IO-Power Outdoor WiFi MIMO AP

APM-101R(H) / APM-102R(H) / APM-103R(H)

7 Steps Quick Installation AP Link AC PtP Guide

Step 1: System Login (Default IP address of wireless device 192.168.1.1)

Set up the IP address of LAN in your computer, set 192.168.1.X (Fixed IP) (EX:192.168.1.100)

Remind: IP address of Computer and Wireless device must be the same network segment。

- A. Enter the web browser http://192.168.1.1
- B. Enter the account and password, Enter the system (Default Account: admin, Default Password: admin)

Step 2: Change IP address of wireless device

A. System Setup / Network Setup: Setting the IP address of Wireless device。

IP address must be change 192.168.1.1 to another, to avoid conflict with other IP address,

For example 192.168.21.1. The 21 is network segment.

vstem Ope	protion Mode			
	FIALIUII MUUG			
Mode :	Bridge	Mode :	Bridge 💌	
P Setup				
IP Address :	192.168.1.1	IP Address :	192.168.1.1	
Subnet Mask :	255.255.255.0	Subnet Mask :	255.25 <mark>5.25</mark> 5.0	
Default Gateway :	0.0.0.0	Default Gateway:	0.0.0.0	
P Setup				
IP Address :	192.168.21.1	IP Address :	192.168.21.1	
Subnet Mask :	255.255.255.0	Subnet Mask :	255.255.255.0	
oublict mask.	200.200.200.0	Subiret Masik'	200.200.200.0	

Reminds: When the IP address has been changed(EX.192.168.21.1), Be sure to change to the same network segment of your computer(EX.192.168.21.99), Then keep up setting.

Point to Point Wireless Network Setting





IO-Power Technology Co., Ltd 勁電科技有限公司 1F., No.100, Jinzhu Rd., North Dist., Hsinchu City 30055, Taiwan <u>http://www.io-power.com.tw</u> www.io-power.com.cn e-mail: <u>io-power@io-power.com.tw</u> Tel:+886 3 5429395 Fax:+886 3 5357297

p 3: Setting Wireless Access Point (Access Point=AP) Radio Setup Wireless Wireless Utility Status Logout(admin) dio Setup WLAN Setup Wireless Security MESH Setup WMM Setup Bandwidth Control							
RADIO - 1		Select the wirel	ess transmit mode 8	302.11na HT40 Plus			
Wireless Band :	802.11na HT40 Plus	Wireless Band :	802.11na HT40 Plus 💌]			
Channel :	52 CH - 5260MHz	Channel:	52 CH - 5260MHz 💌				
Transmission Power	: Full	Transmission Power	Full	Select Channel/Frequency			
Antenna Number :	2	Antenna Number:	2 -	52CH – 5260MHz			
Short Guard Interval :	On	Short Guard Interval	On(400ns) 💌				
Aggregation :	Enable	Aggregation :	Diabled 🔍 Enable 🔍				
Distance(x 100m) :	10	Distance(x 100m)	10				
			Set the wireless re	sponse from the parameters each			
			100m represent 1	Unit, Distance less than 1000 m, s			
		Cancel Apply	10parameters				
	CORVENCET //	Press Apply	CO (TD ALL BICHTS BES	55/50			

Exp: Red frame option must be set。 Other frame option, set by default do not need to change.

Step 4: Setting Wireless Access Point (Access Point=AP) WLAN Setup

Exp: Wireless AP (Access Point = AP) has to set a name (SSID), for other wireless devices (Wireless Station = AP Client = AC). PTP_AP1_1 is the name of wireless device this time (SSID).

ADIO-1WL	AN Setup	Wireless	Wireless station SSID setup		
SSID :	PTP_AP1_1 Broadcast	SSID :	PTP_AP1_ PTP_AP1_1	🗹 Broadcast 💽 💽	
Enable	Yes	Enable	No 🔘 Yes 💌		
WLAN Mode :	Access Point	WLAN Mode :	Access Point	Select wireless mod	
RTS	2312	RTS	2312	Choose Access Poi	
Fragmentation :	2346	Fragmentation	2346		
Data Rate :	Auto (Limited)	Limited Data Rate :	Auto 💌 0 kops	Fixed	
Multicast Rate :	Auto	Multicast Rate :	Auto 💌		
Rate Adaptation	Default	Rate Adaptation	Default 📼		
VLAN :	ID :0 Priority :0	VLAN :	ID : 0 Priority 0		
Client Numbers :	64	Client Numbers :	64		
Client Isotation :	OII	Client Isolation	Olf On O		
Bandwidth Profile :	0-Disable	Bandwidth Profile :	0-Disable 💌 Edit Bandwidth Profile		

Exp: Red frame option must be set。 other frame option, set by default do not need to change.



Step 5: Setting Wireless Station (Wireless Station=AC) Radio Setup

** Remember , IP address of second wireless device must be set 192.168.21.2**

		Select wire	less band, AC and	d AP transmission			
RADIO - 1		nee	need the same frequency mode				
Wireless Band :	802.11ng HT20	Wireless Band :	802.11na HT40 Plus				
Channel :	1 CH - 2412MHz	Channel:	Auto 💌	Select wireless channel/frequence			
Transmission Powe	r : Full	Transmission Power	Full 💌	Recommend starting set the same			
Antenna Number :	2	Antenna Number:	2 💌	channel to accelerate connection			
Shorl Guard Interval	: On	Short Guard Interval	On(400ns) 💌	successful and then change to Auto			
Aggregation :	Enable	Aggregation :	Diabled O Enable 🤨	helps to adjust AP channel, AC ca			
Distance(x 100m) :	0	Distance(x 100m):	10	Automatically change the channel t			

EXP: Red frame option must be set. other frame option, set by default do not need to change.

Step 6: Setting Wireless Station (Wireless Station=AC) WLAN Setup

Exp: Wireless AC (Wireless Station = AC)connect with wireless access point(Access Point = AP) has to set a name (SSID), for other wireless devices, So that wireless can connect to each.

RADIO-1 WLAN	Setup Setting the			
and the second		wireless AP's SSI	D . enter SSID as PT	TP AP1 1
SSID	PTP_AP1_1 Broadcast	SSID	PTP_AP1_ PTP_AP	1_1
Enable :	Yes	Enable	No 💛 Yes 🔍	Select wireless mode
WLAN Mode :	Access Point	WLAN Mode	Wireless Station	Wireless Station
		AP MAC Address :	00.00.00.00.00	
RTS.	2312	RTS:	2312	Strongly recommended
Fragmentation :	2346	Fragmentation .	2346	Do not fill the AP Mac address,
Data Rate :	Auto (Limited)	Limited Data Rate :	Auto 💌 0	avoid lock the AP, It will leads t

PTP_AP1_1 is the name of wireless device this time(SSID).

EXP: Red frame option must be set。 other frame option, set by default do not need to change.



Step 7: Test the Point to Point wireless of AP and AC connection is complete

A. Check the Ping of the Wireless devices connection

1	条統管理員:命令提示字元 - ping 192.168.21.1 -t	_ D _ X
	Microsoft Windows [版本 6.1.7601]	^
	Copyright (c) 2009 Microsoft Corporation. All rights reserved.	E
	C:\Users\IO-Power>ping 192.168.21.1 -t	
	Ping 192 168 21 1 (使田 32 位元组的增料):	
	回覆自 192.168.21.1: 位元組=32 時間=1ms TTL=64	
	回覆自 192.168.21.1: 位元組=32 時間=1ms TTL=64	
	回發自 192.168.21.1: 位元組-32 時間-2ms IIL-64 回發自 192.168.21.1: 位元組=32 時間=1ms IIL-64	
	回藜首 192.168.21.1: 位元組=32 時間=1ms TTL=64	
	回發目 192.168.21.1: 位元組=32 時間=1ms TTL=64 回露自 192.168.21.1: 位元组=32 時間=1ms TTL=64	
	回覆目 192.168.21.1: 位元組=32 時間=1ms TTL=64	
	回覆自 192.168.21.1: 位元組=32 時間=1ms TTL=64	
	回波日 172.166.21.1. 区/U組-52 时间J=1MS 11L=64	

B. From the client side of wireless AC (Wireless Station=AC) get into the website of device , in Utility/Site Survey, scan the AP signal of the environment。

		Utility	Status	Logout(admin)				
Ping	RSSI Calc. Fresnel Zone	Ant. Alignment Tool MESH	Tool Site	Survey				
Sit	e Survey							_
370	85510	ESSID			8881	Giannel	Eno	
Sit	e Survey	AC scan AP's SSID		AP RSSI Signa	al /	AP channel	Encryptio	n Mode
No	BSSID	ESSID			RSSI	Channel	Enc	
1	BC:99:BC:00:05:0B	PTP_AP1_1			-44dBm	52	Open	
2	BC:99:BC:00:05:71	jim33ap			-66dBm	52	Open	J

C. From the client side of wireless AP (Wireless Station=AC) get into the website of

device, in Status / Nodes (Station Side) scan the AP signal of the environment.



Please download manual from internet: http://www.io-power.com/Product%20User%20Manual.htm

Form No. : IOP-OANI-001-001 Rev. : A.1