Omada EAP | Datasheet

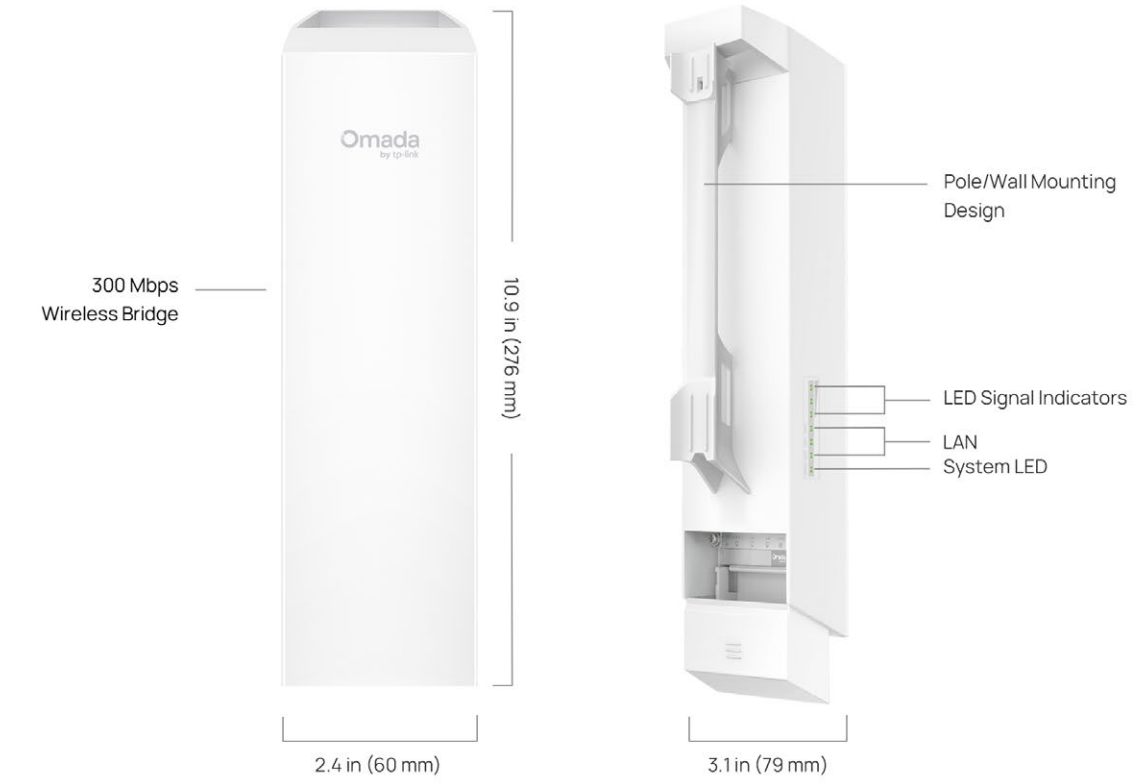
EAP115-Bridge KIT

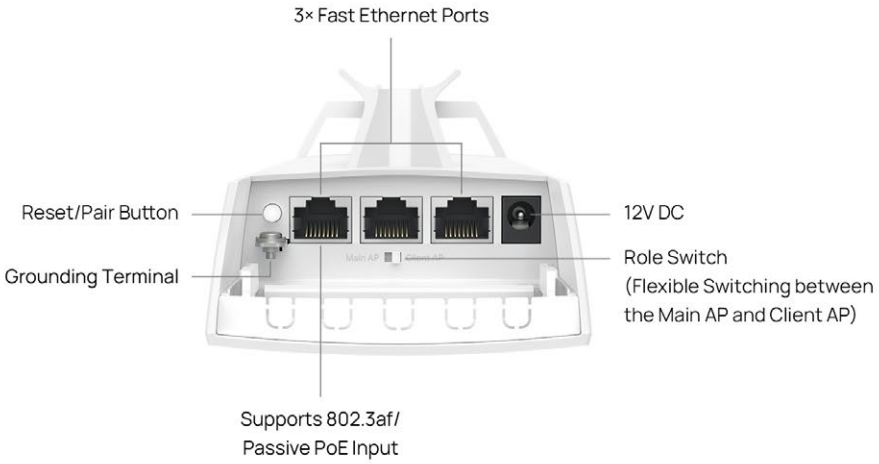
5GHz 300Mbps Long-range Indoor/Outdoor Wireless Bridge

Highlights

- Up to 3.1 mi (5 km) Transmission Distance
- Equipped with Omada Smart Bridging: Our unique design for the most effortless and easy bridge setup ever.
- Plug-and-Play Preconfigured Kit: Preconfigured for instant auto-pairing, the bridges deliver instant connectivity right out of the box. Simply power on and go. Ideal for quick deployments.
- Unique Design for Instant Multi-Bridge Auto-Pairing: Effortlessly connect multiple bridges with PtMP Auto-Pairing. Just flip the Role Switch and press the pair button. No login or setup needed.*
- App-Guided Alignment: Visualized App-Guided Alignment for long-distance setups and Instant Speed Testing for installation verification.
- Flexible Power Supply: 802.3af PoE, 24V Passive PoE, and 12V DC (compatible with TP-Link solar power supply systems).
- 3× Fast Ethernet Ports: Connects more cameras and devices without an extra switch.
- Built for Tough Outdoor Conditions: Features an IP65 weatherproof enclosure and operating range of -40°C to +70°C .*
- Remote Monitoring & Management: Choose Standalone mode or Omada SDN mode for remote centralized management via Web UI or app.

Product Pictures

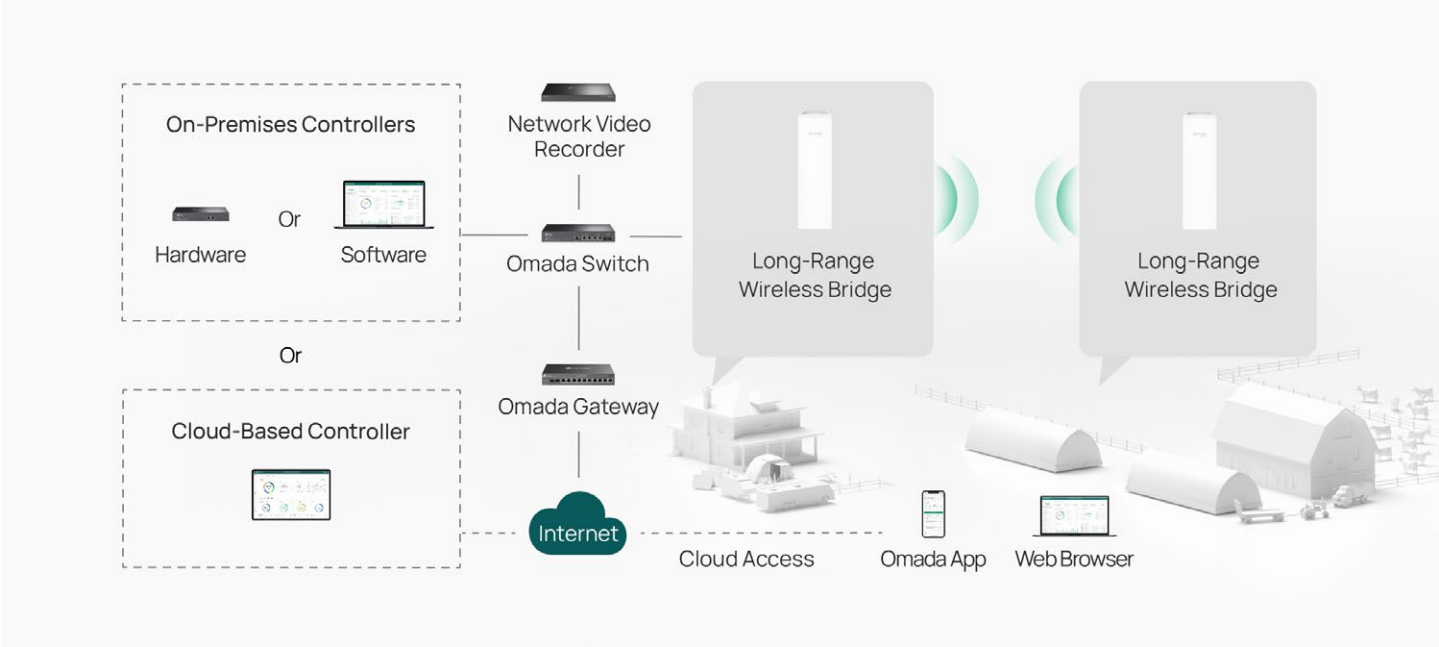




* Pairing with the Pair button requires firmware upgrade.

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.



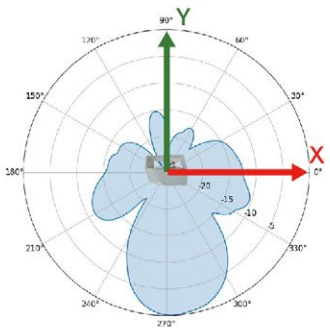
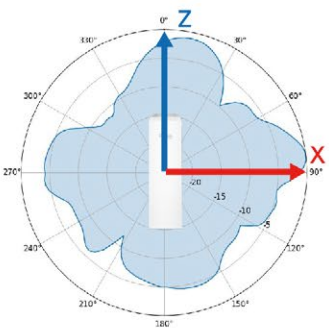
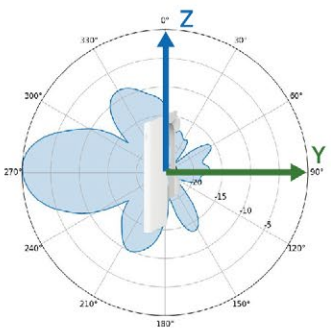
Specifications

Model		EAP115-Bridge
Name		5GHz 300Mbps Long-range Indoor/Outdoor Wireless Bridge
Main Design	LAN Interfaces	3x 10/100 Mbps Ethernet Ports
	DIP Switch	Role Switch
	Wi-Fi Standards	IEEE 802.11a/n
	Maximum Data Rate	300 Mbps (5 GHz)
	Wireless Client Capacity	8
	Bluetooth	-
	Antennas	Internal 2×2 Dual-polarized directional MIMO antenna 5 GHz: 14.0 dBi Horizontal Beamwidth: 35°
	Transmit Power	FCC: <22dBm (5 GHz band1/4)
	Reception Sensitivity	5GHz: 11n HT20 MCS0:-94dBm; 11n HT20 MCS7:-75dBm; 11n HT40 MCS0:-91dBm; 11n HT40 MCS7:-72dBm
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	-
Wireless Functions	Multiple SSIDs	6
	Channel	US: 5G: 36,40,44,48,149,153,157,161,165
	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	-
	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	√

Bridge Functions	SSID DHCP Server	√
	Channel Optimization	√
	Default SSID Isolation	√
	Antenna Alignment	√
	Speed Test	√
	Auto Pair	√
	Configuration Synchronization	√
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
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	6.0W
	Reset	√
	Mounting	Pole and wall mounting (Pole accessories included)
Others	Certifications	CE, FCC, RoHS
	Dimensions (W x D x H)	3.1 × 2.4 ×10.9 in (79 × 60 × 276 mm)
	Net Weight	350g
	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

5 GHz

XY Plane	XZ Plane	YZ Plane
		

Disclaimers

* Pairing with the Pair button requires firmware upgrade.

* 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.

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.