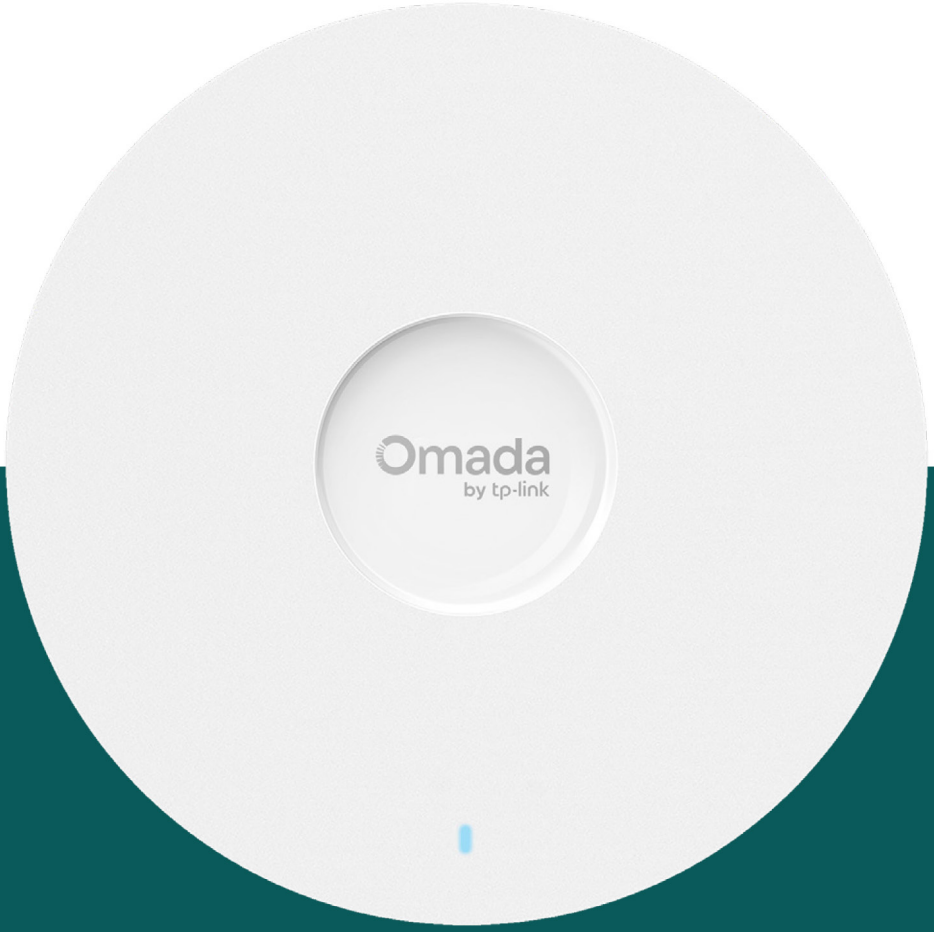
Datasheet



Omada AX3600 Ceiling Mount Wi-Fi 6 Access Point

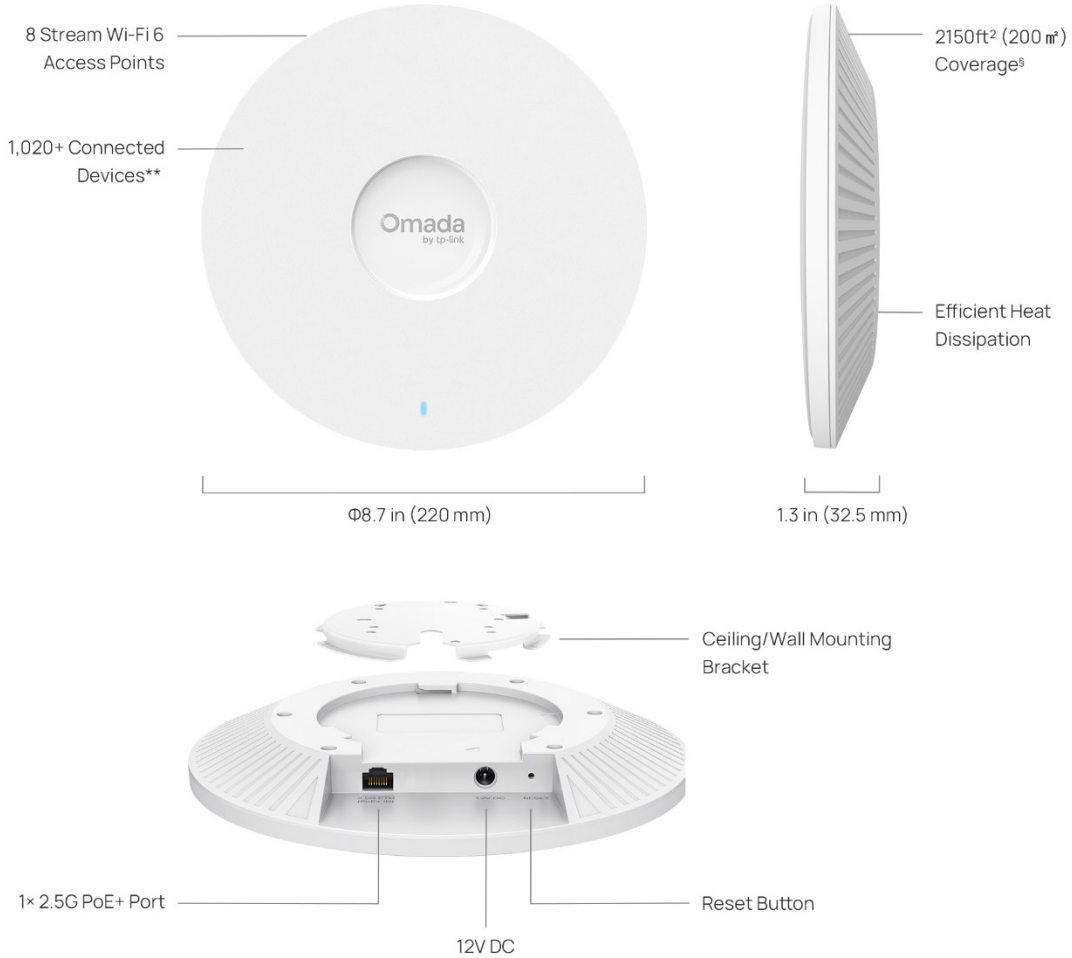
Model: EAP660 HD

Product Overview

The Omada AX3600 Dual-Band Ceiling Mount Access Point EAP660 HD delivers reliable connectivity and enhanced capacity for busy environments. It leverages core Wi-Fi 6 technologies to efficiently manage more simultaneous connections, ensuring a stable and consistent user experience.

- **8-Stream Dual-Band Wi-Fi 6:** 2,402 Mbps on 5 GHz and 1,148 Mbps on 2.4 GHz.†
- **High-Density Connectivity:** Up to 1,000+ Concurrent connections in crowded network environments.**
- **1× 2.5G 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 both 802.3at PoE and DC Power supply for flexible installation. Omada SDN for one-click setup.
- **Advanced Features:** Supports centralized cloud management, mesh, and seamless roaming.△
- **Wider Coverage:** Covers up to 2150 ft² (200 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 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

Reliable Performance for High-Density Scenes

OFDMA and Uplink/Downlink MU-MIMO provide simultaneous connections for dozens of clients, optimizing network efficiency in high-density deployments. Leverage multi-user capabilities and upgrade your business like never before.

2.5G PoE Ports for Optimized Wired Performance

Boost overall network efficiency with a high-performance 2.5G PoE port, delivering blazing-fast data speeds. Compatibility with 802.3at PoE is ideal for flexible deployment.

Easy Setup via the Omada app, web browser, or SDN

The Omada SDN supports quick setup of EAP660 HD through automatic device identification and one-click adoption. Configure and manage on the go via the Omada app or web browser.

Boosted Network Security

EAP660 HD 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, the EAP660 HD 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: 4×4 Uplink/Downlink MU-MIMO with 4 spatial streams • 5 GHz: 4×4 Uplink/Downlink MU-MIMO with 4 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 1148 Mbps (MCS0-MCS11, NSS=1 to 4, HE20/40) • 5 GHz: 8.6 Mbps to 2402 Mbps (MCS0-MCS11, NSS=1 to 4, 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)
802.11ac	Spatial Streams	• 5 GHz: 4×4 Downlink MU-MIMO with 4 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

Item	Description	
	Wireless Data Rate	• 5 GHz: 6.5Mbps to 1733.3Mbps (MCS0-MCS11, NSS=1 to 4, 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)
802.11n	Spatial Streams	• 2.4 GHz: 4×4 MIMO with 4 spatial streams • 5 GHz: 4×4 MIMO with 4 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 600 Mbps (MCS0-MCS7, NSS=1 to 4, HT20/40) • 5 GHz: 6.5Mbps to 600 Mbps (MCS0-MCS7, NSS=1 to 4, 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) • 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: 4 × 6 dBi (peak gain), internal omnidirectional antennas • 5 GHz: 4 × 6.5 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	• 1 x 10M/100M/1000M/2500M Multigigabit Ethernet Port (RJ45); PoE in • 1 x DC power interface: 12VDC	
IoT	• BLE5.2,1Mbps	
Memory	• Flash: NAND 128MB *1 • DRAM: DDR3 4Gbit *2	
Button	1 × Reset button: Press the button for longer than 5 seconds to make the device restore to factory settings.	
Indicator	1 × blue 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: 346690 hours at the operating temperature of 25℃ (77℉) ; US: 314609 hours at the operating temperature of 25℃ (77℉)
Power Supply	Input	802.3at PoE+: 42.5 - 57 V, 0.6A; 12 V/2 A DC
	Output	/
Power Consumption	• 802.3at (PoE): 22.5W (for US)/21.5W (for EU), 2.4GHz radio 4×4, 5GHz radio 4×4. wired link rate can be up to 2.5Gps • Idle mode: 11.1W(PoE), 9.2W(DC) for US; 10W(PoE), 8.4W(DC) for EU	
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 (EIRP) • 2.4 GHz: 20 dBm • 5 GHz: 23 dBm in U-NII-1, 23 dBm in U-NII-2A, 30 dBm in U-NII-2C FCC (Conducted Power) • 2.4 GHz: 22 dBm • 5 GHz: 22 dBm in U-NII-1, 22 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 dB
Environment	Temperature	• Operating: 0℃ to +40℃ (32℉ to +104℉) • Storage: -40℃ to +70℃ (-40℉ to +158℉)

Item	Description	
	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)
Unit	Dimensions (W×D×H)	• Main Unit: 220 × 220 × 32.5 mm (8.7 × 8.7 × 1.3 in.) • Shipping Unit: 280 × 259 × 91 mm (11.0 × 10.2 × 3.6 in.)
	Weight	• Main Unit: 0.75 kg (1.65 lbs) • Mounting Bracket: 0.05 kg (0.11 lbs) • Shipping Unit: 1.2 kg (2.6 lbs)
	Mounting	• Ceiling /Wall/Junction Box/T-Bar Mounting (Kits included)

Software Specifications

Item	Description	
Wireless Functions	Maximum number of BSSIDs	16 (8 on each band)
	Maximum number of associated STAs	1000+
	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	Yes
	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
	MLO	No
	Roaming	• 802.11 k • 802.11v • 802.11r • Non-Stick Roaming • Ping-Pong Roaming Suppression • AI 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)

Item	Description	
	Others	• EoGRE Tunnel
Security and Authentication	ACL	
	MAC Filter	
	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 LDAP 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 Local Controller V6.0 and above • Omada CBC V6.0 and above
	App	Omada App V5.0 and above
	Standalone Management	Yes
	Standalone Mesh	Yes
	SSH	Yes

Item	Description	
	SNMP	v1, v2c, v3
Operating Modes	AP	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
	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

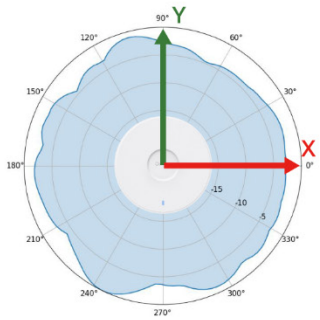
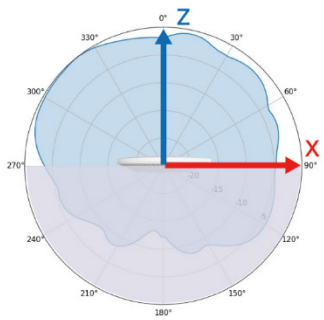
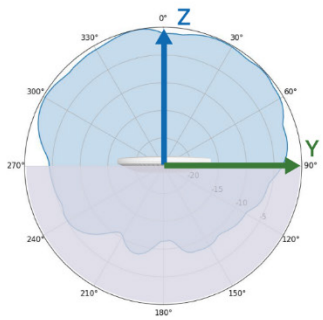
Item	Category	Description
Standards Compliance	IEEE Standards	• IEEE 802.11a/b/g/n/ac/ax • IEEE 802.11e/i/k/v/r • IEEE 802.1x/q • IEEE 802.3at • IEEE 802.3ab • IEEE 802.3x
	Radio Standards	• ETSI EN 300 328 • ETSI EN 301 893 • ETSI EN302 502 • FCC Part 15E • FCC Part 15C • RSS-247, RSS-GEN
	EMC Standards	• EN 55032 • EN 55035 • EN 301489-1 • EN 301489-17 • EN 61000-3-3 • EN IEC 61000-3-2 • EN 60601-1-2 • FCC Part 15B • ICES-003 • VCCI-CISPR 32
	Safety Standards	• EN IEC 62368-1
	RoHS	• Directive 2011/65/EU, Directive (EU) 2015/863 • EN IEC 63000: 2018
	Others	• Equipment Radio Regulations: 2008 (including amendments)
Certifications	• FCC/IC, CE/NTRA, JRF,VCCI, WFA	

RF Performance

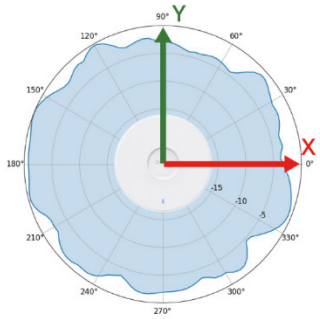
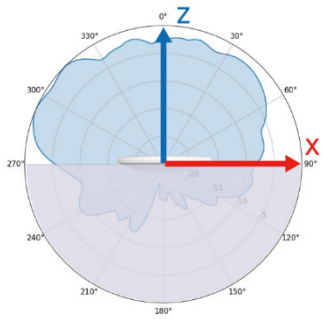
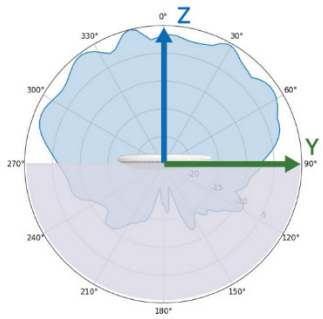
Frequency Band	Wi-Fi Protocol & Bandwidth	MCS Index / Data Rate	EU/US Maximum Transmit Power (dBm) per transmit chain	Receiver Sensitivity (dBm) per receive chain
2.4 GHz	802.11n, HT20	MCS0	12/19.5	-95
		MCS7	12/18	-77
	802.11n, HT40	MCS0	12/18	-93
		MCS7	12/18	-74
	802.11ax, HE20	MCS0	12/19	-95
		MCS11	12/16	-66
	802.11ax, HE40	MCS0	12/18	-93
		MCS11	12/16	-63
5 GHz	802.11n, HT20	MCS0	15/20	-94
		MCS7	15/18	-75
	802.11n, HT40	MCS0	15/20	-90.5
		MCS7	15/18	-72
	802.11ac, VHT20	MCS0	15/20	-94
		MCS8	15/17.5	-75
	802.11ac, VHT40	MCS0	15/20	-90.5
		MCS9	15/17	-72
	802.11ac, HT80	MCS0	15/20	-88.5
		MCS9	15/17	-63
	802.11ax, HE20	MCS0	15/20	-94
		MCS11	15/16	-64.5
	802.11ax, HE40	MCS0	15/20	-90.5
		MCS11	15/16	-63
	802.11ax, HE80	MCS0	15/20	-88.5
		MCS11	15/16	-60.5

Antenna Radiation Patterns

2.4 GHz

XY Plane	XZ Plane	YZ Plane
		

5 GHz

XY Plane	XZ Plane	YZ Plane
		

Package Contents

Item	Quantity
EAP660 HD	1
Installation Guide	1
Power Adapter	1
Mounting Kit	1
Cable Compartment Cover	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	2026-02-11	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.

‡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 value 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.

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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