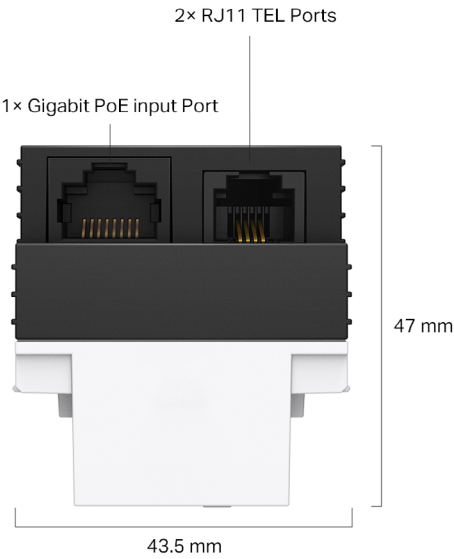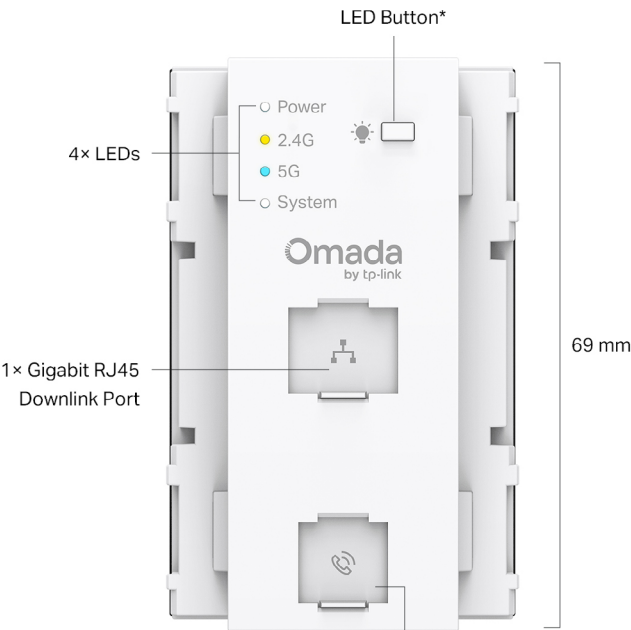# EAP | Datasheet

EAP615-WE

AX1800 In-Wall Wi-Fi 6 Access Point

Highlights

- **Ultra-Fast AX1800 WiFi 6 Speeds:** Simultaneous 574 Mbps on 2.4 GHz and 1201 Mbps on 5 GHz totals 1775 Mbps WiFi speeds.*

- **Complete In-Room WiFi Coverage:** Guaranteed strong signals and corner-to-corner WiFi coverage.

- **Multiple Gigabit Ports:** Connect multiple devices with two 1GbE ports (1 uplink +1 downlink). Two RJ11 ports are ideal for indoor telephone line use.

- **Centralized Cloud Management:** Integrates into Omada SDN for cloud access and remote management.

- **Secure Guest Network:** Implement multiple authentication options (SMS/Voucher) packed with high-quality wireless security technologies.*

- **In-Wall Design for Easy Installation:** Concealed wall-mounted design with 802.3af PoE support.

Product Pictures

LED Button*

Double-Sided Metal
Heat Dissipation

○ Power
● 2.4G
● 5G
○ System

4× LEDs

Omada
by tp-link

1× Gigabit RJ45
Downlink Port
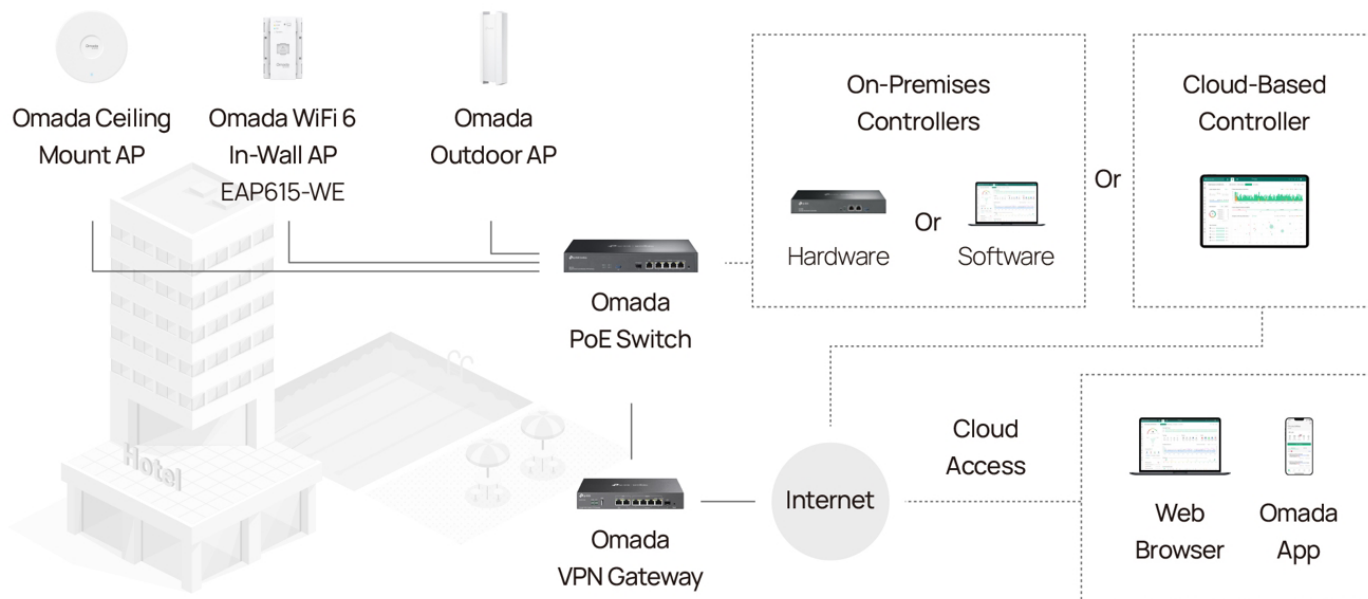
69 mm

2× RJ11 TEL Ports

1× Gigabit PoE input Port

47 mm

43.5 mm

*Press and hold for 20 seconds to enter reset mode.

Omada Solution

Omada's Software Defined Networking (SDN) platform integrates network devices, including access points, switches, and gateways, providing 100% centralized cloud management. Omada creates a highly scalable network—all controlled from a single interface.

Omada Ceiling Mount AP

Omada WiFi 6 In-Wall AP EAP615-WE

Omada Outdoor AP

Omada PoE Switch

Omada VPN Gateway

On-Premises Controllers

Hardware Or Software

Or

Cloud-Based Controller

Internet

Cloud Access

Web Browser

Omada App

Specifications

Model		EAP615-WE
Name		AX1800 In-Wall Wi-Fi 6 Access Point
Main Design	Interfaces	2× Gigabit Ethernet Port, 2× RJ11 TEL ports
	Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax
	Maximum Data Rate	574 Mbps (2.4 GHz) + 1201 Mbps (5 GHz)
	Wireless Client Capacity	250+
	Antennas	2.4 GHz: 2x3 dBi 5 GHz: 2x4 dBi
	Transmit Power	2.4 GHz: 19 dBm (EIRP) 5 GHz: 20 dBm (EIRP)
	Reception Sensitivity	2.4 GHz: 11ax HE20 MCS0:-94dBm;11ax HE20 MCS11:-65dBm;11ax HE40 MCS0:-92dBm;11ax HE40 MCS11:-63dBm 5 GHz: 11ax HE20 MCS0:-94dBm;11ax HE20 MCS11:-64dBm;11ax HE40 MCS0:-91dBm;11ax HE40 MCS11:-62dBm;11ax HE80 MCS0:-87dBm;11ax HE80 MCS11:-58dBm;
Centralized Management	Omada Software Controller	•
	Omada Hardware Controller	•
	Omada APP	•
Security	Captive Portal Authentication	•
	Access Control	•
	Maximum number of MAC Filter	4000
	Wireless Isolation between Clients	•
	VLAN	•
	Rogue AP Detection	•
	Wireless Encryption	WPA-Personal/Enterprise, WPA2-Personal/Enterprise, WPA3-Personal/Enterprise
	802.1X Support	•

Wireless Function	Multiple SSIDs	16 (8 on each band)
	Channel	2.4 GHz: 1-13 5 GHz: 36,40,44,48,52,56,60,64,100,104,108,112,116,120,124,128,132,136,140
	Enable/Disable Wireless Radio	•
	Enable/Disable SSID Broadcast	•
	Guest Network	•
	Automatic Channel Assignment	•
	Transmit Power Control	Adjust transmit Power on dBm
	QoS (WMM)	•
	Seamless Roaming	•
	Mesh	•
	Beamforming	•
	MIMO	2x2 MU-MIMO DL/UL
	MU-MIMO	2*2 (2.4G and 5G) MU-MIMO
	OFDMA	UL/DL OFDMA
	Rate Limit	Based on SSID/Client
	Load Balance	•
	Airtime Fairness	-
	Band Steering	•
	RADIUS Accounting	•
	MAC Authentication	•
	Reboot Schedule	•
	Wireless Schedule	•
	Wireless Statistics	•
	Static IP/Dynamic IP	•
Advanced Features	Router Mode	•
Support Data Rates	802.11ax	8 Mbps to 1201 Mbps (MCS0-MCS11, NSS = 1 to 2 HE20/40/80)
	802.11ac	6.5 Mbps to 1083.3 Mbps (MCS0-MCS9, NSS = 1 to 2 VHT20/40/80)
	802.11n	6.5 Mbps to 300 Mbps (MCS0-MCS15, HT20/40)
	802.11g	6, 9, 12, 18, 24, 36, 48 ,54 Mbps
	802.11b	1, 2, 5.5, 11 Mbps
	802.11a	6, 9, 12, 18, 24, 36, 48 ,54 Mbps

Management	LED ON/OFF Control	•
	Management MAC Access Control	•
	Web-based Management	•
	SNMP	v1, v2c, v3
	SSH	•
	Restore & Backup	•
	Firmware update via Web	•
	NTP	•
	System Log	•
	Email Alerts	•
Physical & Environment	Power Supply	802.3af PoE
	Maximum Power Consumption	10W
	Reset	•
Others	Certifications	VCCI, JRF
	Dimensions (W x D x H)	43.5×47×69 mm
	Net Weight	143g
	Enclosure Material	Top cover: PC Bottom shell: aluminum alloy
	Environment	Operating Temperature: 0 °C–45 °C (32 °F–113 °F); Storage Temperature: -40 °C–70 °C (-40 °F–158 °F); Operating Humidity: 10%–90% non-condensing; Storage Humidity: 5%–90% non-condensing;

Antenna Radiation Patterns

2.4 GHz

XY Plane	XZ Plane	YZ Plane

5 GHz

XY Plane	XZ Plane	YZ Plane
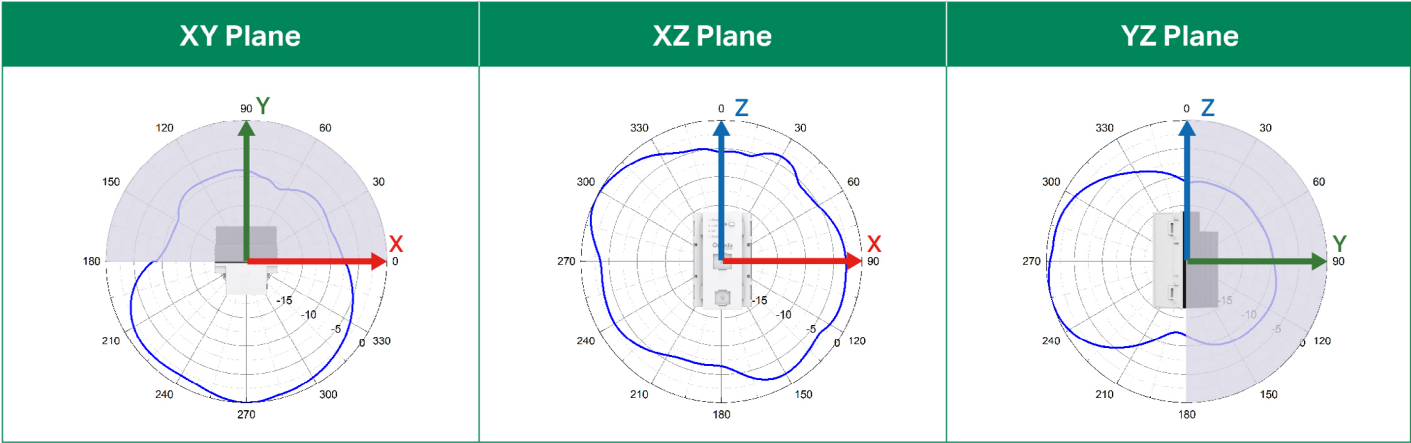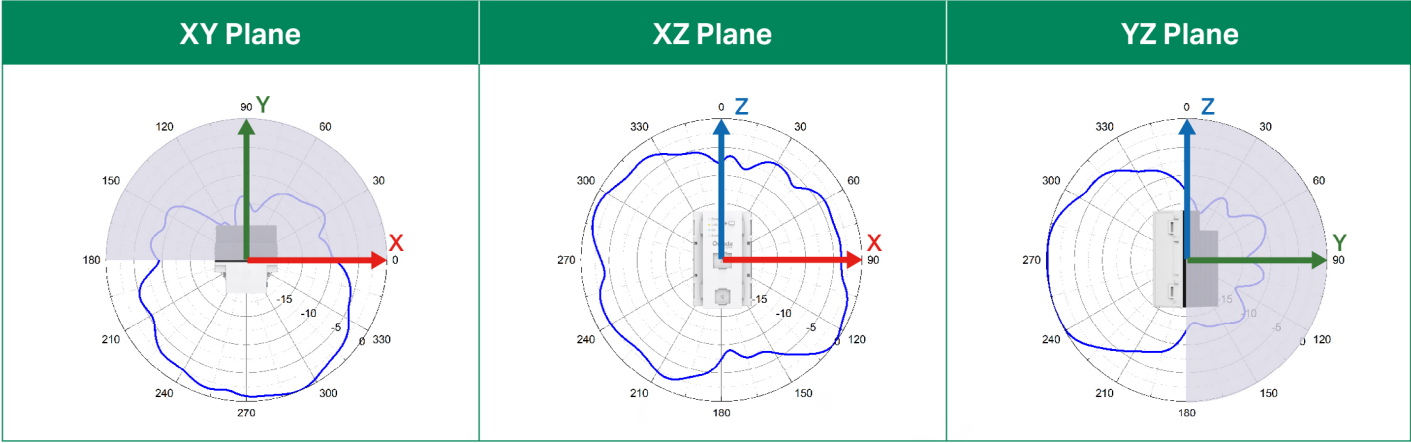
Disclaimers

* 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. They 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.

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

* Use of WiFi 6 (802.11ax) and its features, including OFDMA and 4K-QAM, require clients to support the corresponding features.

* Omada Mesh, Seamless Roaming, and Captive Portal require Omada SDN controllers. Go to https://www.tp-link.com/en/omada-mesh/product-list/ to find all the models supported by Omada mesh technology, and refer to the User Guides of Omada SDN controllers for configuration methods.

* Zero-Touch Provisioning and Auto Channel Selection and Power Adjustment require the use of Omada Cloud-Based Controller. Go to https://www.tp-link.com/en/omada-cloud-based-controller/product-list/ to confirm which models are compatible with Omada Cloud-Based Controller.

* 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.

* Actual network speed may be limited by the rate of the product's Ethernet WAN or LAN port, the rate supported by the network cable, Internet service provider factors and other environmental conditions.

* PoE budget calculations are based on laboratory testing. Actual PoE power budget is not guaranteed and will vary as a result of client limitations and environmental factors.