4 GHz	802.11n, HT20	MCS0	15/17	-91
		MCS7	15/15	-74
	802.11n, HT40	MCS0	15/15	-89
		MCS7	15/15	-71
	802.11ac, VHT20	MCS0	17/19	-93
		MCS8	16.5/16.5	-71
5 GHz	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

Antenna Radiation Patterns

2.4 GHz



5 GHz



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/>

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.