

# Omada EAP | Datasheet

## **EAP215-Bridge KIT**

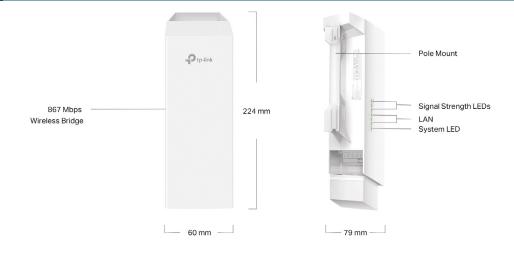
5GHz 867Mbps Long-range Indoor/Outdoor Access Point



## **Highlights**

- 802.11ac for up to 867 Mbps on the 5 GHz wireless data rate.
- Ideal for long-range wireless transmission up to 5 km.
- Auto-pairing and agile LEDs for efficient deployment.
- 3 × Gigabit Ethernet ports for more high-speed IP camera connections.
- Supports Omada SDN for remote and centralized management.
- IP65 weatherproof enclosure and 6kV lightning protection ensure all-weather suitability.
- Supports Passive PoE for flexible deployment (adapter included).

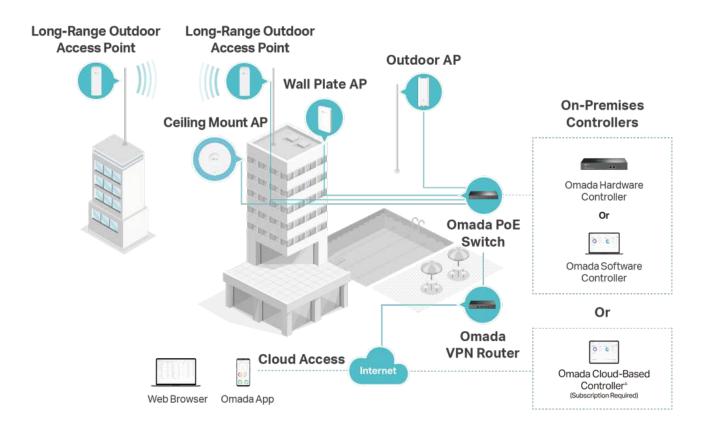
## **Product Pictures**





## **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.



# Specifications

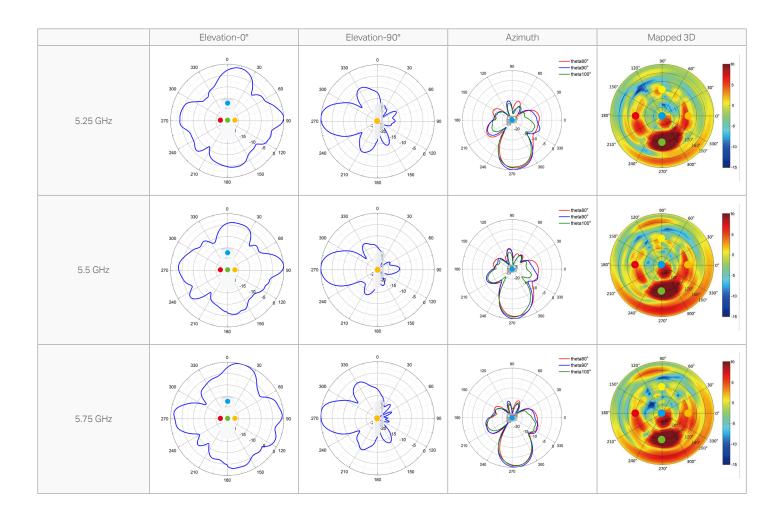
Name         SGHz 867Mbps Long-range Indoor/Outdoor Access Point           Ax Gigabit Ethernet Port           Wi-Fi Standards         IEEE 802.11a/n/ac           Maximum Data Rate         867 Mbps (5 GHz)           Wireless Client Capacity         8           Bluetooth         -           Antennas         CE:           \$23dBm (6 GHz, band 1/2, EIRP);           <30dBm (6 GHz, band 1/2, EIRP);         <30dBm (6 GHz, band 1/4)           *30dBm (6 GHz, band 1/4)           FCC: <22dBm (6 GHz, band 1/4)           *40dBm (5 GHz, band 1/4) <td colspan<="" th=""><th colspan="5">Outdoor AP</th></td>	<th colspan="5">Outdoor AP</th>	Outdoor AP				
LAN Interfaces   3x Gigabit Ethernet Port	Model		EAP215-Bridge			
Wi-Fi Standards   IEEE 802.11a/n/ac   Maximum Data Rate   867 Mbps (5 GHz)	Name		5GHz 867Mbps Long-range Indoor/Outdoor Access Point			
Maximum Data Rate   367 Mbps (5 GHz)		LAN Interfaces	3x Gigabit Ethernet Port			
Wireless Client Capacity   Butooth		Wi-Fi Standards	IEEE 802.11a/n/ac			
Bluetooth		Maximum Data Rate	867 Mbps (5 GHz)			
Antennas   Internal 2×2 Dual-polarized directional MIMO antenna   5 GHz: 11.0 dBi		Wireless Client Capacity	8			
Antennas   5 GHz: 11.0 dBi		Bluetooth	-			
S GHz 11,0 dBi   CE:			Internal 2×2 Dual-polarized directional MIMO antenna			
		Antennas	5 GHz: 11.0 dBi			
Transmit Power			CE:			
South   Sout	Main Design	Transmit Power	<23dBm (5 GHz, band 1/2, EIRP);			
Security   February   February	Waii i Booigi i		<30dBm (5 GHz band3, EIRP);			
Reception Sensitivity			FCC: <22dBm (5 GHz band1/4)			
Reception Sensitivity			5GHz:			
Reception Sensitivity  11ac VHT40 MCS0:-90.5dBm; 11ac VHT80 MCS9:-66.5dBm; 11ac VHT80 MCS0:-87.5dBm; 11ac VHT80 MCS8:-63dBm  Omada Software Controller  Omada Hardware Controller  Omada APP  Captive Portal Authentication  Access Control  Maximum number of MAC Filter  VIAN  Clients  VLAN  Rogue AP Detection  Wireless Encryption  VHT40 MCS0:-90.5dBm; 11ac VHT40 MCS9:-66.5dBm; 11ac VHT80 MCS8:-63dBm  V  Omada NCS8:-63dBm  V  Omada Hardware Controller  V  Omada APP  V  Captive Portal Authentication  V  Access Control  V  Maximum number of MAC Filter  VLAN  VIAN  V  Rogue AP Detection  V  Wireless Encryption  V		Reception Sensitivity	11ac VHT20 MCS0:-94dBm;			
11ac VHT40 MCS9:-66.5dBm;   11ac VHT80 MCS0:-87.5dBm;   11ac VHT80 MCS8:-63dBm    Omada Software Controller			11ac VHT20 MCS8:-71dBm;			
11ac VHT80 MCS0:-87.5dBm;   11ac VHT80 MCS8:-63dBm			11ac VHT40 MCS0:-90.5dBm;			
11ac VHT80 MCS8:-63dBm			11ac VHT40 MCS9:-66.5dBm;			
Centralized Management  Omada Software Controller  Omada Hardware Controller  Omada APP  Captive Portal Authentication  Access Control  Maximum number of MAC Filter  VIAN  Rogue AP Detection  Wireless Encryption  V  Maximum Number of MAC Filter  VIAN  Rogue AP Detection  V  Wireless Encryption  V  Mireless Encryption			11ac VHT80 MCS0:-87.5dBm;			
Centralized Management Omada Hardware Controller Omada APP  Captive Portal Authentication Access Control  Maximum number of MAC Filter 4000  Wireless Isolation between Clients VLAN Rogue AP Detection Wireless Encryption  V Wireless Encryption  V Wireless Encryption			11ac VHT80 MCS8:-63dBm			
Omada APP  Captive Portal Authentication  Access Control  Maximum number of MAC Filter  Vireless Isolation between  Clients  VLAN  Rogue AP Detection  Wireless Encryption  V  Wireless Encryption  V  V  V  V  V  V  V  V  V  V  V  V  V	Centralized Management	Omada Software Controller	$\bigvee$			
Security  Captive Portal Authentication   Access Control   Maximum number of MAC Filter   4000  Wireless Isolation between  Clients  VLAN   Rogue AP Detection  Wireless Encryption   V  Wireless Encryption   V		Omada Hardware Controller	$\bigvee$			
Security  Access Control  Maximum number of MAC Filter  4000  Wireless Isolation between  Clients  VLAN  Rogue AP Detection  Wireless Encryption  V  Wireless Encryption		Omada APP	$\bigvee$			
Security  Maximum number of MAC Filter 4000  Wireless Isolation between Clients  VLAN  Rogue AP Detection Wireless Encryption  V  Wireless Encryption	Security	Captive Portal Authentication	$\bigvee$			
Security  Wireless Isolation between Clients  VLAN  Rogue AP Detection Wireless Encryption  V  Wireless Encryption		Access Control	$\bigvee$			
Security         Clients         ⁻           VLAN         ✓           Rogue AP Detection         ✓           Wireless Encryption         ✓		Maximum number of MAC Filter	4000			
VLAN   Rogue AP Detection   Wireless Encryption   ✓		Wireless Isolation between				
Rogue AP Detection   √  Wireless Encryption   √		Clients	-			
Wireless Encryption  √		VLAN	$\bigvee$			
		Rogue AP Detection	√			
802.1X Support -		Wireless Encryption	√			
		802.1X Support	-			

Outdoor AP				
Model		EAP215-Bridge		
	Multiple SSIDs	8		
	Channel	US: 5G: 36,40,44,48,149,153,157,161,165 EU: 5G: 36,40,44,48,52,56,60,64,100,104,108,112,116,120,124,128,132,136,140		
	Enable/Disable Wireless Radio	56. 50,40,44,46,52,50,00,04,100,104,108,112,110,120,124,126,132,130,140  √		
	Enable/Disable SSID Broadcast	√		
	Guest Network	√		
	Automatic Channel Assignment	_		
	Transmit Power Control	_		
	QoS (WMM)	√		
	Seamless Roaming	_		
	Mesh	-		
Wireless Function		<b>v</b>		
	Beamforming			
	MU-MIMO OFDMA	5G 2x2 MU-MIMO DL		
	-	-   ,		
	Rate Limit	√ 		
	Load Balance	√ 		
	Airtime Fairness	√		
	Band Steering	-  -		
	RADIUS Accounting	√ 		
	MAC Authentication	√ 		
	Reboot Schedule	√		
	Wireless Schedule	√		
	Wireless Statistics	√		
	Static IP/Dynamic IP	√		
	802.11ac	6.5 Mbps to 867 Mbps (MCS0-MCS9, NSS = 1 to 2 VHT20/40/80)		
Support Data Rates	802.11n	6.5 Mbps to 300 Mbps (MCS0-MCS15, HT20/40)		
	802.11a	6, 9, 12, 18, 24, 36, 48, 54 Mbps		
	LED ON/OFF Control	√		
	Management MAC Access	$\sqrt{}$		
	Control			
	Web-based Management SNMP	√		
		√ 		
Management	SSH	√ 		
	Restore & Backup	√ ,		
	Firmware update via Web	√		
	NTP	√ 		
	System Log	√		
	Email Alerts	101/00/04/0		
	Power Supply	12V DC / 24V Passive PoE		
Physical & Environment	Maximum Power Consumption	11.5W		
	Reset			
	Mounting	Pole mounting (Accessories included)		



Outdoor AP					
Model		EAP215-Bridge			
Others	Certifications	CE, FCC, RoHS			
	Dimensions (W x D x H)	224 × 79 × 60 mm			
	Net Weight	330.9g			
	Enclosure Material / Rack Material	Enclosure: ASA-HB			
		Pole Mounting Straps: Nylon 66			
	Lightning Protection	Air discharge: ±8kV			
		Contact discharge: ±4kV			
		Common mode 10/700: ±6kV			
	Environment	Operating Temperature: -40 °C-70 °C (-40 °F-158 °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**



### Disclaimers

#### Wireless Speed and Range Disclaimer

Maximum wireless transmission rates are the physical rates derived from IEEE Standard 802.11 specifications. Range and coverage specifications were defined according to test results under normal usage conditions. Actual wireless transmission rate and wireless coverageare 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.

All products are tested in real outdoor environments. Actual range and throughput depend on the transmission power and environmental factors such as wireless interference, obstacles, weather, etc.

#### Lightning and Electro-Static Discharge Protection Disclaimer

Protection against lightning and electro-static discharge may be achieved through proper product setup, grounding and cable shielding. Refer to the instruction manual and consult an IT professional to assist with setting up this product.

#### Wireless Client Capacity Disclaimer

Wireless client capacity specifications were defined according to test results under normal usage conditions. Actual wireless client capacity is 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.

#### **Ethernet Port Limitation Disclaimer**

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 Disclaimer

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.

#### **MU-MIMO** Disclaimer

MU-MIMO capability requires client devices that also support MU-MIMO.

#### **Seamless Roaming Disclaimer**

Seamless roaming requires both the access point and client devices to support 802.11k and 802.11v protocols.

Some models featured in this guide may be unavailable in your country or region. Visit TP-Link website for local sales information: https://www.tp-link.com/. Specifications are subject to change without notice.

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