

# Quick Start Guide

## IXWB-450

### Indoor/Outdoor Wireless Digital Bridge/CPE

Please read carefully the instruction manual before use. Depending on the model, the image and the actual look of the product may vary.

Rev.2.0

## Overview

This product is a 5G wireless bridge and the maximum transmission distance is 2KM at optimal environment conditions. Compare to wired equipment, it gives you cost-saving effect and supports power supply through PoE which enables simpler and faster installation.

## Package



IXWB-450



LAN cable



Metal tie band

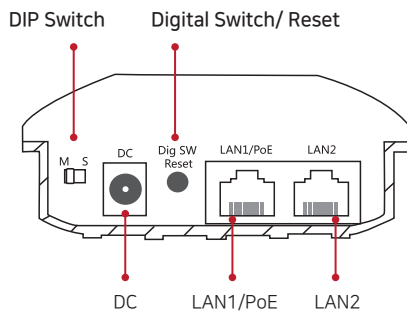


Quick Start Guide

## Features

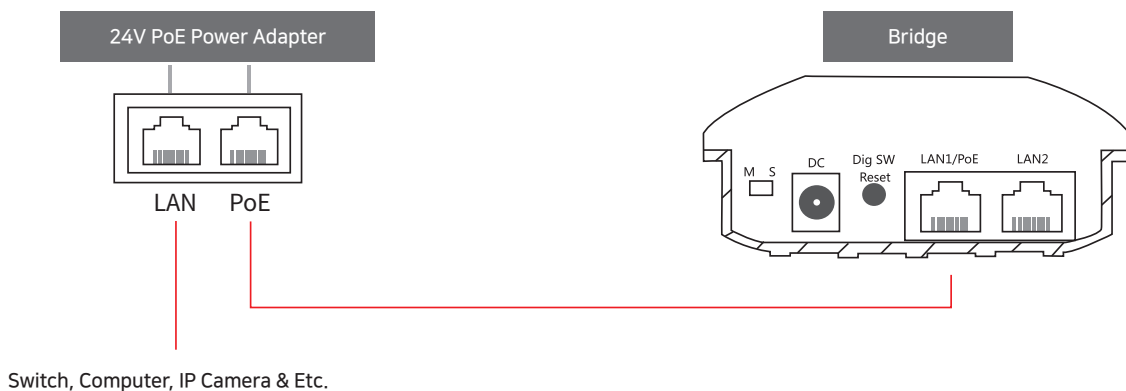
- Up to 2km Wireless Data Transmission
- 1T1R SISO Support
- 5Ghz Frequency Band
- Industrial Antenna Mounted
- Suitable for Long-Distance Transmission
- IP65
- Plug and Play, Various Configurations Support

## Hardware Overview





<b>DIP Switch</b>	To adjust the transformation between MASTER and SLAVE mode of the wireless bridge.
<b>DC</b>	Power interface, 12V 1A DC power interface.
<b>Digital Switch/ Reset</b>	Both digital switch and reset button, short press the button when electrifying, the numeric value of the digital tube will be added one and press 15 seconds, the device will be restored to the factory setting.
<b>LAN1/PoE</b>	This is a data transmission port, and it is also a power port. When the device works in the bridge mode, the interface acts as a LAN port function. When the device works in the route mode, the interface acts as a WAN port function. This interface is used to connect the PoE interface to the PoE power.
<b>LAN2</b>	This is a LAN data transmission port which can connect computers, cameras, switches and other devices.

## Hardware connection schematic diagram



## Indicator light state description

SIG1, SIG2, SIG3, SIG4	<b>Signal indicator</b> <ul style="list-style-type: none"> <li><b>Master AP:</b> Output power indicator lamp. When the output power is between 3~9dbm, the SIG1 light lit, the output power is between 10~16dbm, the SIG1-SIG2 lights lit, the output power is between 20~22dbm, the SIG1-SIG3 lights lit, the output power is at 23dbm and above, the SIG1 to SIG4 lights lit.</li> <li><b>Subordinate AP:</b> Signal connection intensity indicator. Running flowing water light when connection fails. When the connection is successful and the signal intensity in the range of 0 ~ -65dbm, the SIG1 to SIG4 lights lit, the signal intensity in the -66 ~ -75dbm, the SIG1 to SIG3 lights lit, the signal intensity in -76 ~ -85dbm, the SIG1 to SIG2 lights lit, the signal intensity in the -85dbm and below, the SIG1 light lit</li> </ul>
ETH	<ul style="list-style-type: none"> <li><b>Port state indicator lamp :</b> When the wire is connected, it is always bright and goes out when it is broken.</li> </ul>
	<ul style="list-style-type: none"> <li><b>Power indicator lamp :</b> When the power is electrified, the lamp is always bright and goes out when it is broken.</li> </ul>
	<ul style="list-style-type: none"> <li><b>Digital tube indicator lamp :</b> Short press "digital switch / reset" button, each digital tube value will add one (0-9-A- F cycle)</li> </ul>

## Fast Pairing of digital switch

### One to one pairing method

- Select dial a bridge to "M" and another bridge to "S".
- Short press "Dig SW/Reset" button, each digital tube value will add one (0-9-A-F cycle).
- The paired bridge is set to the same value and can be paired successfully.

### One to multiple pairing method

- Select dial a bridge to "M" and the other bridges to "S".
- Short press "Dig SW/Reset" button, each digital tube value will add one (0-9-A-F cycle).
- The paired bridge is set to the same value and can be paired successfully.

## Digital tube and wireless channel comparison table

Digital tube numericavalue	0	1	2	3	4	5	6	7
Wireless channel	1	2	3	4	5	6	7	8
Digital tube numericavalue	8	9	A	b	C	d	E	F
Wireless channel	9	10	11	28	32	36	40	44

- The default channel bandwidth of the wireless bridge is 40MHz.
- The number of channels supported by some wireless bridges will vary. Please refer to the actual product.

## Specification

IXWB-450	
Chipset	MTK7628KN+7610E 450Mbps
Flash Memory	8MB (Up to 16MB Support)
Memory	1MB DDR RAM
Max.Transmission Distance	2KM
Tansmission Specification	1:1, Up to 1:N(1:8) Support
Frequency	5.150~5.825GHz
Wireless Standard	802.11a/n/ac 1T1R SISO
Wireless Transmission Speed	Up to 450 Mbps
Transmission Power	Up to 20dBm
Antenna	14 dBi
TX Power	11a @54M:25±2DB, @6M:27±2DB, 11n @MCS7:23±2DB, @MCS0:25±2DB"
RX Sensitivity	11a: 72dbm@54Mbps, -90dbm@6Mbps 11n: -70dbm@MCS7, -90dbm@MCS0
Wireless Security	WPA/WPA2; WPA-PSK/WPA2-PSK (AES/TKIP)
EVM	802.11n: ≤-28 DB 802.11a: ≤-25 DB
5G Channel	36, 40, 44, 48, 52, 56, 60, 64, 149, 153, 157, 161, 182, 186, 190, 194
LAN Port	2 10/100M adaptive LAN ports, LAN1 support 24V PoE power supply
Switch/Button	[Master ↔ Slave] Dip Switch, Reset Button, Digital Button
LED	Radio Signal Indicator Light LAN Indicator Light Power Indicator Light
Power Consumption	<10W
Power Supply	Passive POE Power 24V 0.5A DC 12V, 1A
Temperature/ Humidity	Operating Temperature: -40°C~55°C Preserve Temperature: -40°C ~ 70°C Operating Humidity: 5% ~ 90%RH non condensation Preserve Humidity: 5% ~ 90%RH non condensing
Dimension	90 x 260 x 40mm
Weight	Net Weight : 0.38 kg Gross Weight : 0.59 kg
Certification	FCC, CE, KC



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This device complies with part 15 of the fcc rules. Operation is subject to the following two conditions :

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received including interference that may cause undesired operation