300Mbps Ceiling APP

Quick installation guide



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This manual suit for quick installation of indoor 300m 11N wireless AP & High Power Router. This manual will instruct you how to configure and manage this indoor 300m 11N wireless AP & High Power Router in right ways.

Please check the package before use.

- Ceiling AP*1
- DC 24V 1000mA POE adapter*1
- auxiliary tools for installation*1
- Quick installation guide manual*1
- Quality certificate*1
- Warranty Card*1

Quick Configuration Guide

1st .Connection and power supply.





power supply mode

1. DC power supply: the DC's electronic standard is 12V/1A, connection diagram as follow:



2. Powered over Ethernet: Connect device's WAN/LAN Port with PoE adapter by LAN Cable (Both LAN port and WAN port support the 12V/24V PoE.), the right connection diagram should be as follow:



If user want access into Ceiling AP from PC, can be Wireless connection; or LAN cable connection, but the LAN cable should be designed as follow, and our ceiling AP should be under Gateway (Default Mode) and AP operation mode!



3. When powered by 24V/1A PoE, this ceiling AP can be PoE power supply for another ceiling AP from Wan port or Lan port

Attention: line 4,5 must be positive electrode, Line 7,8 must be negative electrode in RJ45 Port.Just as the picture shows below, Device A's WAN port connect with 24V/1A PoE Power Adapter, then A's LAN port supply 12V/1A power for B.



Working mode Description

Gateway: WAN/LAN Connection, from Internet to user







Repeater/WDS: Bridge the Wireless networking via two or more APs, to booster the wi-fi signal and extend Range



WISP: Wireless Access, Wireless out or LAN out, DHCP Enable



2^{nd.}login and launch

- 1) connect the ceiling AP with computer by Wired/Wireless
- 2)Get the IP address automatically or manually configure

Wire connect

A. manually configure

configure local IP address as 192.168.0.x(X can be selected from 2-254) the same network segment as XD9500, subnet mask 255.255.255.0, As P2 and P3 shows.



P2 IP configuration of computer network

Local Area Connection Properties	Internet Protocol (TCP/IP) Properties
ieneral Authentication Advanced	General
Connect using:	Very service of IP without and and another hit is a section by a month
Beatek RTL8139 Family PCI Fast Ethernet NIC	this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
This connection uses the following items:	Obtain an IP address automatically
Client for Microsoft Networks	Use the following IP address:
Brile and Printer Sharing for Microsoft Networks	IP address: 192.169.0.100
Guos Packet Schedulet Sefunction (TCP/IP)	Subnet mesk: 255 , 255 , 255 , 0
Instal. Uninstal Properties	Default gateway:
Description	Obtain DNS server address automatically
Transmission Control Protocol/Internet Protocol. The default	Use the following DNS server addresses;
across diverse interconnected networks.	Preferred DNS server:
Show icon in notification area when connected	Alternate DNS server:
	Advanced
OK Cancel	
	OK Cancel

P3 IP configuration of computer network card

wireless connection

After basic configuration, if you want use wireless internet, you can configure computer wireless connection as local connection settings mentioned above. Right click "wireless network configuration", chose "check available wireless connection", find the connecting name "XD9500", the default Passwords is "666666"





LAN or High-Speed Internet





P 5 Wireless Connection



If you computer include 802.11b/g/n functions but cannot find wireless connection, please contact the after-sell departement of your computer supplier when in those situation.

1)Right click "network neighborhood" and chose "attribute", no wireless connection exist.

2)Wireless connection existed, Right click it and chose "attribute", there are "normal" and "advance" in the menu, but no "wireless network configuration" exist.

3)Other computer or wireless device connection is normal.

3) Log in the CPE: Open your web browser, type 192.168.0.1 in the address bar, enter the User name/Passwords: preset as **admin/admin**, then you can found on the label attached to the router, click **OK**

Connect to 192.	168.0.1
A	L B
User name: Password:	admin 💌
	<u>Remember my password</u>
	OK Cancel

P6 User name and passwords input

3nd steps: Operation mode setting

• Enter into the page of WEB software management page, then set the ceiling AP as requirement. The default working mode is Gateway, but we take Repeater for example to show how to select the right working mode. Click Wizard, then select the Operation modem, then next to enter into another page.

Wiz	ard	Status	Operation Mode	Wireless	Network	Firewall	Management	0	Help
Wiz	ard							English	~
Wizar	d Satu								
Welco The W	ome to /izard	Setup Wiz will guide y	zard. /ou the through follov	ving steps. Be	gin by clickin	ig on Next.			
1. 2. 3. 4. 5.	Setup Setup Setup Setup Wirel	Operation WAN Interf LAN Interfa Wireless (ess LAN Se	Mode face ace Connect ttting						
									Most

P7 Wizard Page

• Set Working Mode: Select Repeater Mode in P8, click Next

Wizard	Status	Operation Mode	Wireless	Network	Firewall	Management		() Help	
Wizard	4							English	~	-
Operation N	lode									
⊖ Gatewa	ay Mode	in er be	this mode, the abled and PC setup in WAN	device is sup s in LAN ports I page by usin	posed to con share the sa g PPPOE, DH	nect to internet via AE me IP to ISP through ICP client or static IP.)SL/Cable Mode WAN port. The c	m. The NA connection	T is type can	
Repeat	In this mode, the user can access wireless AP, devices can be connected to other wireless network relations and the wireless, all interfaces are bridged together. Without NAT, firewall and all network relations							network related		
O Wirele	Wireless ISP In this mode, all ethernet ports are bridged together and the wireless client will connect to ISP a point. The NAT is enabled and PCs in ethernet ports share the same IP to ISP through wireless You must set the wireless to client mode first and connect to the ISP AP in Site-Survey page. The connection type can be setup in WAN page by using PPPOE. DHCP client or static IP.							P acces ess LAN The	is I.	
O AP Mo	ode In this mode, the AP wireless interface and cable interface bridging together. Without NAT, firewal all network related functions.							rewall a	nd	
	O WDS Mode In this mode, the wireless interface can be connected with other wireless AP through WDS, an wireless interface and cable interface. Without NAT, firewall and all network related functions.							and the S.		
							Cancel	Back	Next	

P8 Operation mode select

• LAN Setting

LAN IP Address Setting: Fill in the IP Address we need, it will show like P9 after configure

DHCP Server: DHCP Server is unable in default under Repeater mode, click Next to continue

Wizard	Status	Operation Mode	Wireless	Network	Firewall	Management		0) Help
Wizard								English	~
LAN IP Setti	ng								
		IP Address	192 . 168 . 1	. 1					
		Subnet Mask	255 . 255 . 2	. 0					
	Prohibit Acce	ss Device from AP	Disable 🕚	~					
DHCP Serve	r Setting								
		DHCP Server	O Enable	Oisable					
		DHCP Client IP	192 . 168 . 1	1.2-	192 . 168	. 11 . 254			
	E	OHCP Lease Time	36400 F	Range:(300-86	64000)s			1	
							Cancel	Back	Next

P9 LAN Setting

 Connect with Wireless AP: Click Search Wireless AP in page P10, then choose the right wireless AP in P11. Then input the right passwords and click Next to continue in P12

Wizard	Status	Operation Mode	Wireless	Network	Firewall	Management		Ø) Help
Wizard								English	~
Connection	Setting								
		Status	Enable	O Disable		-	_		
		SSID and Channel			11 [2.462	2 GHz] 🗸 Sc	an AP		
		Lock AP			-				
		Authentication	Open System	~					
		Encryption	●None ○ V	VEP64 () WE	Р128 О ТКІ	IP O AES			
							Cancel	Back	Next

P10 Scan AP

Rescan AP ChinaNet-cjGA (cc:96:a0:a2:0d:d0 Channel 1 Signal -17 dbm) Encryption WiFi (WPA2PSK/AES) XD9500/test (78:d3:8d:a0:9c:38 Channel 3 Signal -44 dbm) Encryption WiFi (WPA2PSK/AES) Encryption WiFi (WPA2PSK/AES) TEST001 (70:3a:d8:01:02:00 Channel 3 Signal -29 dbm) Encryption WiFi (WPA2PSK/AES)	Scan	AP	8
ChinaNet-cjGA (cc:96:a0:a2:0d:d0 Channel 1 Signal -17 dbm) Select AP Encryption WiFi (WPA2PSK/AES) Select AP (78:d3:8d:a0:9c:38 Channel 3 Signal -44 dbm) Select AP Encryption WiFi (WPA2PSK/AES) Select AP TEST001 (70:3a:d8:01:02:00 Channel 3 Signal -29 dbm) Encryption WiFi (WPA2PSK/AES) Select AP	Re	scan AP	
XD9500/test (78:d3:8d:a0:9c:38 Channel 3 Signal -44 dbm) Encryption WiFi (WPA2PSK/AES) TEST001 (70:3a:d8:01:02:00 Channel 3 Signal -29 dbm) Encryption WiFi (WPA2PSK/AES)	atl	ChinaNet-cjGA (cc:96:a0:a2:0d:d0 Channel 1 Signal -17 dbm) Encryption WiFi (WPA2PSK/AES)	Select AP
TEST001 (70:3a:d8:01:02:00 Channel 3 Signal -29 dbm) Encryption WiFi (WPA2PSK/AES)	atl	XD9500/test (78:d3:8d:a0:9c:38 Channel 3 Signal -44 dbm) Brcryption WiFi (WPA2PSK/AES)	Select AP
	all	TEST001 (70:3a:d8:01:02:00 Channel 3 Signal -29 dbm) Encryption WiFi (WPA2PSK/AES)	Select AP
	37		

P11 AP List after scan

Wizard	Status	Operation Mode	Wireless	Network	Firewall	Management	Ø	Help
Wizard							English	•
Connection	Setting							
		Status	Enable	O Disable	e			
		SSID and Channel	TEST001		3 [2.422	GHz] 🚽 Scan Ał	P	
		🔲 Lock AP	70 -3a -d8	-01 -02	-00			
		Authentication	WPA2PSK					
		Encryption	🔾 None 🔍 W	VEP64 🔍 WE	EP128 🔘 TK	(IP 🔍 AES		
		Key	12345678					
							Cancel Back	Next

P12 Passwords input

Basic Setting: configure the SSID, Channel, passwords if require, like P13

Wizard	Status	Operation Mode	CPE Connect	Wireless	Network	Firewall	Management		🕐 He	lp
Wizard								Engli	sh	×
Basic Settin	g									
		Status	Enable	_	O Disable					
		SSID	TEST001		Mode	B,G,N N	1			
		Regional	China,ETSI 🗸		Channel	11 [2.462 0	GHZ) 🗸			
		Brodcast SSID	Enable		O Disable					
		WMM	Enable		O Disable					
		Authentication	WPA2PSK	~						
		Encryption	O None O WEP6	4 O WEP128		ES O TKIP	AES			
		Key [-		_
							Cancel B	ack	Finishe	d

P13 Basic Setting

 Setting Finish: Click Finish after configure all the data, pop up a window and ask whether continue to changing even the ceiling AP will reboot. Choose OK to continue and waiting system reboot.

Wizard	Status	Operation Mode	Wireless	Network	Firewall	Management			🕐 н	lelp
Wizard								Eng	lish	~
Basic Settin	g	来自网页的消息	1				<u>S</u>			
		Ch su	ange Operatio re?	n mode,the d	levice will be	reboot. Are you				
					ОК	Cance				
		Authentication	WPA2PSK	~						
		Encryption	O None O W	EP64 O WEI			AES			
		Key	•••••]			
							Cancel	Back	Finish	ed

P14 Change the working mode

 Checking Status: After reboot, the working mode of Ceiling AP is Repeater. Our PC and other wireless device can access to and get Ethernet from the top end AP or router by our ceiling AP in Repeater Mode. The user should change PC's IP address to one from 192.168.0.2~254, then can access to the ceiling AP and checking the status.

After checking the status successful, we finished the Repeater working mode setting.

For other mode, can be configured and setted similiar like WDS.

Management

Click Management to enter into the management page as follow P16

Wizard	Status	Operati	on Mode	Wirele	ss N	etwork	Firewall	Management	<u>.</u>	0	Help
System	Route	DDNS	QoS	User	Logs	Upgra	de Firmware	System Time		English	~
Save/Reload Settings											
Backup			Sav	Save the configuration file to your computer							
	浏览			Light the pound configuration file recourse configuration							
Restore				Osing the saved configuration the recovery configuration							
Reset Default Restore the factory default settings,				gs, please pre	ess this button						
	Reboot Reboot										

P 16 Management Page

- System: export the default data, or load the new configure file to restore the AP's system, or reboot to default setting.
- Manager: set the the manager and passwords for ceiling AP
- Log: Log Enable or disable, or view the system log from here
- Firmware upgrade: Upgrade new firmware to access stable function



The XD9500 can restore to factory default by press the Reset button last more than 10 seconds. Then XD9500 will restore to factory default setting after WiFi LED flash off and System reboot.

Trouble Shooting

Symptoms	Treatment
Forget the login user name and passwords	Restore to factory default
Can't login the ceiling AP through WEB management	 1、 Pls make sure the PC and ceiling AP's IP Address are in same network segment, can be checked through Ping: PC startinput CMD in Run, then ping 192.168.0.1 2、 Login after Restore this ceiling AP to factory default 3、 Make sure there isn't any equipment take IP address of 192.168.0.1 in ceiling AP's networking 4、 Check your computer and network cable to avoid any problem, recommend to use unshielded twisted pair 10/100M Ethernet cable.
Forget the AP's SSID and passwords	Restore to factory default
Can't access to AP's IP address	 Check the AP's DHCP and make it enable in Gateway mode and WISP mode Check the connection between ceiling AP and the top networking in AP and Repeater mode
No Power indicator	 If DC Power, check the local power supplier If PoE Power, check the PoE adapter and Internet cable

Form 1 Symptoms and Treatment