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Air access

ZDC Dual-RF Outdoor Wireless Access Point

ZA-5000-D

Quick Installation Guide

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ZDC

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1. ZA-5000-D Introduction

The next-generation Broadband Wireless Access device—ZA-5000-D Dual-RF Outdoor Wireless Access Point, Simultaneously works as 5GHz Bridge and 2.4GHz Access Point. The new features and benefits are: support POE (power over Ethernet); support testlink, use this utility, you can place the antenna in the best place. Surface packing is full block out and with waterproof function. The Access Point provides powerful features.

Appearance of Product



Hardware Installation

Package Content

Before installation, make sure that you the following items: ZA-5000-D*1 DC Injector*1 Product CD*1 Power Adapter*1 Fixed settings*1

Installation

Take the following steps to setup the Dual-RF Outdoor Wireless Access Point. Hardware equipment



Fixation First you should fix the Access Point, the following figure show it:





Connect the Ethernet

The Access Point supports 10/100M Ethernet connection. Attach UTP Ethernet cable to the RJ-45 connector on the Access Point. Then connect the other end of the RJ-45 cable to a hub or a station.

Put UTP cable through the water-joint



Make the RJ-45 connector: white orange | orange white green | blue white blue | green white brown | brown



Plug water-joint into the Access Point and close the water-joint.



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Notice: For protected build-in 23dBi gain antenna of wireless1, Surface of device was placed plastic protective pellicle, when you use device, please rip away.



Notice: Wireless2 of device need additional high gain antenna, you may select appropriate antenna by real situation, and suggest that there has long distance
between antenna of wireless1 and antenna of wireless2 for preventing interference.

Warning: Please confirm ground connection of the Access Point.

Configuration PC

This section introduces you how to configuration TCP/IP protocol into your personal computer. And suppose you have been successfully installed one network card on your personal computer.

Windows 98/Me

- 1. Click the Start button, select Settings, then select Control Panel
- 2. Double-click the Network Icon
- 3. In the configuration tab, select the TCP/IP protocol line that is associated with your network card/adapter. If there is no TCP/IP line listed, you will need to first install the TCP/IP protocol.
- 4. Click the Properties button, then choose the IP Address tab. Select Specify an IP address.
- 5. Enter an IP address in the IP field, within the range of 192.168.0.X(X can't be 228).
- 6. After clicking OK, windows might ask you to restart the PC. Click Yes.

Windows 2000/XP

- 1. Click start button, select Settings, then click control panel.
- 2. Right-click the network icon and select open to open the network connections dialog.
- 3. Right-click the appropriate LAN connection and click properties to open the properties dialog for the connection:
- 4. Check the box next to Internet Protocol (TCP/IP) and click properties.
- 5. In the TCP/IP Properties dialog box, click the radio button next to use the following IP address.
- 6. Enter an IP address in the IP field, within the range of 192.168.0.X(X can't be 228).

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Internet Protocol (TCP/IP) Pr General	operties ? 🔀
	automatically if your network supports ed to ask your network administrator for
🔘 Obtain an IP address automa	atically
☐ O Use the following IP address	·
IP address:	192.168.0.98
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.0.228
O Obtain DNS server address	automatically
☐ ● Use the following DNS serve	r addresses:
Preferred DNS server:	
Alternate DNS server:	
	Advanced
	OK Cancel

2. Quick Build Outdoor Wireless Bridge

Step.

- 1. The hardware is installed.
- 2. Run Web Explorer, Enter default IP Address (**192.168.0.228**) of the Access Point in the Address field. Enter default User Name (**admin**) and default Password (**password**), Click "Login" button. The main page will show up.



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	User Name:	stain	
	Password: Language:	English V Login Cancel	

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Notice: Please use more than Microsoft IE 6. 0 browsers!

3. Configuration IP Address of the Access Point.

(b) + (4) http://192.16	0.0.228/start.htm	+ 10	人や工・工程型を	58到 #H 1	LB-
ZDC	<u>Air acces</u>	ZA-5000-D Dual-RF Outdoor Wireless Access Point	Home	Help	Ent
	IP Settings				
eneral Ni Getup Wineleru I. Setup	Access Point Name	IDC2239ef			
Bridge Sehap WEP Werkeisz Setop Bridge Sehap WKEP MAC Control is Test Management Change Plastment Change Plastment Farmware Upgradis Backap/Restave Relation Station List Station List	P Settings IP Settings IP Type IP Address Butnet Mask Default Gateway	StaTIC 192. 168. 0. 228 255. 255. 255. 0 192. 168. 0. 254 Apply Cancel			
	Nanja	·	14		

Notice: IP address must be in the same net section and not the same!



4. Configuration Wireless1 the parameter of the Access Point, including: Country/Region, Channel, Data Rate and Remote MAC Address.

14E(D) + (D) H05://192	168-0-225/start.htm	(-)	124日 1日日日 - 224日 日田 * 254	8.
ZDC	Air occes	ZA-5000-D Dual-RF Outdoor Wireless Access Point	Home Help	Exit
	Wireless1 Settings			
General LAN Setup Westeast 1 Setup • Bridge Setup • WEP • Westeast 7 Setup • Bridge Setup • Bridge Setup • Bridge Setup • WEP • MAC Control Umit Test • Maxagement • Change Pausword	Country / Region Channel / Frequency Duta Rate Output Power RTS Threshold (0-2346) Fregmentation Threshold (256-2348) Preamble Type Remote MAC Address	149 / 5 Best Full 2 2346 2346 Cong	-	
Firmware Upgrade Backup/Restore Reboat Information Station List		Apply Cancel		
 Statistics 	Nantor Ed	WWWWWWWWWW		

5. Configuration Wireless2 the parameters of the Access Point. including: AP Mode, SSID (in AP Mode), Country/Region, Wireless Mode, Channel, Data Rate, and type MAC Address of the remote wireless device (in Bridge Mode).

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ZDC	Air acces	ZA-5000-D Dual-RF Outdoor Wireless Access Point	Home	Holp	Exit
	Wireless2 Settings				
General LAN Setup B Wyoless1 Setup	Access Point Mode Wintess Network Name (SSID)		AF Mode	1	_
 Endge Setup WEP 	Country / Region		Chana 💌		
Wreless2 Situs Basic Setus	Operating Mode		11a Only		
- Lindge Setup	Channel / Frequency		149 / 5,7456Hz 💌		
+.WEP	Data Rate		Best +		
MAD Coretol	Output Power		Full ·		_
= Management	RTS Threshold (0-2346)		2346		
Change Password Farmware Upprade	Fragmentation Threshold (258-2346)		2346		
 Backup/Restore 	Beacon Interval (20-1000)		100 ms		
• Februit	DTIM Interval (1-255)		1		
 Station List 	Wheless Separator		C Ves @ No		
a Statistics	Broadcast Wireless Network Name (SSID)		@ Yes C No		
	Preamble Type		IF Long C Auto		
		Apply Cancel			



Warning: In the Bridge mode, Country/Region, Channel, Data Rate of devices must to be same, otherwise unable to setup wireless chain.

Note: If you experience interference (shown by lost connections and/or slow data transfers) you may need to experiment with different channels to see which is the best and wireless1 and wireless2 had better not set the same channel.

6. Use Link test function and test wireless chain.

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2DC	Au	OCCES Dual-RF Outdoor Wireless Access Point	nome neg La
	Link Test		
i Setup Antonist Setup MEP WEPsil Setup Basic Setup Basic Setup Basic Setup MAC Control Text Text	Local MAC : Remate MAC : Space Between AP (0-36001 RF Cable Loss(0-10) Local Antenna Gain(0-89) Remote Antenna Gain(0-89)	2 dBi	
Change Password Firmware Upprade	Trans Pkt Nume	0 Rev Pist Name	
Backup/Rettors	RovTrans Rate:	0% Time Elapsed(s):	1
Pabout	Local Signal Level(dDm):	-91 Remote Signal Level(dthn);	(4
filmation Station List Statistics	Local Signal Level: (PERCENT)	0% Remote Signal Level (PERCENT)	0
	-	Start Strp Apply	

Select MAC Address of wireless1 in Local MAC list, then input the parameters of Space Between AP, RF Cable Loss, Local Antenna Gain and Remote Antenna Gain, click "Apply" button, then click "Start" button, test wireless1 chain.

Select MAC Address of wireless2 in Local MAC list, then select Remote MAC Address in Remote MAC list, input the parameters of Space Between AP, RF Cable Loss, Local Antenna Gain and Remote Antenna Gain, click "Apply" button, then click "Start" button, test wireless2 chain.

Notice: In Bridge Mode, the value of Space Between AP should close to the real distance.

Warning: The value of Space Between AP must be input.

View the intensity of signal, and adjust the positions and angles of the antenna according to the



intensity of signal. Adjust the antenna from side to side from head to foot, observe the number value of dBm at the same time. When the number value of dBm is the greatest, the antenna is in the best positions.



If wireless2 work In Point-to-Multipoint mode, then must test every chain.

Notice: In the Point-to-Multipoint mode, central point input the distance from the central point to the farthest remote point, Each remote point input the real distance from the each remote point to the central point.

Technical support

You can access the Web page: <u>http://www.zcom.com.cn/chinese/download.asp?styleid=1</u>. Upgrade latest version software to download, if meet difficulty and please contact our supplier in the course of installing and using the Access Point.

Nanjing Z-com Wireless Co.,Ltd
Addr: 168 Longpan Zhong Road JiangSu Software Park Suite#118
Postcode: 210002
Tele: 025-84661320
Fax: 025-84661313
Websites: www.zcom.com.cn
E-Mail: support@zcom.com.cn