



Omada AC1200

Wireless MU-MIMO Gigabit

Wall-Plate Access Point

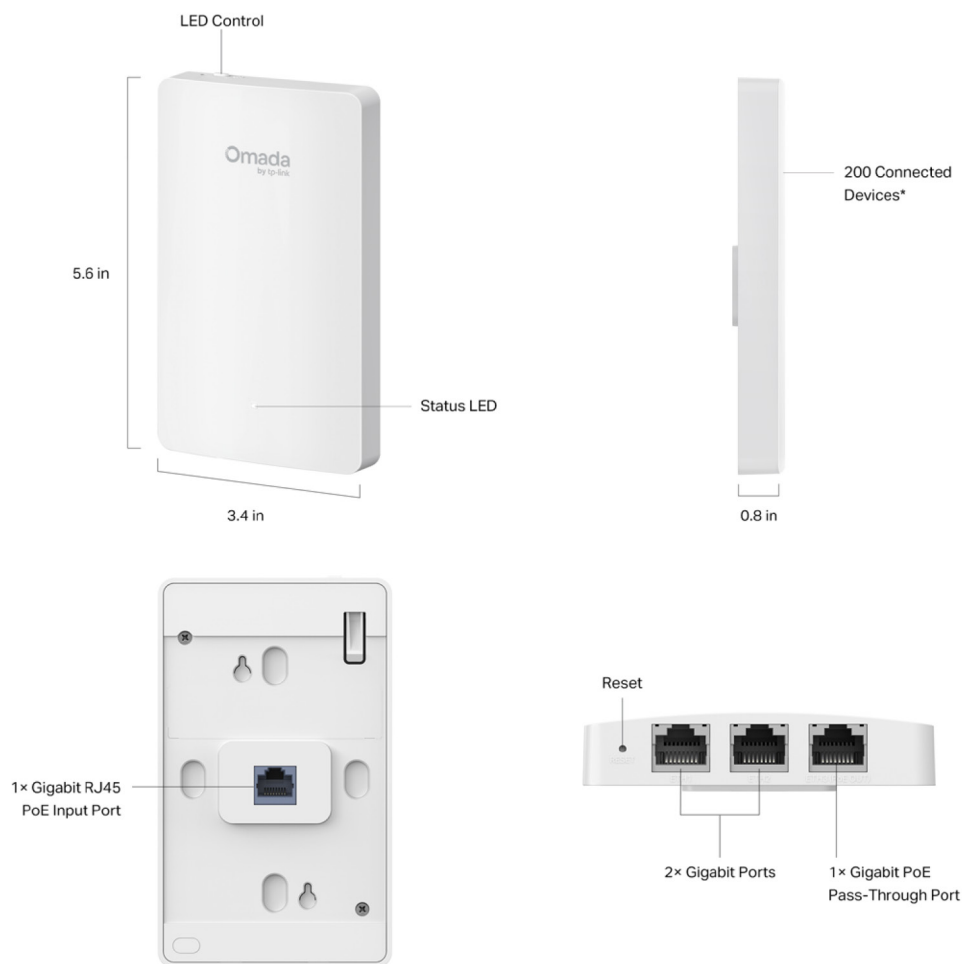
Model: EAP235-Wall

Product Overview

Featuring reliable performance and an ultra-thin design, the Omada EAP235-Wall is an ideal choice for business Wi-Fi 5 networking.

- Dual-Band Wi-Fi 5: 867 Mbps on 5 GHz, and 300 Mbps on 2.4 GHz.[†]
- Gigabit Ports with PoE Flexibility: 1× PoE Input port, 1× PoE pass-through port, and 2× RJ45 downlink ports.
- Low Congestion: MU-MIMO allows multiple devices to receive data simultaneously, reducing congestion and improving speed.[‡]
- Complete In-Room Wi-Fi Coverage: Guaranteed strong signals and corner-to-corner Wi-Fi coverage up to 300ft² (25 m²).^{*}
- Flexible Deployment and Easy Setup: Supports 802.3af/at PoE for flexible installation with Omada SDN for one-click setup.
- Advanced Features: Supports centralized cloud management and Seamless Roaming.^Δ
- More Connections: Supports up to 200 concurrent connections.^{**}

Product Appearance



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

Feature Descriptions

Omada Wi-Fi 5 Technology

802.11ac wave 2 MU-MIMO technology enables multiple users to access the internet simultaneously, which boosts your network speed up to 1,200 Mbps. Capable of transmitting in both the 2.4 GHz and 5 GHz wireless bands, EAP235-Wall offers greater compatibility to connect a variety of devices.

Gigabit Ports for Optimized Wired Performance

With Gigabit PoE input and pass-through ports, plus two RJ45 downlink ports, EAP235-Wall enables flexible installation and reliable wired connectivity. Effortlessly power devices like IP phones without the need for additional electrical cables, while ensuring fast, uninterrupted data transmission across your network.

Easy Setup via the Omada App or Web Browser, Powered by SDN

The Omada SDN supports quick setup of the EAP235-Wall through automatic device identification and one-click adoption. Access convenient configuration and on-the-go management via the Omada app or web browser.

Dedicated Complete, Private Wi-Fi Network in Each Room

EAP235-Wall in each room allows users to enjoy their own private Wi-Fi network, delivers a strong signal, and provides corner-to-corner coverage. It also offers advanced security features, including a secure guest network with up to 16 SSIDs, SMS login authentication, WPA2-Enterprise encryption, 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, EAP235-Wall integrates seamlessly with Omada switches, gateways, and controllers, delivering 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 2.4 GHz: IEEE 802.11b/g/n	
802.11ac	Spatial Streams	5 GHz: 2×2 Uplink/Downlink MU-MIMO with 2 spatial streams
	Frequency Bands	5.150 to 5.250 GHz U-NII-1 5.725 to 5.850 GHz U-NII-3/ISM Note: Country-Specific Restriction Apply
	Bandwidth	5 GHz: 20 MHz/40 MHz/80 MHz
	Wireless Data Rate	5 GHz: 6.5 Mbps to 867 Mbps (MCS0—MCS9, NSS=1 to 2, VHT20/40/80)
	Radio Technology	NA
	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	NA
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 5.725 to 5.850 GHz U-NII-3/ISM Note: Country-Specific Restriction Apply
	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) 5 GHz: 6.5 Mbps to 300 Mbps (MCS0-MCS7, NSS=1 to 2, HT20/40)
	Radio Technology	NA
	Modulation Type	64-QAM, 16-QAM, QPSK, BPSK
	Frame Aggregation	A-MPDU (Aggregate MAC Protocol Data Unit) for Tx/Rx
	Others	NA

Item	Description			
Antenna	Wi-Fi	2.4 GHz: 2 × 4 dBi (peak gain), internal omnidirectional antennas 5 GHz: 2 × 4 dBi (peak gain), internal omnidirectional antennas Note: The gains above are the single-antenna peak gains.		
Interfaces	1 x 10M/100M/1000M Gigabit Ethernet Port (RJ45) ;PoE in 2 x 10M/100M/1000M Gigabit Ethernet Port (RJ45) ; 1 x 10M/100M/1000M Gigabit Ethernet Port (RJ45) ;PoE out			
Memory	- Flash: 128Mbit - DRAM: 1024Mbit			
Button	1 × Reset button: Press the button for longer than 5 seconds to make the device restore to factory settings. 1 x LED ON/OFF Control Button			
Indicator	1 × white system LED indicates on the front: - Power-on status - Firmware initialization or upgrade status - Error status			
Reliability	MTBF (Mean Time between Failure)	273413 hours (30 years) at the operating temperature of 25°C (77°F)		
Power Supply	Input	1*802.3at PoE+: 42.5 - 57 V = 0.6A, or 1*802.3af PoE: 36 - 57 V = 0.35A		
	Output	LAN 3 port support 802.3af PoE OUT/13W, When PoE in port powered by 802.3at (PoE+)		
Power Consumption	MODE	POWER CONSUMPTION	SYSTEM CONFIGUTATION	WI-FI RADIOS (COMBINED POWER)
	802.3at PoE	9.8W (PoE out not included)	PoE Out Enabled	2.4GHz(2x2) Tx 18dBm 5GHz(2x2) Tx 18dBm
	802.3af PoE	9.8W	PoE Out Disabled	2.4GHz(2x2) Tx 18dBm 5GHz(2x2) Tx 18dBm
Surge/Lightning Protection	Ethernet Ports: ±4 kV			
ESD/EMP Protection	- Air discharge: ±8 kV - Contact discharge: ±4 kV Note: ESD/EMP Protection means Electrostatic Discharge/Electromagnetic Pulse Protection independently.			
Tx Power	Maximum transmit power	CE (EIRP) 2.4GHz: 20 dBm 5GHz: 24 dBm in U-NII-1 FCC (conducted power) 2.4GHz: 21 dBm 5GHz: 21 dBm in U-NII-1, 21 dBm in U-NII-3 Note: MIMO combined power, excluding antenna gains. The actual transmit power depends on local laws and regulations.		

Item	Description	
	Minimum transmit power	CE (EIRP) • 2.4GHz: 7dBm • 5GHz: 8dBm in U-NII-1 FCC (conducted power) • 2.4GHz: 4 dBm • 5GHz: 4 dBm in U-NII-1, 4 dBm in U-NII-3 Note: MIMO combined power, excluding antenna gains. The actual transmit power depends on local laws and regulations.
	Adjustable power increment	1 dBm
Environment	Temperature	• Operating: 0°C to +40°C (32°F to +104°F) • Storage: -30°C to +70°C (-22°F to +158°F)
	Humidity	• Operating: 10% to 90% (non-condensing) • Storage: 5% to 90% (non-condensing)
	Altitude	• Storage: up to + 2000 m (6561 feet) • Operating: up to + 2000 m (6561 feet)
Unit	Dimensions (W×D×H)	• Main Unit: 143 × 86 × 20 mm (5.6 × 3.4 × 0.8 in) • Shipping Unit: 185.5 × 118.5 × 34.5 mm (7.3 × 4.7 × 1.4 in.)
	Weight	• Main Unit: 0.22 kg (0.49 lb) • Mounting Bracket: 0.007 kg (0.016 lb) • Shipping Unit: 0.32 kg (0.71 lb)
	Mounting	Wall Plate Mounting (Kits included)

Software Specifications

Item	Description	
Wireless Functions	Maximum number of BSSIDs	16 (8 on each band)
	Maximum number of associated STAs	200
	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
Security and Authentication	Roaming	802.11k 802.11v Note: Only support Layer 2 Roaming currently.
	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)
	ACL	
Security and Authentication	MAC Filter	
	802.1X Authentication	
	MAC-Based Authentication	
	- None - WPA/WPA2 - WPA/WPA2	
	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 LDAP Server - External Portal Server - Pre-Authentication Access - Authentication-Free Client
Management methods	Omada Controller	- Omada Controller V3.2.4 and above - Omada Essential
	App	Omada App V4.7 and above
	Standalone Management	Yes
	SSH	Yes
	SNMP	v1, v2c, v3
Operating Modes	AP	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	- SSID VLAN - Dynamic VLAN - Management VLAN - Port 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

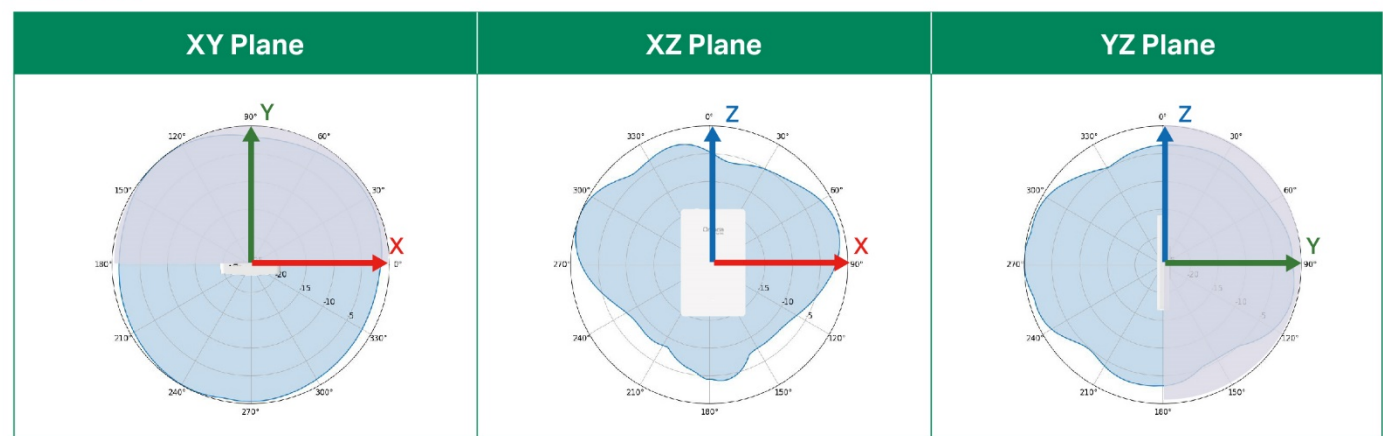
Item	Category	Description
Standards compliance	IEEE Standards	• IEEE 802.11a/b/g/n/ac • IEEE 802.11k/v • IEEE 802.11w • IEEE 802.3af • IEEE 802.3at
	Radio Standards	• ETSI EN 300 328 • ETSI EN 301 893 • EN 50385 EN IEC 62311 • FCC Part 15E • FCC Part 15C • RSS-247 • RSS-GEN • LP0002
	EMC standards	• EN 301 489-1 • EN 301 489-17 • EN 60601-1-2 • EN 55032 • EN 55035 • EN IEC 61000-3-2 • EN 61000-3-3 • FCC Part 15C • ICES-003 • CNS 15936
	Safety Standards	• EN 62368-1 • IEC 62368-1 • CNS 15598-1
	Security Standards	• WPA-Personal/Enterprise • WPA2-Personal/Enterprise
	RoHS	• Directive 2011/65/EU, Directive (EU) 2015/863 • EN IEC 63000: 2018
	Others	• Article 38-24-1 of Japan Radio Law • Article 56-1 of Japan Telecommunication Business Law • VCCI-CISPR 32
Certifications	• FCC/ISED/CE/NCC/VCCI/MIC/BSMI	

RF Performance

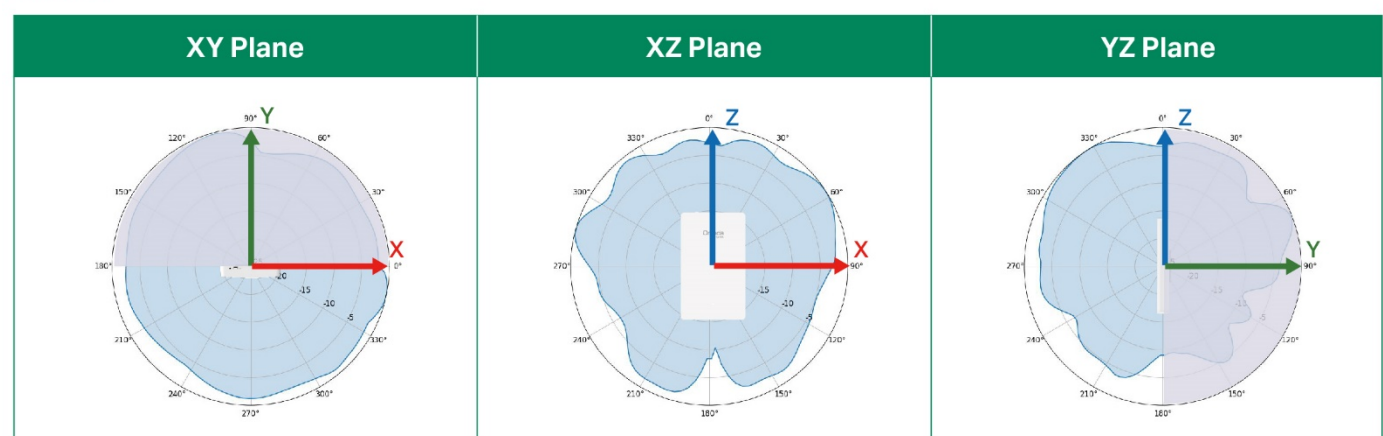
Frequency Band	Wi-Fi Protocol & Bandwidth	MCS Index / Data Rate	EU/US Maximum Transmit Power (dBm) per transmit chain	Receiver Sensitivity (dBm) per receive chain
2.4 GHz	802.11n, HT20	MCS0	15/18	-93.5
		MCS7	15/16	-75
	802.11n, HT40	MCS0	15/18	-90.5
		MCS7	15/16	-72.5
5 GHz	802.11n, HT20	MCS0	17/18	-93
		MCS7	16/16	-74
	802.11n, HT40	MCS0	17/18	-90
		MCS7	16/16	-71
	802.11ac, VHT20	MCS0	17/18	-95
		MCS7	15/15	-72
	802.11ac, VHT40	MCS0	17/18	-92
		MCS9	15/15	-67.5
	802.11ac, VHT80	MCS0	17/18	-89
		MCS9	15/15	-64

Antenna Radiation Patterns

2.4 GHz



5 GHz



Package Contents

Item	Quantity
EAP235-Wall	1
Installation Guide	1
Mounting Kit	1



The accessories may vary by country/region. Please refer to the actual product.

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	2025-09-26	Initial release.

[†] Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. The 160 MHz bandwidth is only available on the 5 GHz band. It may be unavailable in some regions/countries due to regulatory restrictions. 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.

[‡] MU-MIMO capability requires client devices that also support MU-MIMO.

^{*} Coverage 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.

[^] These features 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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