



Omada AC1200

Wireless MU-MIMO Gigabit

Wall-Plate Access Point

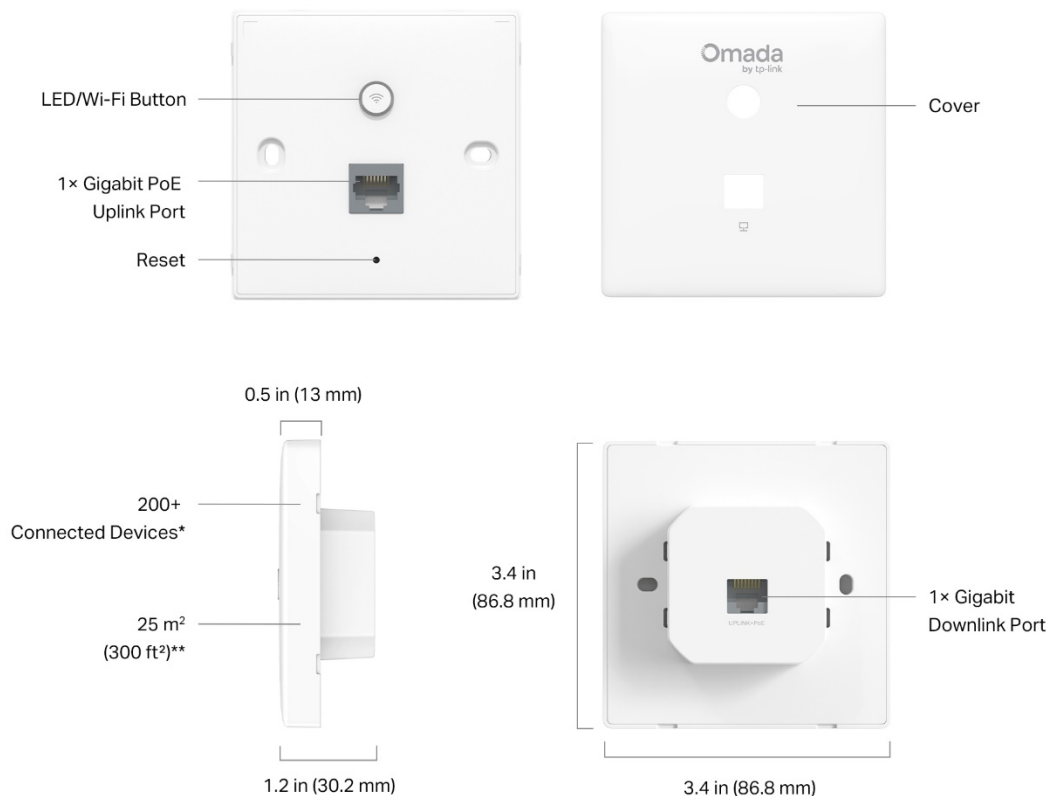
Model: EAP230-Wall

Product Overview

Featuring reliable performance and an ultra-thin design, the Omada EAP230-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.[†]
- 2× Gigabit Ports: One for PoE input, one for RJ45 downlink.
- 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 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.

^{**}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

802.11AC Wave 2 MU-MIMO

802.11ac wave 2 MU-MIMO technology enables multiple users to access the Internet simultaneously, which largely boosts up your network speed of up to 1,200 Mbps. Capable of transmitting in both 2.4 GHz and 5 GHz wireless band, EAP230-Wall provides greater compatibility to connect varieties of devices.

Gigabit Ports for Optimized Wired Performance

The EAP230-Wall includes two Gigabit ports—one for PoE input and one for RJ45 downlink—providing stable wired connections and supporting fast, reliable Wi-Fi performance.

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

The Omada SDN supports quickly set up the EAP230-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

EAP230-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, EAP230-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 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 2.472 GHz ISM 5.150 to 5.250 GHz U-NII-1 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 × 3.6 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 1 x 10M/100M/1000M Gigabit Ethernet Port (RJ45) ;			
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 WIFI/LED Multiplex 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)	123116 hours (14 years) at the operating temperature of 25°C (77°F)		
Power Supply	Input	1*802.3af PoE: 36 - 57 V/0.35A		
Power Consumption	MODE	POWER CONSUMPTION	SYSTEM CONFIGUTATION	WI-FI RADIOS (COMBINED POWER)
	802.3af PoE	7W	2.4GHz radio 2×2, 5GHz radio 2×2, wired link rate can be up to 1Gps	2.4GHz(2x2) Tx 14dBm 5GHz(2x2) Tx 11dBm
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: 18 dBm in U-NII-1 Note: MIMO combined power, excluding antenna gains. The actual transmit power depends on local laws and regulations.		
	Minimum transmit power	CE (EIRP) 2.4GHz: 7 dBm 5GHz: 8 dBm in U-NII-1 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)		

Item	Description	
	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: 86.8 × 86.8 × 30.2 mm (3.4 × 3.4 × 1.2 in) • Shipping Unit: 130 × 118 × 47 mm (5.1 × 4.7 × 1.9 in)
	Weight	• Main Unit: 0.2 kg (0.44 lb) • Shipping Unit: 0.22 kg (0.49 lb)
	Mounting	• Wall Mounting (Screws 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
	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)
Security and Authentication	ACL	
	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

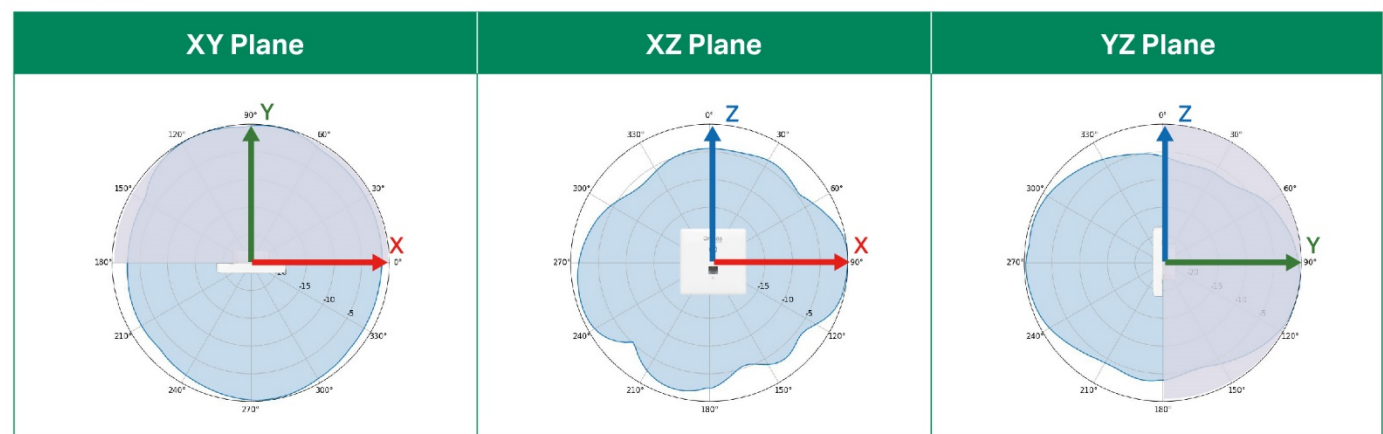
Item	Category	Description
Standards compliance	IEEE Standards	• IEEE 802.11a/b/g/n/ac • IEEE 802.11/k/v • IEEE 802.1w • IEEE 802.3at • IEEE 802.3af
	Radio Standards	• ETSI EN 300 328 • ETSI EN 301 893 • EN 50385 EN IEC 62311 • LP0002
	EMC standards	• EN 301489-1 • EN 301489-17 • EN 55032 • EN 55035
	Safety Standards	• EN 62368-1 • IEC 62368-1
	Security Standards	• WPA-Personal/Enterprise • WPA2-Personal/Enterprise
	RoHS	• Directive 2011/65/EU, Directive (EU) 2015/863 • EN IEC 63000: 2018
Certifications	• CE/NCC/NTRA	

RF Performance

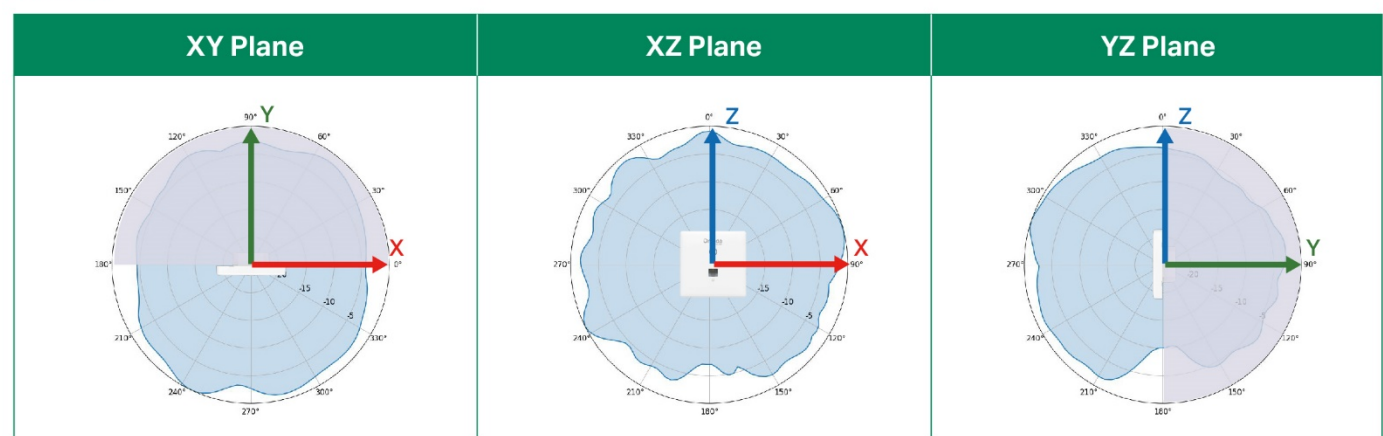
Frequency Band	Wi-Fi Protocol & Bandwidth	MCS Index / Data Rate	EU/US Maximum Transmit Power (dBm) per transmit chain	Receiver Sensitivity (dBm) per receive chain
2.4 GHz	802.11n, HT20	MCS0	14	-93.5
		MCS7	14	-75
	802.11n, HT40	MCS0	14	-90.5
		MCS7	14	-72.5
5 GHz	802.11n, HT20	MCS0	11	-93
		MCS7	11	-74
	802.11n, HT40	MCS0	11	-90
		MCS7	11	-71
	802.11ac, VHT20	MCS0	11	-95
		MCS8	11	-71.5
	802.11ac, VHT40	MCS0	11	-92
		MCS9	11	-67
	802.11ac, VHT80	MCS0	11	-89
		MCS9	11	-63.5

Antenna Radiation Patterns

2.4 GHz



5 GHz



Package Contents

Item	Quantity
EAP230-Wall	1
Installation Guide	1
Screws	4

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. 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.