Outdoor Wireless Digital Bridge/CPE

Quick Setup Wizard

V1.0

Hardware connection schematic diagram

2G Bridge



Computer,Camera

5G Bridge



Computer, Camera

Interface Descriptions

DIP Switch: To adjust the transformation between the "Master AP" mode and the "Subordinate AP" mode of the bridge.(M)(S) DC:Power interface, 12V 1A DC power interface. Digital Switch/Reset:Both digital switch and reset button.short press the

Digital Switch/Reset:Both digital switch and reset button, short press the button when electrifying,the numeric value of the digital tube will be added one and press15 seconds, the device will be restored to the factory setting. (Dig SW/Reset)

2G Bridge

LAN1/POE: 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.

LAN2:This is a LAN data transmission port which can connect computers, cameras, switches and other devices.

5G Bridge

ETH/POE interface: 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.

COM: It is a debugging interface.

Indicator light state description

2G Bridge

r	
SIG1,SIG2 SIG3,SIG4	Signal indicator: Master AP: Output power indicator lamp. When the output power is less than 17 dbm, the SIG1 light lit, the output power is between 17~ 19dbm, 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. Subordinate AP: 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 SIG2 lights lit, the signal intensity in the -85dnm and below, the SIG1 light lit.
LAN1/LAN2	Port state indicator lamp:When the wire is connected, it is always bright and goes out when it is broken
(î•	The lights flicker when the bridge is running normally.
Ċ	Power indicator lamp:When the power is electrified, the lamp is always bright and goes out when it is broken.
1	Digital tube indicator lamp:Short press "digital switch / reset"button, each digital tube value wil add one (0-9-A-F cycle).

5G Bridge

SIG1,SIG2 SIG3,SIG4	Signal indicator: Master AP: 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. Secondary AP: 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 the -85dnm and below, the SIG1 light lit.
ETH	Port state indicator lamp;When the wire is connected, it is always bright and goes out when it is broken.
Ċ	Power indicator lamp: When the power is electrified, the lamp is always bright and goes out when it is broken.
1	Digital tube indicator lamp:Short press "digital switch / reset"button, each digital tube value wil add one (0-9-A-F cycle).

Fast pairing of digital switch

One to one pairing method

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

One to multiple pairing method

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

Digital tube and wireless channel comparison table

2G Bridge

Value	0	1	2	3	4	5	6	7	8	9	A	b	с	d	E	F
Channel	1	2	3	4	5	6	7	8	9	10	11	28	32	36	40	44

5G Bridge

Value	0	1	2	3	4	5	6	7	8	9	A	b	с	d	E	F
Channel	36	40	44	48	52	56	60	64	149	153	157	161	182	186	190	194

Note:

1. The default channel bandwidth of the wireless bridge is 40MHz. 2. The number of channels supported by some wireless bridges will vary . Please refer to the actual product.

Setting up a bridge in a browser

Computer settings:

- 1)Open the computer--Right click [Internet] [Attribute] [Change adapter settings];
- 2)Right click of the mouse click [Local connection], Select [Attribute];
- Double-click the [Internet protocol version 4 (TCP/IPv4)] in the connection properties dialog box project(as show in the left below).
- 4)In the [Internet protocol version 4] dialog box, choose [use the following IP address] and set the IP address to 169.254.254.X (X is any number between 1-253), and the subnet mask is set to 255.0.0.0 (as show in the right below). Finally, click [OK] and quit.

Local Area Connection Properties	Inter Protocol Version 4 (TCP/IPv4) Properties
Networking	Networking
Connect using: Intel(R) 82562V 10/100 Platform LAN Connect	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Configure	Obtain an IP address automatically
This connection uses the following items:	Use the following IP address:
Client for Microsoft Networks	IP address: 169.254.254.1
Ele and Printer Sharing For Microsoft Networks	Subnet mask: 255.255.0.0
A Internet Protocol Version 6 (TCP/IPv6) A Internet Protocol Version 4 (TCP/IPv4)	Default gateway:
Link-Layer Topology Discovery Mapper I/O Driver	
Link-Layer Topology Discovery Responder	Obtain DNS server address automatically
	Use the following DNS server addresses:
Instal Uninstall Properties	Preferred DNS server:
Transmission Control Protocol/Internet Protocol. The default	Alternate DNS server:
wide area network protocol that provides communication across diverse interconnected networks.	Validate settings upon exit Advanced
OK Cancel	OK Cancel

Login management interface

The default mode of the device is the bridge mode,open the computer browsers, after entering its address 169.254.254.254, the bridge device list will be displayed, and clicks on the [login] button to log in to the device. Note:Some wireless bridges do not have "Bridge Device List" function. Please refer to the actual product for details.

Bridge Device List [Global/中文]								
ID	MAC	IP address	Wireless mode	Status	Operate			
1	18:40:a4:00:00:02	169.254.254.111	Server Mode	Online	Login			

The username and password of the web management platform are all admin, click the [login] button to log in to the device.

Web Management Platform	[Global/中文]
Lonaren jabon Èrtenert Remerter passert Logit	

Network settings

Configuring the mode and bridge interface according to the network usage of the site. [Bridge mode] refers to the wireless transmission of data by the device. [Route mode] refers to the device's NAT conversion and wireless transmission of the data.

Web N	lanagement Platform	Network d	の P文/English
000		≡Mode	
\$			
۲		Mode @Bridge Mode O Route Mode	
•	Network		
۰	Cloud Management	Bridge Interface	
٢			
8	Setup Wizard	address	
		IP address 172.16.0.10	
		Netmask 255.255.0.0	
		Gateway 172.16.0.1	
		DNS1 114.114.114	
		DNS2	

Description:The device supports bridge mode and route mode in the "M AP" mode,but only support the bridge mode in the "S AP" mode.

Wifi settings

Note: Some wireless bridges do not have this function. Please refer to the actual product for details.

The default WiFi name of the 2G Bridge is Brap-2G-XXXX, the password is 88888888.

The default WiFi name of the 5G Bridge is Brap-5G-XXXX, the password is 888888888.

Computers, mobile phones, and other terminals can be wirelessly

connected to the device through this signal.(Remarks:XXXX is the last

four bits of the bridge's MAC address)

Web N	lanagement Platform	WiFi Settings
888		=WFi Settings 0
^		
•	Bridge Settings	Enable 8
۰	Advanced Settings	
•	WiFi Settings	SSID BRAP_2G_0002
۲		Encryption WPA2-PSK •
		Password
03	System	
8		2 Save
		Copyright © 2017 YXA10015807

Description:The device launches the WiFi signal in the main AP mode.In the secondary AP mode, the WiFi signal is transmitted only after the bridge pairing is successfully connected.

Bound cloud end

Note: Some wireless bridges do not have this function. Please refer to the actual product for details.

If the device is connected to the Internet, you can configure the [bridge interface]

information.After the device is connected to the Internet, it can be remotely managed by the cloud.

1.Login "www.tianwifi.net".net to apply for a cloud account.

2.Fill in your cloud account in the "username" column.

3. The server address bar is filled in "www.tianwifi.net".

 The device description bar suggests filling up the installation location for later management.

5.Click the [Save] button, prompting the connection state: Connected to

www.tianwifi.net, which indicates that the device has successfully bound the cloud platform.

Web N	lanagement Platform	Cloud Management
888		⊒General Item
\$		
۲		Soor store www.tinewifi.net
•	Network	
۰	Cloud Management	Device description
٢		Connection status Connected to www.liamuilt.net
Ŗ		
		U Save

Cloud management

1.Login cloud platform:www.tianwifi.net.

2. Click on [Area list] -- [Management] -- [Device management], find the binding bridge, click[Remote management] button and you can remote login management.

		Home	Data Statistics	Business	SD-WAN	Users	example Sign Out 🔎 中文/English					
Device List	Area Li	st Di	rvice Map									
Regional Infor	nation Devic	e Managemer	d Authentication Manag	ement Adverti	sing Management							
Device Mana	Device Management											
		E	Dn		O Current total s	isers						
			Hardwa Device 1 Firmwar Online 1	re model ID e version Time	BRAP 18:40:a4:cb:80:89 V1.0-201712291033 2hour28Minute	M Ed	oving liting					
	Re mana	imote igement	Device	Description	N536-2							

PS:Cloud management only supports remote configuration of devices.There is no limit to the number of cloud bound devices.But it does not support authentication, data statistics, and business functions.