Omada EAP | Datasheet

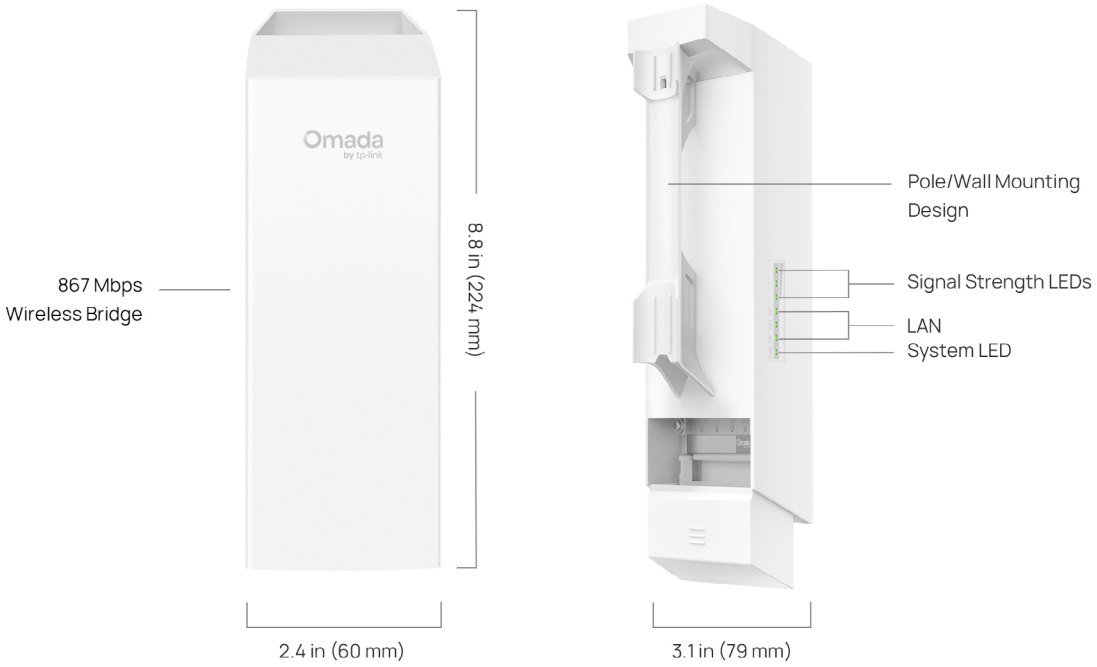
EAP211-Bridge KIT

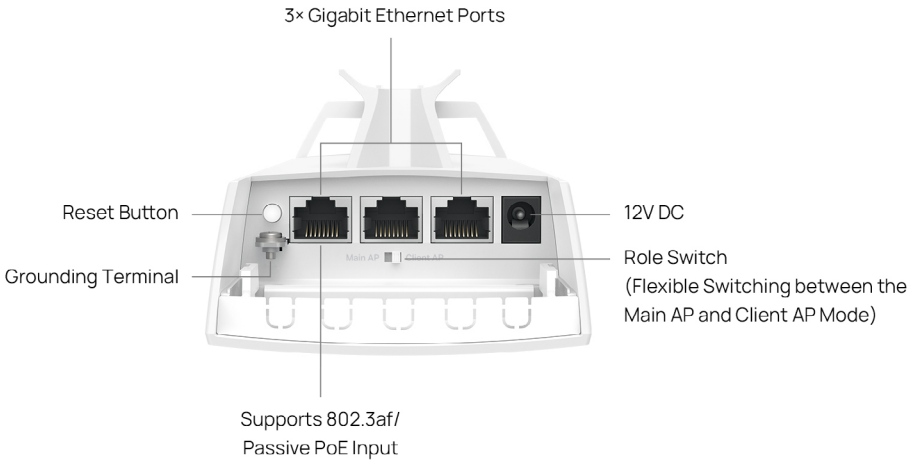
5GHz 867Mbps Indoor/Outdoor Wireless Bridge

Highlights

- Up to 0.62 mi (1 km) Transmission Distance: Ideal for long-range wireless transmission.*
- Plug-and-Play Setup: Supports auto-pairing and LED signal indicator for efficient deployment and role switch for flexible AP modes switching.
- Flexible Power Supply: Supports 802.3af PoE, 24V Passive PoE, and 12V DC (compatible with TP-Link solar power supply system) for versatile deployment.
- 3× Gigabit Ethernet Ports: Connects more cameras and devices without an extra switch.*
- Efficient Management: Supports Standalone mode or Omada SDN mode for remote centralized management via Web UI or App.*
- Ideal for Outdoor Scenarios: IP65 weatherproof enclosure and 6kV lightning protection ensure all-weather suitability, with a reliable operating range of -40 °C to +70 °C.*

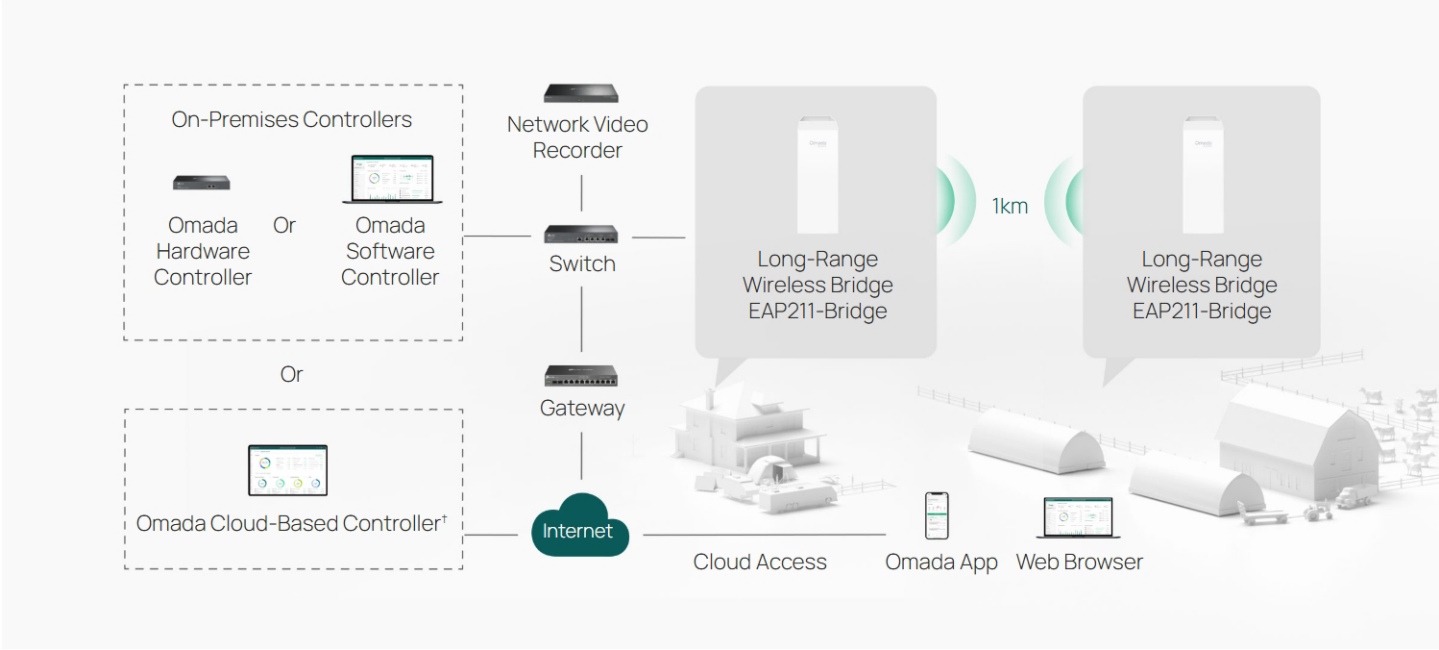
Product Pictures





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.



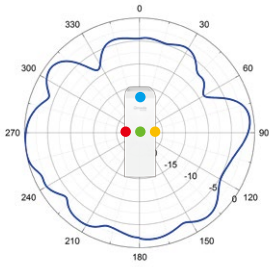
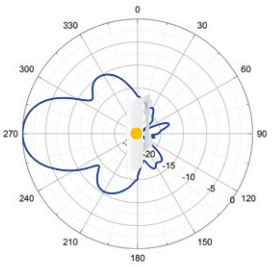
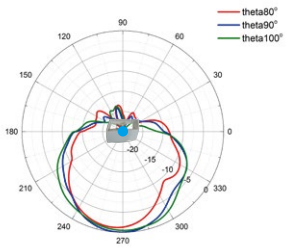
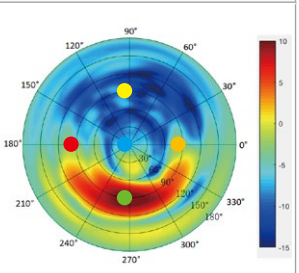
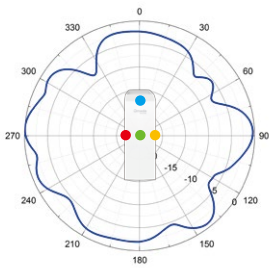
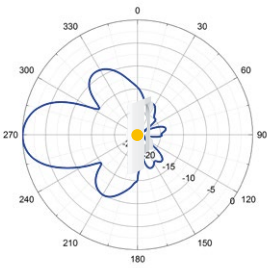
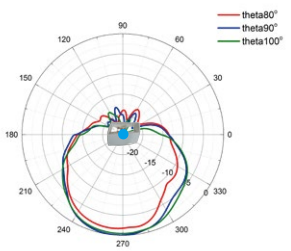
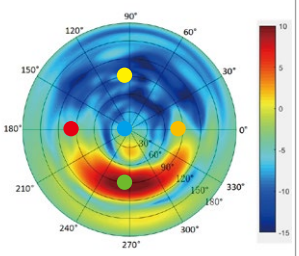
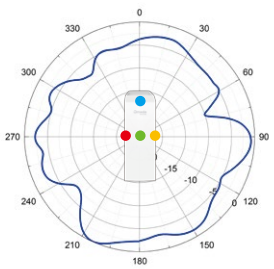
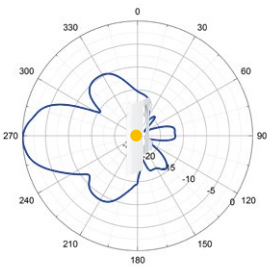
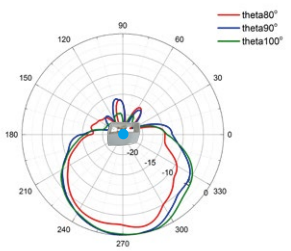
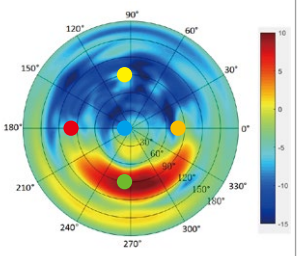
Specifications

Model		EAP211-Bridge
Name		5GHz 867Mbps Indoor/Outdoor Wireless Bridge
Main Design	LAN Interfaces	3x Gigabit Ethernet Port
	DIP Switch	Role Switch
	Wi-Fi Standards	IEEE 802.11a/n/ac
	Maximum Data Rate	867 Mbps (5 GHz)
	Wireless Client Capacity	8
	Bluetooth	-
	Antennas	Internal 2×2 Dual-polarized directional MIMO antenna 5 GHz: 10.0 dBi Horizontal Beamwidth: 60°
	Transmit Power	CE: <23dBm (5 GHz, band 1/2, EIRP) <30dBm (5 GHz band3, EIRP) FCC: <23dBm (5 GHz band1) <25dBm (5 GHz band4)
	Reception Sensitivity	5GHz: 11ac VHT20 MCS0:-94dBm; 11ac VHT20 MCS8:-71dBm; 11ac VHT40 MCS0:-90.5dBm; 11ac VHT40 MCS9:-66.5dBm; 11ac VHT80 MCS0:-87.5dBm; 11ac VHT80 MCS8:-63dBm
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	√
	802.1X Support	-

Model		EAP211-Bridge
Wireless Function	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	√
	Enable/Disable SSID Broadcast	√
	Guest Network	√
	Automatic Channel Assignment	-
	Transmit Power Control	Adjust transmit Power on dBm
	QoS (WMM)	-
	Seamless Roaming	-
	Mesh	√
	Beamforming	√
	MU-MIMO	5G 2×2 MU-MIMO DL
	MIMO	2×2 5G MIMO
	OFDMA	-
	Rate Limit	√
	Load Balance	-
	Airtime Fairness	-
	Band Steering	-
	RADIUS Accounting	√
	MAC Authentication	-
	Reboot Schedule	√
	Wireless Schedule	√
	Wireless Statistics	√
	Static IP/Dynamic IP	√
Support Data Rates	802.11ac	6.5 Mbps to 867 Mbps (MCS0-MCS9, NSS = 1 to 2 VHT20/40/80)
	802.11n	6.5 Mbps to 300 Mbps (MCS0-MCS15, HT20/40)
	802.11a	6, 9, 12, 18, 24, 36, 48, 54 Mbps
Management	LED ON/OFF Control	√
	Management MAC Access Control	-
	Web-based Management	√
	SNMP	√
	SSH	√
	Restore & Backup	√
	Firmware update via Web	√
	NTP	√
	System Log	√
	Email Alerts	√
Physical & Environment	Power Supply	12V DC / 802.3af PoE / 24V Passive PoE
	Maximum Power Consumption	11.5W
	Reset	√
	Mounting	Pole mounting (Accessories included)

Model		EAP211-Bridge
Others	Certifications	CE, FCC, RoHS
	Dimensions (W x D x H)	224 × 79 × 60 mm
	Net Weight	280.9g
	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

	Elevation-0°	Elevation-90°	Azimuth	Mapped 3D
5.25 GHz				
5.5 GHz				
5.75 GHz				

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 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.

* The advertised coverage is calculated based on laboratory testing. Actual coverage is not guaranteed and will vary as a result of the performance of the equipped antennas, client limitations, and environmental factors.

* 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.

* Non-Omada devices connected to the wired LAN ports will not be recognized by the Omada controllers, preventing users from viewing their connection status. To address this issue, connect those non-Omada devices to an Omada switch that links to the bridge's wired LAN ports.

* 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.

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