

AX1800 Ceiling Mount Wi-Fi 6 Access Point

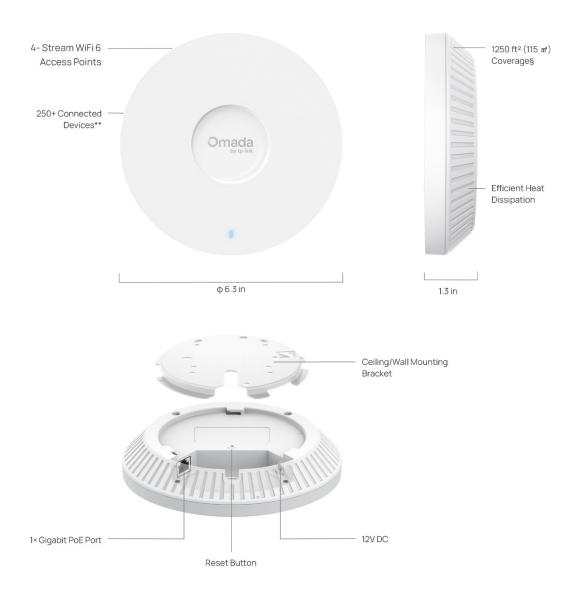
Model: EAP613

Product Overview

The Omada AX1800 4-Stream Dual-Band Ceiling Mount Access Point EAP613 is the ideal choice for an entry-level Wi-Fi 6 solution, delivering a fast, reliable, and secure dual-band Wi-Fi 6 experience.

- 4-Stream Dual-Band Wi-Fi 6: 1201 Mbps on 5 GHz and 574 Mbps on 2.4 GHz.[†]
- 1× Gigabit 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 802.3af PoE, Passive PoE, and DC power (adapter not included) for versatile installation with one-click setup via Omada SDN.
- Advanced Features: Supports centralized management, Mesh, and Seamless Roaming.[△]
- More Connections, Wider Coverage: Supports 250+ concurrent clients** and covers up to 1,250 ft² (115 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 8×8 UL/DL 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.





Higher Efficiency with OFDMA

More Simultaneous Connections with MU-MIMO

Gigabit PoE Port for Optimized Wired Performance

Boost overall network efficiency with a high-performance Gigabit PoE port, delivering blazing-fast data speeds. Compatibility with 802.3af PoE and Passive PoE is ideal for flexible deployment.

Easy Setup

Push up and rotate to lock for easy installation. Benefit from convenient setup and on-the-go network management via the Omada app or web interface.

Boosted Network Security

EAP613 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, EAP613 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.

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		
	Spatial Streams	 2.4 GHz: 2×2 Uplink/Downlink MU-MIMO with 2 spatial streams 5 GHz: 2×2 Uplink/Downlink MU-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 *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	
802.11ax	Wireless Data Rate	 2.4 GHz: 8.6 Mbps to 574 Mbps (MCS0-MCS11, NSS=1 to 2, HE20/40) 5 GHz: 8.6 Mbps to 1201 Mbps (MCS0-MCS11, NSS=1 to 2, 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	 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) 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) 	
	Spatial Streams	5 GHz: 2×2 Downlink MU-MIMO with 2 spatial streams	
802.11ac	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	 5 GHz: 6.5Mbps to 867Mbps (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) 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) 	
	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 *Note: Country-Specific Restriction Apply	
	Bandwidth	20 MHz/40 MHz	
	Wireless Data Rate	 2.4 GHz: 6.5Mbps to 300 Mbps (MCS0-MCS7, NSS=1 to 2, HT20/40) 5 GHz: 6.5Mbps to 300 Mbps (MCS0-MCS7, NSS=1 to 2, HT20/40) 	
802.11n	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 	
	Others	 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	 2.4 GHz: 2 × 4 dBi (peak gain), internal omnidirectional antennas 5 GHz: 2 × 5 dBi (peak gain), internal omnidirectional antennas The down tilt angle for maximum gain: 2.4G:30° to 45°; 5G:15° to 30° *Note: The gains above are the single-antenna peak gains. 	
Interfaces		M/1000M Multigigabit Ethernet Port (RJ45); PoE in r interface: 12VDC	
Memory	Flash: 128MlDRAM: 2Gbit		
Button	1 × Reset buttor restore to factor	r: Press the button for longer than 5 seconds to make the device ry settings.	
Indicator	 1 × single-color system LED indicates on the front: Power-on status Firmware initialization or upgrade status Uplink service status Error status 		
Reliability	MTBF (Mean Time between Failure)	EU:1110227 hours at the operating temperature of 25°C (77°F) ; US: 676566 hours at the operating temperature of 25°C (77°F)	
Power Supply	Input	802.3af PoE: 36 - 57 V=0.36A; 12 V/1 A DC	
Fower Supply	Output	1	
Power Consumption	 802.3af (PoE): 10.9w, 2.4GHz radio 2×2, 5GHz radio 2×2. Idle mode: 4.3W(PoE); 3.6W(DC) 		
Surge/Lightning Protection	Ethernet Ports: ±2 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 (ERIP) 2.4 GHz: 20 dBm 5 GHz: 23 dBm in U-NII-1, 23 dBm in U-NII-2A, 27 dBm in U-NII-2C FCC (Conducted Power) 2.4 GHz: 24 dBm 5 GHz: 24 dBm in U-NII-1, 24 dBm in U-NII-3 *Note: MIMO combined power, excluding antenna gains. The actual transmit power depends on local laws and regulations.	
TAT OWEI	Minimum transmit power	CE (ERIP) 2.4 GHz: 7 dBm 5 GHz: 7 dBm in U-NII-1, 7 dBm in U-NII-2A, 7 dBm in U-NII-2C FCC (Conducted Power) 2.4 GHz: 4 dBm 5 GHz: 4 dBm in U-NII-1 *Note: MIMO combined power, excluding antenna gains. The actual transmit power depends on local laws and regulations.	

Item	Description		
	Adjustable power increment	1 dB	
	Temperature	 Operating: 0°C to +60°C (32°F to +140°F) Storage: -40°C to +70°C (-40°F to +158°F) 	
Environment	Humidity	Operating: 10% to 90% (non-condensing)Storage: 5% to 90% (non-condensing)	
	Altitude	Storage: up to + 2000 m (6561feet)Operating: up to + 2000 m (6561feet)	
	Dimensions (W×D×H)	 Main Unit: 160 × 160 × 33.6 mm (6.3 × 6.3 × 1.3 in.) Shipping Unit: 245 × 228 × 65 mm (9.7 × 9.0 × 2.6 in.) 	
Unit	Weight	 Main Unit: 0.385 kg (0.85 lb) Mounting Bracket: 0.05 kg (0.11 lb) Shipping Unit: 0. 596 kg (1.31 lb) 	
	Mounting	 Ceiling /Wall Mounting (Kits included) Junction Box Mounting (Kits included) T-Bar Mounting (Kits included) 	

Software Specifications

Item	Description	
	Maximum number of BSSIDs	16 (8 on each band)
	Maximum number of associated STAs	256
	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	No
	WLAN Optimization	Yes
	WIDS/WIPS	No
	Lock to AP	Yes
Wireless Functions	Rate Limit	SSID Rate LimitClient Rate Limit
	Load Balance	Maximum Associated ClientsRSSI Threshold
	Roaming	 802.11 k 802.11v 802.11r Non-Stick Roaming Ping-Pong Roaming Suppression Al Roaming *Note: Only support Layer 2 Roaming currently.
	Multicast/Broadcast Management	 Multicast-to-Unicast Conversion ARP-to-Unicast Conversation Multicast Filtering Multicast/Broadcast Rate Limit
	QoS (Quality of Service)	 WMM (Wi-Fi Multimedia) DSCP (Differentiated Services Code Point) U-APSD (Unscheduled Automatic Power Save Delivery)
Security and Authentication	ACL	
Security and Addientication	MAC Filter	

Item	Description		
	802.1X Authentication		
	MAC-Based Authentication		
	 None Enhanced Open WPA/WPA2/WPA3-Personal WPA/WPA2/WPA3-Enterprise 		
	Radius Accounting		
	 PPSK without Radius PPSK with Radius (Generic Radius with bound MAC/EKMS/Generic Radius with unbound 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 	
	Omada Controller	 Omada Controller V5.15.24 and above Omada Essential V5.15.24 and above 	
Management methods	Арр	Omada App V4.24 and above	
Management methods	Standalone Management	Yes	
	Standalone Mesh	Yes	
	SSH	Yes	
	SNMP	v1, v2c, v3	
	AP	Yes	
Operating Modes	Repeater	No	
	Mesh	Yes	

Item	Description	
	System Log	Yes
	Reboot Schedule	Yes
	WLAN Schedule	Yes
Custom Fosture	NTP (Network Time Protocol)	Yes
System Feature	Email Alerts	Yes
	Firmware Upgrade	Yes
	Restore & Backup	Yes
	LED Control	Yes
	VLAN	SSID VLANDynamic VLANManagement VLAN
	Static IP / DHCP Client	Yes
	IPv4/IPv6	Yes
Network Features	LLDP (Link Layer Discovery Protocol)	Yes
	mDNS	Yes
	Tools	 Ping / Traceroute / DNSLookup / ARP Table Packet Capture Terminal

Standards Compliance and Certifications

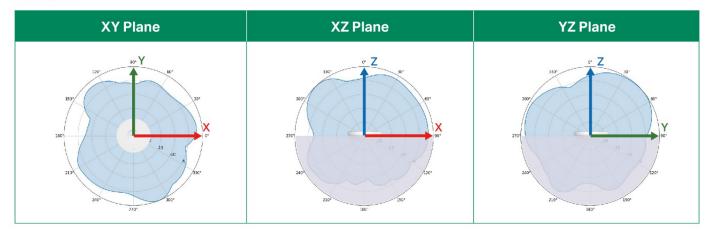
Item	Category	Description
	IEEE Standards	 IEEE 802.11a/b/g/n/ac/ax IEEE 802.11e/i/k/v/r IEEE 802.1x/q IEEE 802.3af IEEE 802.3ab IEEE 802.3x
	Radio Standards	 ETSI EN 300 328 ETSI EN 301 893 EN50665 EN IEC 62311 FCC Part 15E RSS-247, RSS-GEN LP0002
Standards compliance	EMC standards	 EN 55032 EN 55035 EN 301489-1 EN 301489-17 FCC Part 15C ICES-003 issue7 CNS 15936
	Safety Standards	 EN 62368-1 IEC 62368-1 CNS 15598-1
	Security Standards	 WPA-Personal/Enterprise WPA2-Personal/Enterprise WPA3-Personal/Enterprise OWE
	RoHS	Directive 2011/65/EU, Directive (EU) 2015/863EN IEC 63000: 2018
	Others	 Equipment Radio Regulations: 2008 (including amendments) VCCI-CISPR 32
Certifications	FCC/CE/NCC/VCCI/JRF/BSMI	

RF Performance

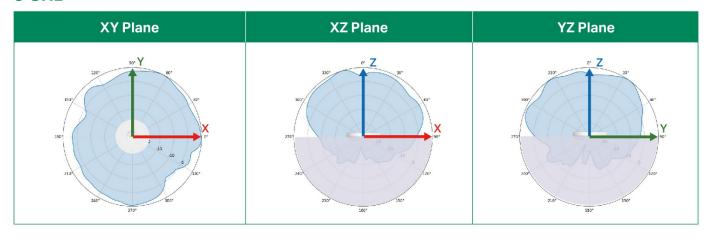
Frequency Band	Wi-Fi Protocol & Bandwidth	MCS Index / Data Rate	EU/US Maximum Transmit Power (dBm) per transmit chain	Receiver Sensitivity (dBm) per receive chain
	000 11 a LIT20	MCS0	14/20.5	-96
	802.11n, HT20	MCS7	14/17	-77
	000 11m LIT40	MCS0	14/19	-93
2.4.011-	802.11n, HT40	MCS7	14/17.5	-74
2.4 GHz	002 11ov UE20	MCS0	14/20.5	-97
	802.11ax, HE20	MCS11	14/16	-67
	000 11 115 40	MCS0	14/19	-94
	802.11ax, HE40	MCS11	14/16	-64
	802.11n, HT20	MCS0	20.5/20.5	-94
		MCS7	17.5/17.5	-75
	802.11n, HT40	MCS0	20.5/20.5	-91
		MCS7	17.5/17.5	-71.5
	802.11ac, HT20	MCS0	20.5/20.5	-94
		MCS8	16.5/16.5	-75
	000 44 LIT40	MCS0	20.5/20.5	-91
5.011-	802.11ac, HT40	MCS9	16.5/16.5	-66
5 GHz	000 44 LITO	MCS0	20.5/20.5	-87.5
	802.11ac, HT80	MCS9	16.5/16.5	-62
		MCS0	20.5/20.5	-94.5
	802.11ax, HE20	MCS11	16/16	-64.5
	000 11 115 10	MCS0	20.5/20.5	-91.5
	802.11ax, HE40	MCS11	16/16	-61
		MCS0	20.5/20.5	-89
	802.11ax, HE80	MCS11	16/16	-59

Antenna Radiation Patterns

2.4 GHz

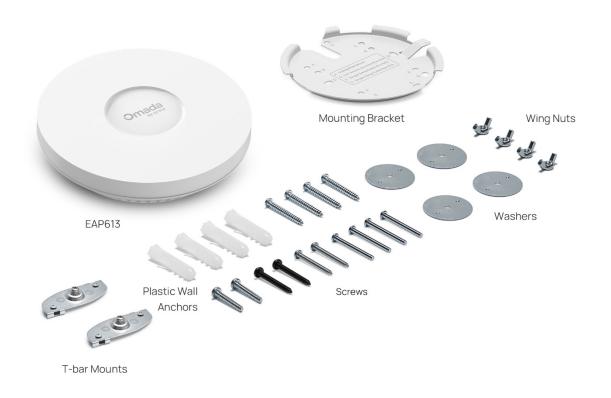


5 GHz



Package Contents

ltem	Quantity
EAP613	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 TP-Link Business products.

- Email Contact: https://support.omadanetworks.com/email-feedback/
- Online Chat Contact: https://support.omadanetworks.com/contact-support/
- Warranty Services: https://www.omadanetworks.com/support/replacement-warranty/

Revision History

Version	Date	Description
V1.0	2025-06-23	Initial release.

- [†] Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage are not guaranteed and will vary as a result of 1) environmental factors, including building materials, physical objects, and obstacles, 2) network conditions, including local interference, volume and density of traffic, product location, network complexity, and network overhead, and 3) client limitations, including rated performance, location, connection, quality, and client condition.
- [‡] 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 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. Please refer to the User Guides of Omada controllers for configuration methods.

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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