Omada by tp-link

Datasheet



Omada 2.4 GHz 300 Mbps Indoor/Outdoor Wireless Bridge

Model: EAP100-Bridge KIT

INFRONT TECHNOLOGIES

Supplied by INFRONT TECHNOLOGIES

Phone 1300 736 970

sales@infronttech.com.au · infronttech.com.au

For more information call or email — Australia-wide sales, technical support and warranty service.

Product Overview

Omada 2.4 GHz 300 Mbps Indoor/Outdoor Wireless Bridge EAP100 Bridge KIT is a Wi-Fi bridge kit engineered for transmission up to 0.31 mile (500 m). It delivers reliable point-to-point connectivity in remote outdoor environments—ideal for farms, additional offices, parking lots, and other locations where extending network access and monitoring is critical.

- Up to 0.31 mi (500 m) Wireless Transmission: With 8 dBi high-gain directional antennas.*
- Plug-and-Play with Preconfigured Kit: Preconfigured for instant PtP auto-pairing, the bridges deliver instant connectivity right out of the box.
- App-Guided Alignment: Visualized app-guided alignment for long-distance setups and instant speed testing for installation verification.
- Simple PoE Deployment and Power Supply: 1× 10/100 Mbps PoE Port supports both 802.3af PoE and Passive PoE for simplified wiring and lower deployment costs.
- Designed for Outdoor Durability & Reliability: IP65 weatherproof enclosure, 6 kV lightning protection and operating range of -40 °C to +70 °C (-40°F to +158 °F).**
- Remote Monitoring & Management: Standalone mode or Omada SDN mode for remote centralized management via Web UI or App.†

INFRONT TECHNOLOGIES

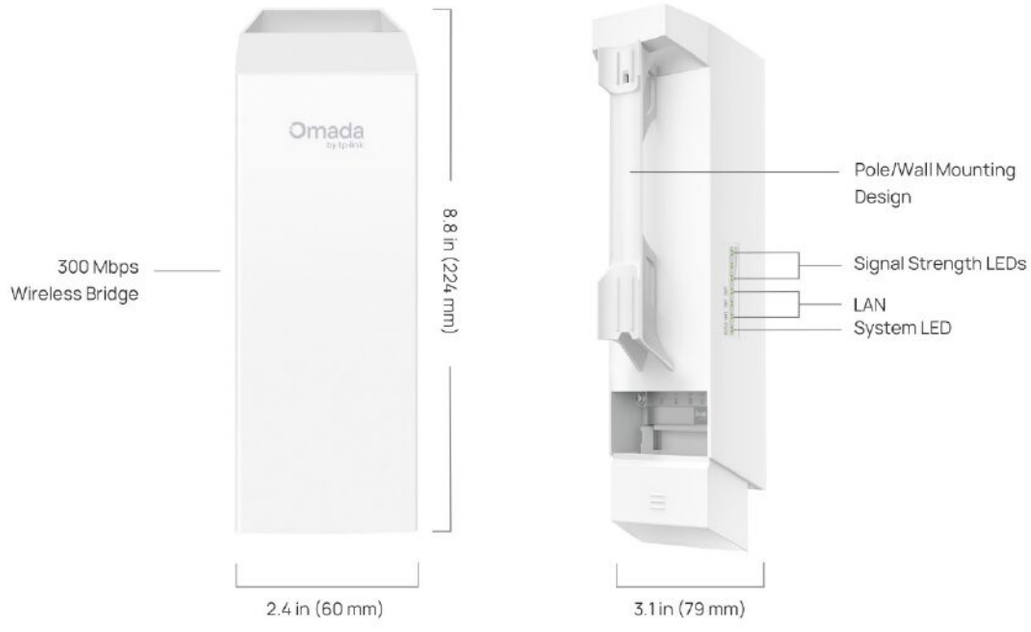
Supplied by INFRONT TECHNOLOGIES

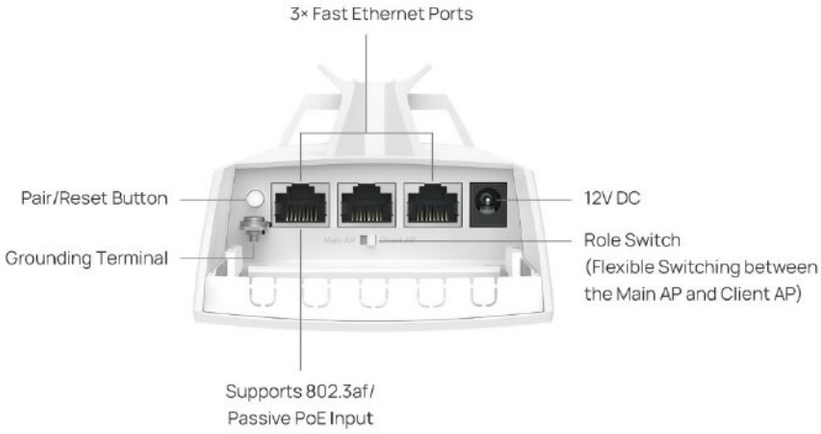
Phone 1300 736 970

sales@infronttech.com.au · infronttech.com.au

For more information call or email — Australia-wide sales, technical support and warranty service.

Product Appearance





INFRONT TECHNOLOGIES

Supplied by INFRONT TECHNOLOGIES

Phone 1300 736 970

sales@infronttech.com.au · infronttech.com.au

For more information call or email — Australia-wide sales, technical support and warranty service.

Feature Descriptions

Up to 0.31 mi (500 m) Wi-Fi Connectivity

It delivers reliable Wi-Fi with low latency and strong signal integrity, equipped with 8 dBi high-gain directional antennas for uninterrupted wireless transmission, and it is ideal for connecting remote sites in rural and hard-to-wire environments.

Effortless Plug-and-Play Setup

Preconfigured for instant PtP auto-pairing, the bridges deliver instant connectivity right out of the box. Simply power on and go, ideal for quick and easy deployments.

App-Guided Alignment for Optimal Performance

Simply bridge alignment with real-time signal strength visualization on the Omada app. Perfect for installations where bridges are far apart, this feature ensures optimal alignment and connectivity. The Omada app also allows users to easily verify installations, test transmission speeds, and troubleshoot connections for optimal performance.

Simple Deployment with PoE Support

1× 10/100 Mbps PoE Port delivers both power and data through a single cable, cutting deployment costs and outdoor wiring complexity. It supports both 802.3af PoE and Passive PoE power supply.

Outdoor-Ready Design for Extreme Conditions

EAP100-Bridge KIT supports IP65 weatherproof and 6 kV lightning protection safeguard your network in harsh outdoor environments. Additionally, an extended temperature tolerance of -40 °C to 70 °C (-40 °F to +158 °F) makes it ideal for extremely hot and cold environments.

Remote Monitoring & Management

Use the Omada app for easy on-site setup-no internet required. For additional flexibility, switch to Omada SDN, enabling cloud management via the Omada app or web portal for seamless control, and monitor from anywhere.

INFRONT TECHNOLOGIES

Supplied by INFRONT TECHNOLOGIES

Phone 1300 736 970

sales@infronttech.com.au · infronttech.com.au

For more information call or email — Australia-wide sales, technical support and warranty service.

Specifications

Hardware Specifications

Item	Description	
Wi-Fi Standards	2.4 GHz: IEEE 802.11b/g/n	
Transmission Distance	500m	
802.11n	Spatial Streams	• 2.4 GHz: 2×2 MIMO with 2 spatial streams
	Frequency Bands	2.400 to 2.4835 GHz ISM Note: Country-Specific Restriction Apply
	Bandwidth	20 MHz/40 MHz
	Wireless Data Rate	• 2.4 GHz: 6.5Mbps to 300 Mbps (MCS0-MCS7, NSS=1 to 2, 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
Antenna	Wi-Fi	Internal 2×2 dual-polarized directional MIMO antenna 2.4 GHz: 8 dBi Horizontal: 70°, Vertical: 70° Note: The gains above are the single-antenna peak gains.
	IoT	• None
Interfaces	• 3x 10/100 Mbps Ethernet Port	
IoT	None	
Memory	• Flash: 64Mbit • DRAM: 512Mbit	
Button	1 × System Mode Selection Button: Slide the switch to switch the device roles (Main AP or Client AP) 1 × Pair/Reset button: Press the button for longer than 5 seconds to make the device restore to factory settings; Press this button on the Main AP and the Client AP to establish a network connection.	

INFRONT TECHNOLOGIES

Supplied by INFRONT TECHNOLOGIES

Phone 1300 736 970

sales@infronttech.com.au · infronttech.com.au

For more information call or email — Australia-wide sales, technical support and warranty service.

Item	Description	
Indicator	1 system LED: • On: Working normally/Initializing • Off: Working abnormally/Power off/LED is turned off. • Flash: • Flashes twice: Initialization is complete. • Flashes quickly: The AP is resetting, or the Omada Controller is locating the device • Flashes once per second: The AP is upgrading. • On with periodic off: The AP is in the isolated state. 3 × LAN LEDs On: The port is connected but not active. Flash: The port is connected and active. Off: The port is not connected. 3 × Singal LEDs • On: • Working as Main AP: All LEDs remain solid during normal operation. • Working as Client AP: More lit LEDs indicates better wireless signal strength. • Blinking: Pairing • Off: No signal	
Reliability	MTBF (Mean Time between Failure)	EU:360000h@25℃ 200000h@40℃ US:360000h@25℃ 200000h@40℃
Power Supply	Input	12V/0.5A DC (Supported Voltage Range: 12V±10%) 802.3af PoE 24V Passive PoE
	Output	/
Power Consumption	• Max with AC or DC: 3.9W • Max with PoE: 4.8W • Standby with AC or DC: 1.4W • Standby with PoE: 1.6W	
Surge/Lightning Protection	Ethernet Ports: ±6 kV	
ESD/EMP Protection	• Air discharge: ±15 kV • Contact discharge: ±8 kV Note: ESD/EMP Protection means Electrostatic Discharge/Electromagnetic Pulse Protection independently.	
Tx Power	Maximum transmit power	CE (EIRP) • 2.4 GHz: 20 dBm FCC (Conducted Power) • 2.4 GHz: 22 dBm Note: MIMO combined power, excluding antenna gains. The actual transmit power depends on local laws and regulations.

INFRONT TECHNOLOGIES
Supplied by INFRONT TECHNOLOGIES
Phone 1300 736 970
sales@infronttech.com.au · infronttech.com.au
For more information call or email — Australia-wide sales, technical support and warranty service.

Item		Description
Environment	Minimum transmit power	CE (EIRP) • 2.4 GHz: 8 dBm FCC (Conducted Power) • 2.4 GHz: 4 dBm Note: MIMO combined power, excluding antenna gains. The actual transmit power depends on local laws and regulations.
	Adjustable power increment	1 dBm
	Temperature	• Operating: -40℃ to +70℃ (-40℉ to +158℉) • Storage: -40℃ to +70℃ (-40℉ to +158℉)
	Humidity	• Operating: 10% to 90% (non-condensing) • Storage: 5% to 90% (non-condensing)
	Altitude	• Storage: up to + 2000 m (6561 feet) • Operating: up to + 2000 m (6561 feet)
	Windproof	Not Support
	Weatherproof Enclosure	IP65 for Pole Mount
Unit	Dimensions (W×D×H)	• Main Unit: 79 × 60.3 × 224 mm (3.1 × 2.4 × 8.8 in.) • Shipping Unit: 280 × 245 × 106 mm (11 × 9.6 × 4.2 in.)
	Weight	• Main Unit: 0.27 kg (0.6 lb) • Shipping Unit: 1.5 kg (3.3 lb)
	Mounting	• Pole Mount (Kits included)

INFRONT TECHNOLOGIES
Supplied by INFRONT TECHNOLOGIES
Phone 1300 736 970
sales@infronttech.com.au · infronttech.com.au
For more information call or email — Australia-wide sales, technical support and warranty service.

Software Specifications

Item	Description	
Security and Authentication	Maximum number of associated STAs	8
	Guest Network	Yes
	ACS (Automatic Channel Selection)	Yes
	Airtime Fairness	No
	TDMA	No
	Speed Test	Yes
	PtP	Yes
	PtMP	3
	Channel Optimization	Yes
	Antenna Alignment	Yes
	802.11 Rate Control	No
	Rogue AP Detection	Yes
	WLAN Optimization	No
	Lock to AP	No
	Rate Limit	• SSID Rate Limit • Client Rate Limit
	Load Balance	No
	MLO	No
	Multicast/Broadcast Management	• Multicast/Broadcast Rate Limit
	ACL	
	• None • WPA/WPA2 • WPA/WPA2	
	Radius Accounting	
	EAP Types	• EAP-TLS • EAP-TTLS • EAP-PEAP • EAP-CHAP • EAP-SIM • EAP-AKA • EAP-GTC • EAP-FAST • EAP-PEAP • EAP-MD5 • EAP-MSCHAPv2

INFRONT TECHNOLOGIES

Supplied by INFRONT TECHNOLOGIES

Phone 1300 736 970

sales@infronttech.com.au · infronttech.com.au

For more information call or email — Australia-wide sales, technical support and warranty service.

Item	Description	
Management methods		• PEAPv0 • PEAPv1
	Omada Controller	• Omada Controller V5.15.24 and above • Omada Essential V5.15.24 and above
	App	Omada App V4.25 and above
	Standalone Management	Yes
	Standalone Mesh	No
	SSH	Yes
	SNMP	v1, v2c, v3
Operating Modes	AP	Yes
	Repeater	No
	Mesh	No
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 • Management VLAN
	Static IP / DHCP Client	Yes
	IPv4	Yes
	LLDP (Link Layer Discovery Protocol)	Yes
	mDNS	Yes
	Tools	• Ping / Traceroute • Packet Capture • Terminal

INFRONT TECHNOLOGIES

Supplied by INFRONT TECHNOLOGIES

Phone 1300 736 970

sales@infronttech.com.au · infronttech.com.au

For more information call or email — Australia-wide sales, technical support and warranty service.

Standards Compliance and Certifications

Item	Category	Description
Standards Compliance	IEEE Standards	• IEEE 802.11n • IEEE 802.1q • IEEE 802.3af • IEEE 802.3x
	Radio Standards	• ETSI EN 300 328 • RSS-247, RSS-Gen • FCC Part 15C • EN 62311 EN62232
	EMC Standards	• EN 55032 • EN 55035 • EN 301489-1 • EN 301489-17 • FCC Part 15B, ICES-003
	Safety Standards	• EN IEC 62368-1
	Security Standards	• WPA-Personal/Enterprise • WPA2-Personal/Enterprise
	RoHS	• Directive 2011/65/EU, Directive (EU) 2015/863 • EN IEC 63000: 2018
	Others	/
Certifications	• FCC/CE/ISED/MIC/VCCI	

INFRONT TECHNOLOGIES

Supplied by INFRONT TECHNOLOGIES

Phone 1300 736 970

sales@infronttech.com.au · infronttech.com.au

For more information call or email — Australia-wide sales, technical support and warranty service.

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	10/19	-96
		MCS7	10/16	-76
	802.11n, HT40	MCS0	10/17	-93
		MCS7	10/16	-73

INFRONT TECHNOLOGIES

Supplied by INFRONT TECHNOLOGIES

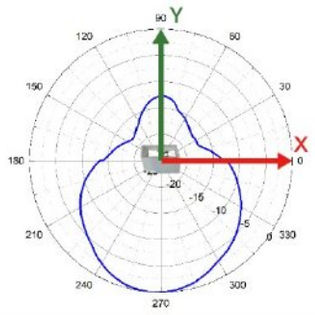
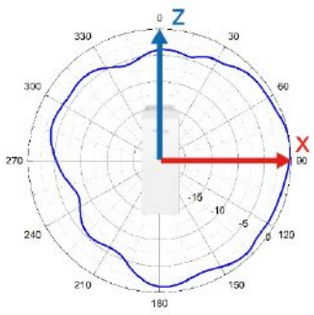
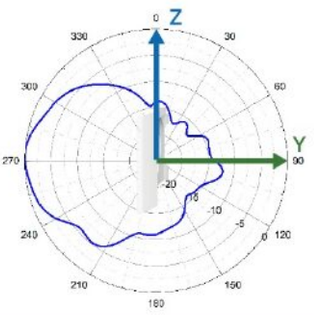
Phone 1300 736 970

sales@infronttech.com.au · infronttech.com.au

For more information call or email — Australia-wide sales, technical support and warranty service.

Antenna Radiation Patterns

2.4 GHz

XY Plane	XZ Plane	YZ Plane
		

INFRONT TECHNOLOGIES

Supplied by INFRONT TECHNOLOGIES

Phone 1300 736 970

sales@infronttech.com.au · infronttech.com.au

For more information call or email — Australia-wide sales, technical support and warranty service.

Package Contents

Item	Quantity
EAP100-Bridge	2
Passive PoE Adapter	2
Power Cord	2
Mounting Kit	2
Installation Guide	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/

INFRONT TECHNOLOGIES
Supplied by INFRONT TECHNOLOGIES
Phone 1300 736 970
sales@infronttech.com.au · infronttech.com.au
For more information call or email — Australia-wide sales, technical support and warranty service.

Revision History

Version	Date	Description
V1.0	2026-10-16	Initial release.

Note: 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.

†These functions 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.

© 2026 TP-Link

INFRONT TECHNOLOGIES

Supplied by INFRONT TECHNOLOGIES

Phone 1300 736 970

sales@infronttech.com.au · infronttech.com.au

For more information call or email — Australia-wide sales, technical support and warranty service.