

User Manual of 11ac 1200Mbps Ceiling AP



This is the user manual of 11ac 1200Mbps Ceiling AP, which will approximate guide you how to set and apply the Ceiling AP, it provide a convenient graphical interface for network construction and maintenance person, as well as a user through a simple and accurate operation, and configuration management of the ceiling wireless access point.

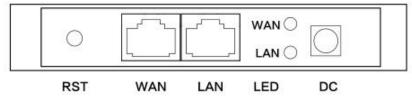
1st Hardware and Operation mode Instruction



LED indicator:

Green: Power Indicator Blue: WiFi Indicator

AP Interface:



RST: Reset Button, it make AP revert to default data after press it 15 seconds.

WAN: Gigabit WAN Port, connect with ADSL modem or Internet mainly. It will be LAN port under Wireless AP and WiFi Repeater operation mode

LAN: Gigabit LAN Port to end users

LED: LED Indicator of WAN port and LAN port

DC: DC power connector

Power Supply:

1. PoE Adapter Power Supply:

The connection diagram showed as P1, internet cable connect to PoE adapter's LAN Port, Ceiling AP's WAN port connect to PoE adapter's PoE Port, then PC will access into ceiling AP through cable or wireless

Pls note, if the PD Wireless AP support 24V passive PoE, then the PoE adapter should be 24V Passive PoE,. If the PD wireless AP support 48V IEEE 802.3af standard PoE, the PoE adapter should be 48V PoE standard.

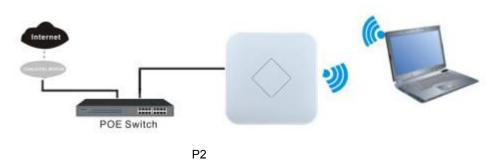


2. Powered by PoE Switch

The connection diagram shows as P2, Internet cable from PoE Switch to Ceiling AP's WAN Port, then PC access into ceiling AP wired/wireless.

Pls note, if the PD Wireless AP support 24V passive PoE, then the PoE switch should be 24V Passive PoE,.

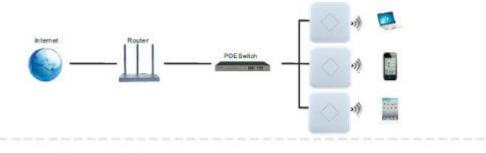
If the PD wireless AP support 48V IEEE 802.3af standard PoE, m the PoE switch should comply with 802.3af 48V PoE standard.



Operation Mode:

There are three operation mode on this wireless AP:

1. Wireless AP: Plug and Play to transmit Wireless signal for wireless end users from wired networking



2. Wireless Repeater: Wireless receive and transmit, to extend the existing wireless networking for more range.



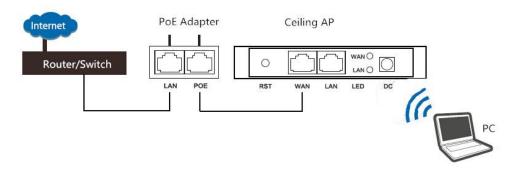
3.Gateway: Supply WAN connection from DSL, Cable Modem or broadband mobile phone network through PPPoE, Static IP, Dynamic IP



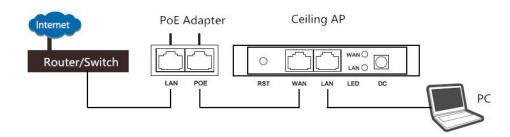
P3 Operation Mode

Connect Wireless AP with PC:

Use can connect the PC with wireless AP by Wireless SSID and LAN cable: The diagram of wireless connection showed as follow: Pls note: the default SSID is **WirelessAP2.4G/5.8G, SSID's password is 66666666**



The diagram of LAN cable connection showed as follow:



2nd: Login

1) Connect the Ceiling AP with computer

2) Configure the PC's local connection IP address as 192.168.188.X (X is number from 2 to 254), subnet mask is 255.255.255.0, follow P4 and P5 to finish.

LAN or High-S	peed Internet
一一 本班	她连接
Coni	DISADIE
C Qua	Status
	Repair
	Bridge Connections
	Create Shortcut
	Delete
	Rename
	Properties

P4 Setting of computer's IP address

本地连接 Properties ? 🔀	Internet Protocol (TCP/IP) Properties
General Advanced	General
Connect using: Qualcomm Atheros AR8151 PCI-E Gig Configure	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.
This connection uses the following items:	Use the following IP address:
Elient for Microsoft Networks Bie and Printer Sharing for Microsoft Networks Bie and Printer Sharing for Microsoft Networks B QoS Packet Scheduler S Internet Protocol (TCP/IP)	IP address: 192 . 168 . 188 . 10 Subnet mask: 255 . 255 . 0
Install Unnstall Properties	Default gateway: Defa
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	Use the following DNS server addresses: Preferred DNS server: Alternate DNS server:
Show icon in notification area when connected Notify me when this connection has limited or no connectivity	Atternate DNS server.
OK Cancel	OK Cancel

P 5 Setting of computer's IP address

3) Input 192.168.188.253 into IE browser, then pop up the login page, the default login user name: Admin,

Passwords: admin, pls do following P6

HIGH PERFORMANCE INTELLIGENT WIRELESS ROUTER/AP		

软件版本(version) XD3200-AP-V2.0-Build20151204030606

P6 Login

3rd : WEB GUI interface Setting:

1) Status

After login, then P7 Device Status will be showed:

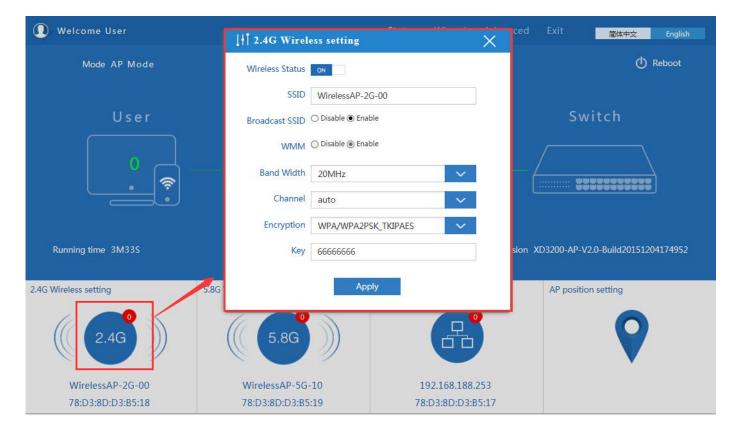


P7: Device Status

In this ceiling wireless AP, the default operation mode is AP mode.

Then in 2.4G Wireless Setting, GUI configuration page showed as below:

User can configure the SSID, password, band width, channel here, then Apply to finish.





5.8G Wireless Setting GUI configuration setting showed as P8:

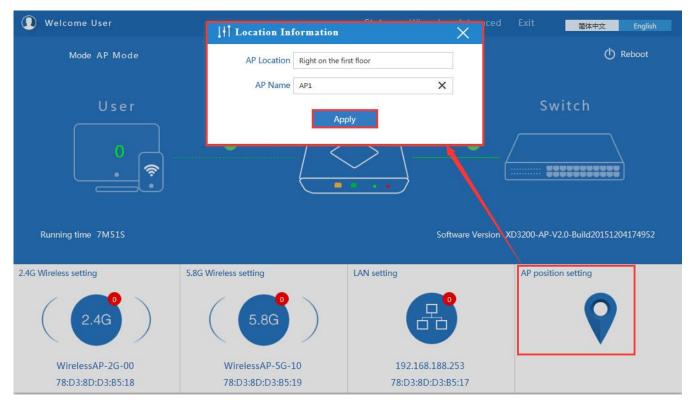
P9 5.8G Wireless Setting

LAN Setting to configure the DHCP or Fix IP



P10 LAN Setting

AP location setting: can mark where the AP set up, and AP name as P11:



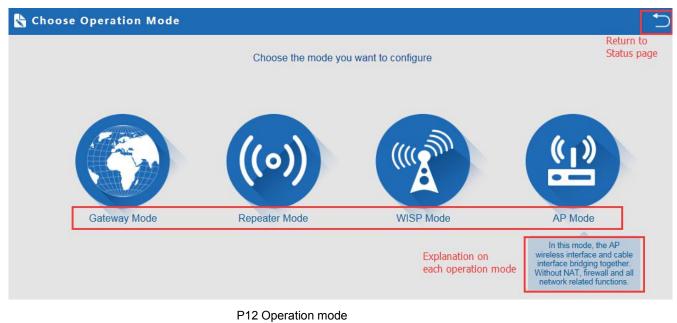
P11 AP Postion setting

2) Wizard Configuration:

Click Wizard in Status page, will pop up following page to configure the operation mode:

There are four operation mode of this ceiling wireless AP, and there are explanation for each operation mode for better

application.



1. Gateway Mode:

Click Gateway mode, will pop up following pictures:

Pls choose the right WAN setting mode, then click next to continue.

First: WAN Settings	Second: Wireless	Third: Complete	1st	
	Static IP	PPPOE(ADSL)	DHCP	2nd
	The currer	it access mode is DHCP,Please click ne	ext to configure.	
	E C			

P13. WAN setting in Gateway Mode

st: WAN Settings	Second: Wireless	Third: Complete	
ireless Settings 2.4G/5.8	G		
2.	4G Wireless Settings 1st	5.	3G Wireless Settings 2nd
2.4GHz WLAN Status	ON 2G wireless analyzer	5.8GHz WLAN Status	ON 5G wireless analyzer
SSID	WirelessAP-2G-00	SSID	WirelessAP-5G-10
Channel	auto	Channel	* 5.765 GHz (Channel 153) 🗸 🗸
Encryption	WPA/WPA2PSK_TKIPAES	Encryption	WPA/WPA2PSK_TKIPAES
Key	66666666	Key	66666666

P14 Wireless Setting in Gateway Mode

When click Next, then will complete the Gateway mode setting and show following picture:

🗞 Complete Settings	∽
First: WAN Settings Second: Wireless Third: Complete	
Congratulate, Settings is completed	

P15 Complete the setting in Gateway Mode



When return to Status, the page showed as follow:

P16 Status in Gateway Mode

2. WiFi Repeater mode

Click WiFi Repeater operation mode in Wizard, then following page will pop up, and choose the right SSID to bridge,

then next.

🗞 Repeater Mode			5
First: Repeater	cond: Wireless Third: Com	nplete	
Wireless Repeater			
Wireless Repeater	2.4G 🗸	Repeater SSID	Scan AP
Authentication	none 🗸		2nd
	Back	Sten AP Sten AP WirelessAP-2G-00 Tobox 780.380.03840.3 Channel: 7 If RSS: -84 dbm Encryption: WMAWA3PSC, TOPActs WirelessAP-2G-00 Tobox 780.380.03840.46 Channel: 7 If RSS: -83 dbm Encryption: WMAWA3PSC, TOPActs WirelessAP-2G-00 Coxes 780.380.03840.46 Channel: 7 If RSS: -83 dbm Encryption: WMAWA3PSC, TOPActs WirelessAP-2G-00 Refresh	d

P17 Repeater Mode

After click Next button, then should configure the wireless settig as follow, then click Next to finish:

🗞 Repeater Mode		
First: Repeater	Second: Wireless	Third: Complete
Wireless Settings 2.4G/5	.8G	
	5.8G Wireless Settings	
5.8GHz WLAN Stat	US ON 5G wireless analyzer	
ss	ID WirelessAP-5G-10	
Chanr	el * 5.765 GHz (Channel 153)	
Encryptic	WPA/WPA2PSK_TKIPAES	
к	ey 66666666	
		Back Next

P18 Wireless Setting in Repeater Mode

Click Return button, will back to Status, show Repeater mode data, show fail or success, and user can configure this

data in this page if required.



P19 Status in Repeater Mode

Pls note, when click wireless relay setting, following page will pop up, you can make change from here easy:

👆 Repeater Mode				5
First: Repeater Sec	cond: Wireless T	hird: Complete		
Wireless Repeater				
Wireless Repeater	2.4G	✓ Repeater SS	SID	Scan AP
Authentication	none	~		
	Back	Next	t	



3. WISP Operation mode:

Click WISP operation mode in Wizard, then will pop up the configure page, pls set the WISP operation mode based on

the stepes showed in picture:

First: Repeater		nd: WAN	Third: Wireless	Fourth:	Complete	
	1st					
Wireless Repea	ter					
	Wireless Repeater	2.4G		2nd Repeater SSID	WirelessAP-2G-00	Scan AP
		5.8G				
	Authentication	WPA/WPA2PSK_TKI	PAES	Key	66666666	5th
		Sci	in AP		- ×.	
			relessAP-2G-00 D3:8D:D3:84:D3 Channel: 7	Choice	4th	
			RSS: -84 dBm Encryption: WPA/WPA2PSK]+01	
			relessAP-2G-00 D3:8D:D3:84:A6 Channel: 7	Choice		
			RSS: -83 dBm Encryption: WPA/WPA2PSK			
			relessAP-2G-00			
			D3:8D:D3:84:EE Channel: 7 RSS: -82 dBm Encryption: WPA/WPA2P5K,	Choice		
		W	relessAP-2G-00		~	
				R	fresh	
			Back	Next	6th	

P21 WISP Mode

Configure the right WAN setting in WISP operation mode, then next.

😽 WISP Mode						5
First: Repeater	Second: WAN	1st Third: Wireless	Fourth: Complete			
	Static IP	PPPOE(AD	SL)	DHCP	2nd	
	The curren	at access mode is DHCP,F	Please click next to config	jure.		
		Back	Next 3rd	1		

P22 WAN setting in WISP mode

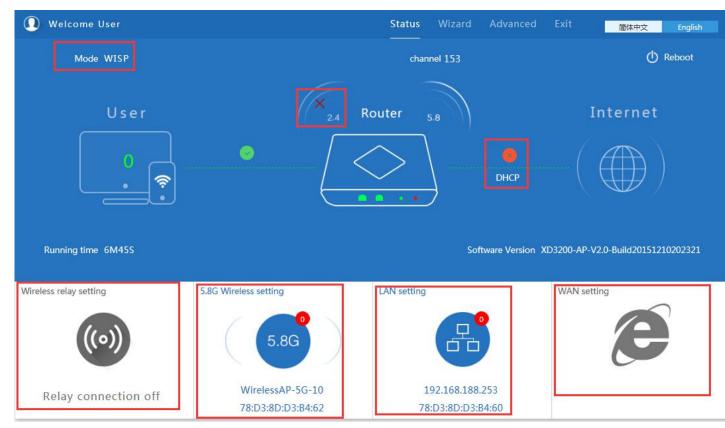
Configure wireless data showed as follow:

and a second		/ireless	Tou	rth: Complete	2	
		19	st			
Vireless Settings						
5G wireless analyzer						
elessAP-5G-10		2nd				
.765 GHz (Channel 153)	\sim					
PA/WPA2PSK_TKIPAES	\sim					
66666						
	5G wireless analyzer elessAP-5G-10 765 GHz (Channel 153) A/WPA2PSK_TKIPAES	5G wireless analyzer elessAP-5G-10 765 GHz (Channel 153) YA/WPA2PSK_TKIPAES	Vireless Settings SG wireless analyzer elessAP-5G-10 765 GHz (Channel 153)	SG wireless analyzer elessAP-5G-10 765 GHz (Channel 153) A/WPA2PSK_TKIPAES	Vireless Settings 5G wireless analyzer elessAP-5G-10 765 GHz (Channel 153)	Vireless Settings SG wireless analyzer elessAP-5G-10 765 GHz (Channel 153)

P23 Wireless Setting in WISP mode

Then complete and back to status, will show the connection fail or success, then can configure the data based on

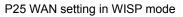
request:



P24 Status in WISP mode

Remark: When click WAN Setting, will pop up following picture:

	PPPOE(ADSL)	
WAN access mode	DHCP	
	Static IP	
	Annalis	
	Apply	



4. AP Operation mode:

Set the wireless data, AP Location info as required, then click next to continue and enter into LAN setting.

After LAN setting, complete the AP mode configuration and back to Status:

First: Wireless	Second : LAN Th	ird:Complete	
eless Settings 2.4G/5.80	ì		
2.4	4G Wireless Settings	5.	8G Wireless Settings
2.4GHz WLAN Status	ON 2G wireless analyzer	5.8GHz WLAN Status	ON 5G wireless analyzer
SSID	WirelessAP-2G-00	SSID	WirelessAP-5G-10
Channel	* 2.442 GHz (Channel 7)	Channel	* 5.765 GHz (Channel 153)
Encryption	WPA/WPA2PSK_TKIPAES	Encryption	WPA/WPA2PSK_TKIPAES
Кеу	66666666	Кеу	66666666
ation Information			
AP Location		AP Name	

P26 Wireless setting in AP Mode

🔓 AP Mode				
First: Wireless	Second : LAN	Third:Complete		
LAN setting				
		Access Type Static IP DHCP		
			- <u></u> 1	
		Back	Next	

P27 LAN Setting in AP Mode



P28 Status in AP Mode

3) Advanced Setting:

In advanced setting, user can check the ceiling AP's firmware version, working status, 2.4G wireless, 5.8G Wireless,

LAN Status,

upgrade firmware, Reset...

Let's Click Advanced Setting in status page, will show return home, Setup Wizard which we showed before.

Let's shown mode in Device Status, 2.4G Wireless, 5.8G Wireless, Network and Management.

III Advanced Set	tings	
🕅 Return home	Status 2.4G Wireless Status 5.8G Wireless Status LAN Status	
😧 Setup Wizard	Status	
🔤 Device Status	Software Version XD3200-AP-V2.0-Build20151210202321	
and 2.4G Wireless	Hardware Version V5.0	
sıl 5.8G Wireless	Uptime 6M53S	
Network		
💾 Management		

P29 Device Status

Device Status: In this page, mainly to check the ceiling AP's status in firmware version, 2,4G Wireless, 5.8G Wireless

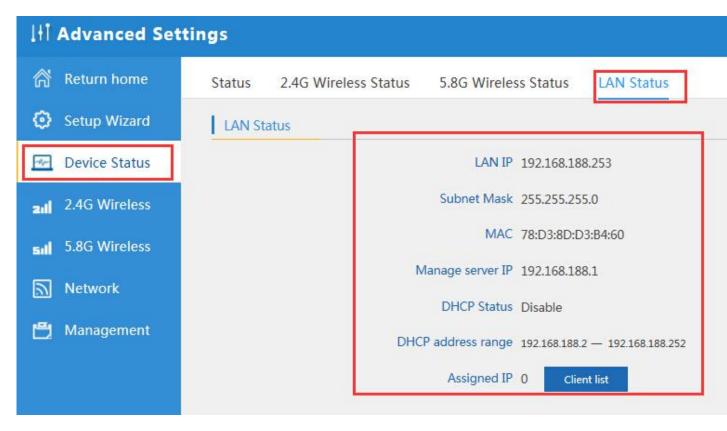
and LAN status:

141	It Advanced Settings			
â	Return home	Status 2.4G Wireless Status 5.8G Wireless Status LAN Status		
0	Setup Wizard	2.4G Wireless Status		
	Device Status	2.4G Wireless Status Enable		
zıl	2.4G Wireless	SSID WirelessAP-2G-00		
sıtl	5.8G Wireless	MAC 78:D3:8D:D3:B4:61		
2	Network	Channel 7		
ð	Management	Encryption WPAWPA2_TKIPAES Connected Users 0 Client list		

P30 2.4G Wireless Status

LHT .	H Advanced Settings		
ര്	Return home	Status 2.4G Wireless Status 5.8G Wireless Status LAN Status	
٢	Setup Wizard	5.8G Wireless Status	
	Device Status	5.8G Wireless Status Enable	
ail	2.4G Wireless	SSID WirelessAP-5G-10	
sıl	5.8G Wireless	MAC 78:D3:8D:D3:B4:62	
	Network	Channel 153	
Ē	Management	Encryption WPAWPA2_TKIPAES	
		Connected Users 0 Client list	





P32 LAN Status

2.4G Wireless Setting:

In this part, will show the 2.4G Basic Setting, Virtual AP, Access control and Advanced Setting:

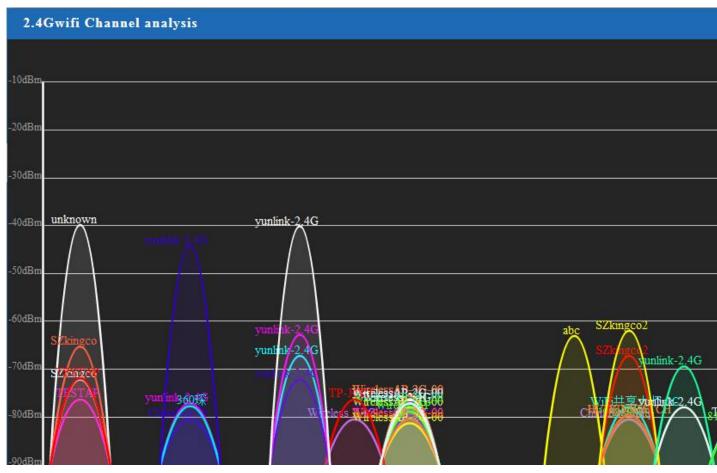
LHT .	It Advanced Settings				
Â	Return home	2.4G Basic Settings 2.4G Virtual AP 2.4G Access Control 2.4G Andvanced Settings			
٢	Setup Wizard	Wireless Basic Settings			
<u></u>	Device Status	Wireless Status ON 2G wireless analyzer			
zıl	2.4G Wireless	SSID WirelessAP-2G-00			
sil	5.8G Wireless	Broadcast SSID O Disable Enable WMM O Disable Enable			
	Network	Channel			
ß	Management	Band Width 20MHz			
		Channel * 2.442 GHz (Channel 7)			
		Encryption WPA/WPA2PSK_TKIPAES			
		Key 66666666			
		Apply			

P33 Basic Setting in 2.4G Wireless

2G Wireless Analyzer: Mainly to analyze the AP's singal strength in some channel, to make user more easy to choose

the right channel

and avoid the wifi interface.



P34 Wireless Analyzer

Virtural AP:

There are 3 virtural AP in 2.4G wireless, if need virtural SSID, then users can configure it showed in following picture:

II Advanced Set	tings
Return home	2.4G Basic Settings 2.4G Virtual AP 2.4G Access Control 2.4G Andvanced Settings
🙆 Setup Wizard	2.4G Virtual AP
🔤 Device Status	Virtual VAP1 Virtual VAP2 Virtual VAP3
ail 2.4G Wireless	Wireless Status
5.8G Wireless	SSID WirelessAP-2G-01
Network	Broadcast SSID O Disable Enable
💾 Management	WMM O Disable Enable
	Encryption none 🗸
	Apply

P35 Virtual AP

2.4G Access Control: Mainly show MAC allow or deny:

III Advanced Settings				
ĥ	Return home	2.4G Basic Settings 2.4G Virtual AP 2.4G Access Control 2.4G Andvanced Settings		
٢	Setup Wizard	Wireless Access Control		
<u></u>	Device Status	Access Control MAC Acess All Apply Allow Listed		
zıl	2.4G Wireless	Deny Listed		
sil	5.8G Wireless			
	Network			
ð	Management			

P36 MAC Access Control

2.4G Advanced Settings:

In this page, will show the regional, RF Power, Max user access...

1HT	III Advanced Settings				
ര്	Return home	2.4G Basic Settings 2.4G Virtual AP	2.4G Access Contro	2.4G Andvanced Settings	
٢	Setup Wizard	2.4G Advanced Settings			
<u></u>	Device Status	Reg	ional China	Channel(1-13)	
zıll	2.4G Wireless	M	ODE 802.11B/G	~	
sıll	5.8G Wireless	RF Output P	ower 100%	× .	
	Network	Packet Three	shold 2346	(256-2346)	
r#1	Management	RTS Three	2010	(256-2346)	
		Ack Timeout co	ontrol 64	(0-255)us	
		Beacon int	erval 100	(100-1000)ms	
		MAX	User 64	(Range 0-64 0 not limited)	
		Coverage Three	shold -90	(-65dBm~-90dBm)	
		Aggregation	ON	Short GI ON User isolation OFF	
			Арр	ply	
			Арр	bly	

P37 Advanced Setting

^{5.8}G Wireless Setting: Almost same as 2.4G Wireless:

H	Advanced Se	ttings	
Â	Return home	5.8G Basic Settings 5.8G Virtual AP 5.8G Access Control 5.8G Advanced Settings	
٢	Setup Wizard	Wireless Basic Settings	
<u>-</u>	Device Status	Wireless Status ON 5G wireless analyzer	
zıl	2.4G Wireless	SSID WirelessAP-5G-10	
sil	5.8G Wireless	Broadcast SSID O Disable Enable	
	Network	WMM O Disable Enable Channel	
Ð	Management	Band Width 80MHz 🗸	
		Channel * 5.765 GHz (Channel 153)	
		Encryption WPA/WPA2PSK_TKIPAES	
		Key 66666666	
		Apply	

P38 5.8G Wireless Setting

Network setting:

In this page, mainly to show the LAN setting and VLAN as follow:

H Advanced Settings		
ሸ Return home	LAN Settings VLAN	
😧 Setup Wizard	LAN Settings	
Methodology Device Status	Access Type Static IP DHCP	
ail 2.4G Wireless		
sıll 5.8G Wireless		
Network		
💾 Management		
	Apply	
	Apply	

P39 Network Setting

I LAN Settings VLAN Setup Wizard VLAN I 24G Wireless VLAN-ID(2-4094) AP VAP	H Advanced Settings								
Management VLAN-ID(2-4094) Image: Comparison of the compari	🔗 Return home	LAN Settings VLAN							
VLANHD(2-4094) Ap VAP1 VAP2 VAP3 AP VAP1 VAP2 VAP3 2.4G Wireless Image: Comparison of the comparison	🙆 Setup Wizard	VLAN							
2.4G Wireless Image: Control of the second seco	Device Status		VLAN-ID(2-4094)				 201010		
Image: Single				1			 	 	
SAG Wireless Image: Sag wireless	2.1 2.4G Wireless								
Management Imagement	5.8G Wireless								
Network Image: Constraint of the second									
Management Image: Constraint of the second seco	Network								
	·=· · ·								
				-			-	 	
						melu			
					-	Apply			

P40 Tag VLAN Setting

Management:

In this part, show the system time, Logs, upgrade firmware, system, user info.

And we show System time, how to upgrade firmware and system page to users:

Iti Advar	nced Settings	
ሸ Return	home System Time Logs Upgrade Firmware System User	
😧 Setup	Nizard System Time	
🛃 Device	Status System Time 2015-10-30 11:16:34 Sync with host	
zıli 2.46 W	ireless Choose Time Zone Beijing, Chongqing, Urumqi, Re-Hong Kong, Taiwan;	
sıll 5.8G W		
Netwo	rk Equipment timing Auto restart 23:00	
💾 Manag	ement	
	Apply	

P41 System Time

LHT .	Advanced Set	tings				
ര്	Return home	System Time Logs	Upgrade Firmware	System User		
0	Setup Wizard	Upgrade Firmware	2	nd		
<u></u>	Device Status	Softwa	are Version XD3200-AP-V2.	0-Build20151210202321	3rd	4th
aıll	2.4G Wireless	c	Choose File		Browse	Upgrade
sılİ	5.8G Wireless					
	Network		Note Odo not power	r off the device during the upload	because it may crash the s	system! 5th
Ð	Management 1	st				

P42 Firmware Upgrade

II Advanced Se	ttings
Return home	System Time Logs Upgrade Firmware System User
Setup Wizard	Save/Reload Settings
Device Status	Backup Backup
all 2.4G Wireless	Restore Browse Restore
sıll 5.8G Wireless	Deset Default Reset Default Reboot Reboot
Network	Reboot
🗂 Managemen	

P43 System	info
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4th Share Internet and Obtain IP address automatically

Set computer's TPC/IP as Obtain an IP address automatically, Obtain DNS server address automatically as

following picture showed.

the computer will obtain the IP address from router or base station to get Internet.

➡本地连接 Status	上本地连接 Properties ?区	Internet Protocol (TCP/IP) Properties 🛛 🛛 🛛
General Support	General Advanced	General Alternate Configuration
Connection	Connect using:	You can get IP settings assigned automatically if your network supports
Status:	Qualcomm Atheros AR8151 PCI-E Gig Configure	this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Duration: Speed:	This connection uses the following items:	Obtain an IP address automatically
	Client for Microsoft Networks	O Use the following IP address:
	File and Printer Sharing for Microsoft Networks Ros Packet Scheduler	IP address:
Activity	Terret Protocol (TCP/IP)	Subnet mask:
	Install Uninstall Properties	Default gateway:
Ser	Description	 Obtain DNS server address automatically
Packets:	Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication	O Use the following DNS server addresses:
	across diverse interconnected networks.	Preferred DNS server:
	Show icon in notification area when connected	Alternate DNS server:
Properties Disat	Notify me when this connection has limited or no connectivity	Advanced
	OK Cancel	OK Cancel

Trouble Shooting:

F 1 The Failure phenomenon and solution

Failure phenomenon	Solution							
SYS Indicator off	Pls make sure the PoE module connection is right. POE Port							

	connect with AP, LAN port connect with computer
Can't land to Wireless AP through Web page	Pls check the IP address of computer and Wireless AP to see whether they are in same networking segment, The method is click "start"-"Run" input"cmd", ping 192.168.188.253 to test the Wireless AP connectivity. Reset Wireless AP and load it again; Pls make sure the IP address 192.168.188.253 is not occupied by other device in Wireless AP's networking; Check computer and cable problem, recommend to use 10/100M UTP unshielded cable; Clean up Arp binding from "Start"-"Run" input"cmd" arp –d Clean the IE Brower's temporary files and Cache file。
Wireless AP can't connect with AP (the status display unconnected)	Try to scan the avaliable wireless networking again; Make sure the Wireless AP's wireless standard (11b/g/n, 2.4G) is correct; The Security and passwords are matched between Wireless AP and AP; The signal strength of AP is too weak to connect, should be more than -75dBm;
Can't scan the wireless AP	Scan it several times more; Make sure there are 5G signal existed. Reset the Wireless AP, scan it again after Wireless AP restart;
The connection of Wireless AP and AP is success, but the computer can't share internet	Pls Check the computer's IP address and DNS setting. If it is dynamin, set the network card as automatically obtain. If it is static IP, pls contact with ISP for correct IP address and DNS address.
How to Reset Wireless AP	Press the "Reset" button more than 15 seconds after power on. The Wireless AP will restore factory default after the Wireless AP restart.

You would like to get more information ? Feel free to let us a comment http://www.gigamedia.net/contact.php

Or please write us an email to :support.actifs@conectis.com