



Omada AX1800 Wall Plate Wi-Fi 6 Access Point

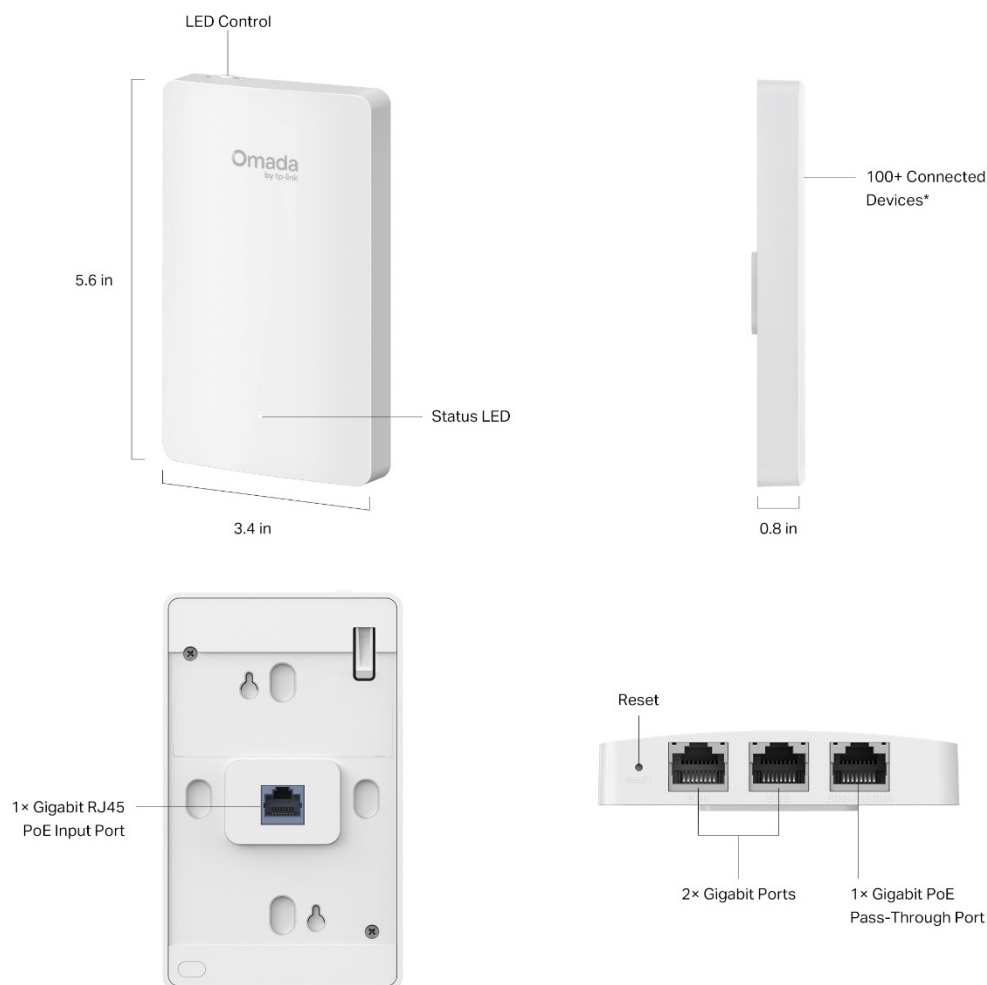
Model: EAP615-Wall

Product Overview

The Omada AX1800 Wall Plate Wi-Fi 6 Access Point EAP615-Wall is the ideal choice for an entry-level Wi-Fi 6 Solution, delivering a fast, reliable, and secure dual-band Wi-Fi 6 experience.

- Dual-Band Wi-Fi 6: 1,201 Mbps on 5 GHz, and 574 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 Latency and Interference: MU-MIMO, OFDMA, and 1024-QAM ensure high performance for your network.[‡]
- Complete In-Room Wi-Fi Coverage: Guaranteed strong signals and corner-to-corner Wi-Fi coverage up to 600ft² (50 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, mesh, and seamless roaming.^Δ
- More Connections: Supports up to 120+ 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 6 Technology

Wi-Fi 6 (802.11ax) supports 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 Ports for Optimized Wired Performance

With Gigabit PoE input and pass-through ports, plus two RJ45 downlink ports, EAP615-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, web browser, or SDN

The Omada SDN supports quick setup of the EAP615-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

EAP615-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, the EAP615-Wall works harmoniously 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	
802.11ax	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
	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	- TWT (Target Wake Time) - 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)
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/80 MHz
	Wireless Data Rate	5 GHz: 6.5Mbps to 867Mbps (MCS0-MCS9, NSS=1 to 2, VHT20/40/80)

Item	Description	
	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 <i>*Note: Country-Specific Restriction Apply</i>
	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)
	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) - 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), internal omnidirectional antennas 5 GHz: 2 × 4 dBi (peak gain), internal omnidirectional antennas <i>*Note: The gains above are the single-antenna peak gains.</i>
Interfaces	Uplink: 1× 10/100/1000 Mbps Ethernet Port (RJ45); POE In Downlink: 3× 10/100/1000 Mbps Ethernet Ports (RJ45); One port supports PoE OUT	
Memory	- Flash: 128Mbit - DRAM: 1024Mbit	

Item	Description	
Button	1 × Reset button: Press the button for longer than 5 seconds to make the device restore to factory settings. 1 × LED Button	
Indicator	1 × white LED on the front: - Power-on status - Firmware initialization or upgrade status - Error status	
Reliability	MTBF (Mean Time between Failure)	EU: 820865 hours at the operating temperature of 25°C (77°F) ; US: 805533 hours at the operating temperature of 25°C (77°F)
Power Supply	Input	802.3at PoE+: 42.5 - 57 V/ 0.6A, or 802.3af PoE: 36 - 57 V/0.35A
	Output	US: Passive POE:41.5V-55V/0.29A EU: Passive POE:41.5V-55V/0.32A
Power Consumption	802.3af/at POE: 11.5w (PoE out not included), 2.4GHz radio 2×2, 5GHz radio 2×2. Idle mode: 4.16W(PoE)	
Surge/Lightning Protection	Ethernet Ports: ±2 kV	
ESD/EMP Protection	- Air discharge: ±8 kV - Contact discharge: ±4 kV <i>*Note: ESD/EMP Protection means Electrostatic Discharge/Electromagnetic Pulse Protection independently.</i>	
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, 24 dBm in U-NII-2C FCC (Conducted Power) 2.4 GHz: 21 dBm 5 GHz: 21 dBm in U-NII-1, 21 dBm in U-NII-2A, 21 dBm in U-NII-2C, 21 dBm in U-NII-3 <i>*Note: MIMO combined power, excluding antenna gains. The actual transmit power depends on local laws and regulations.</i>
	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, 4 dBm in U-NII-2A, 4 dBm in U-NII-2C, 4 dBm in U-NII-3 <i>*Note: MIMO combined power, excluding antenna gains. The actual transmit power depends on local laws and regulations.</i>

Item	Description	
	Adjustable power increment	1 dBm
Environment	Temperature	- Operating: 0°C to +40°C (32°F to +104°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)
Unit	Dimensions (W×D×H)	- Main Unit: 143 × 86 × 19.7 mm (5.6× 3.4× 0.8 in.) - Shipping Unit: 139 × 127 × 55 mm (5.5 × 5 × 2.2 in.)
	Weight	- Main Unit: 0.22 kg (0.49 lb) - Mounting Bracket: 0.007 kg (0.016 lb) - Shipping Unit: 0.336 kg (0.74 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	128
	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
	Rate Limit	- SSID Rate Limit - Client Rate Limit
	Load Balance	- Maximum Associated Clients - RSSI Threshold
	Roaming	802.11 k 802.11v 802.11r - Non-Stick Roaming - 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) - DSCP (Differentiated Services Code Point) - U-APSD (Unscheduled Automatic Power Save Delivery)
Security and Authentication	ACL	
	MAC Filter	
	802.1X Authentication	

Item	Description	
	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
Management methods	Omada Controller	• Omada Controller V5.14.25 and above • Omada Essential V5.14.25 and above
	App	Omada App V4.24 and above
	Standalone Management	Yes
	Standalone Mesh	Yes
	SSH	Yes
	SNMP	v1, v2c, v3
Operating Modes	AP	Yes
	Mesh	Yes
System Feature	System Log	Yes
	Reboot Schedule	Yes

Item	Description	
	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
	Static IP / DHCP Client	Yes
	IPv4/IPv6	Yes
	LLDP (Link Layer Discovery Protocol)	Yes
	mDNS	Yes
	Tools	• Ping / Traceroute / DNSLookup • Packet Capture • Terminal

Standards Compliance and Certifications

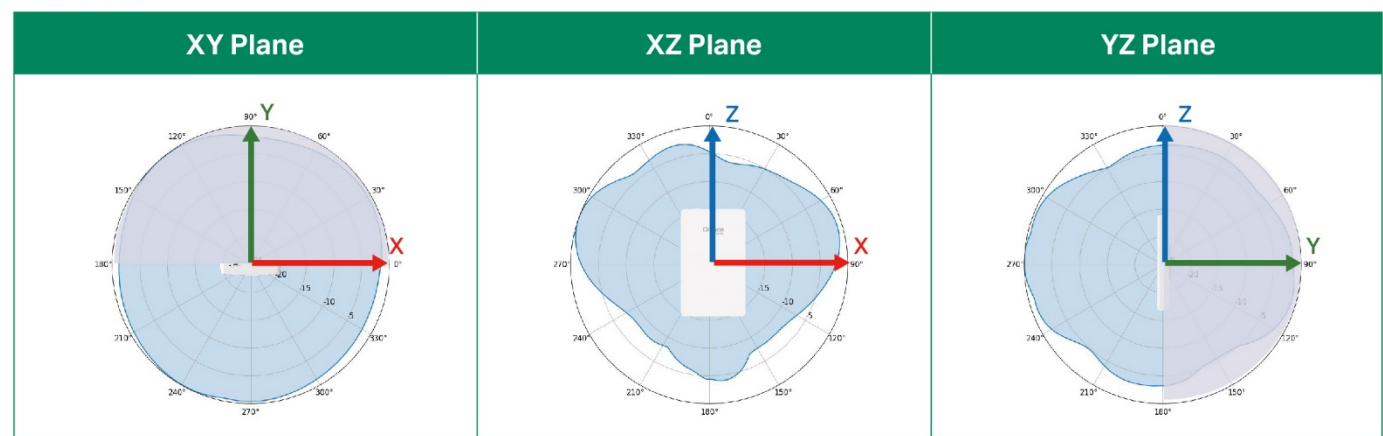
Item	Category	Description
Standards compliance	IEEE Standards	• IEEE 802.11a/b/g/n/ac/ax • IEEE 802.11e/i/k/v/r • IEEE 802.1x/q • IEEE 802.3at • IEEE 802.3ab • IEEE 802.3bz • IEEE 802.3x
	Radio Standards	• ETSI EN 300 328 • ETSI EN 301 893 • EN IEC 62311 • FCC Part 15E • RSS-247, RSS-GEN • LP0002
	EMC 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
	RoHS	• Directive 2011/65/EU, Directive (EU) 2015/863 • EN IEC 63000: 2018
	Others	• Equipment Radio Regulations: 2008 (including amendments) • VCCI-CISPR 32
Certifications	• FCC/CE/NCC/VCCI/JRF/BSMI/NTRA	

RF Performance

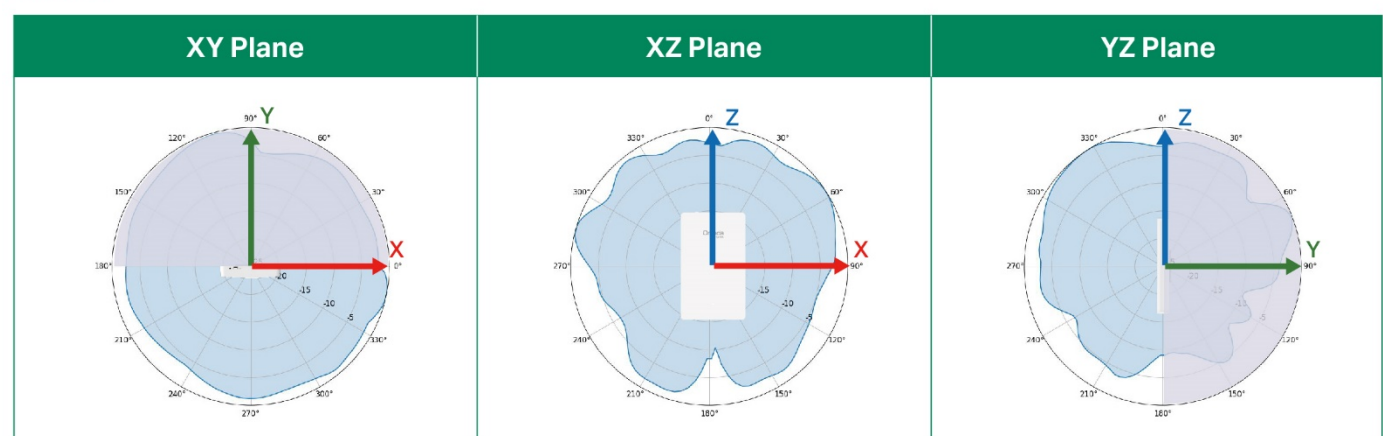
Frequency Band	Wi-Fi Protocol & Bandwidth	MCS Index / Data Rate	EU/US Maximum Transmit Power (dBm) per transmit chain	Receiver Sensitivity (dBm) per receive chain
2.4 GHz	802.11n, HT20	MCS0	14/18	-97
		MCS7	14/18	-78
	802.11n, HT40	MCS0	14/18	-94
		MCS7	14/18	-75
	802.11ax, HE20	MCS0	14/18	-97
		MCS11	14/15	-67
	802.11ax, HE40	MCS0	14/18	-94
		MCS11	14/15	-64
5 GHz	802.11n, HT20	MCS0	18/18	-95
		MCS7	18/18	-75.5
	802.11n, HT40	MCS0	18/18	-91.5
		MCS7	18/18	-72
	802.11ac, VHT20	MCS0	18/18	-95.5
		MCS8	17/17	-76
	802.11ac, VHT40	MCS0	18/18	-92.5
		MCS9	16/16	-67
	802.11ac, VHT80	MCS0	18/18	-89.5
		MCS9	16/16	-64
	802.11ax, HE20	MCS0	18/18	-94.5
		MCS11	15/15	-64.5
	802.11ax, HE40	MCS0	18/18	-91.5
		MCS11	15/15	-61
	802.11ax, HE80	MCS0	18/18	-89
		MCS11	15/15	-59

Antenna Radiation Patterns

2.4 GHz



5 GHz



Package Contents

Item	Quantity
EAP615-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	2025-09-23	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.

[‡] 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.

[^] 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.