



Ensure your Access Point is in AP MODE



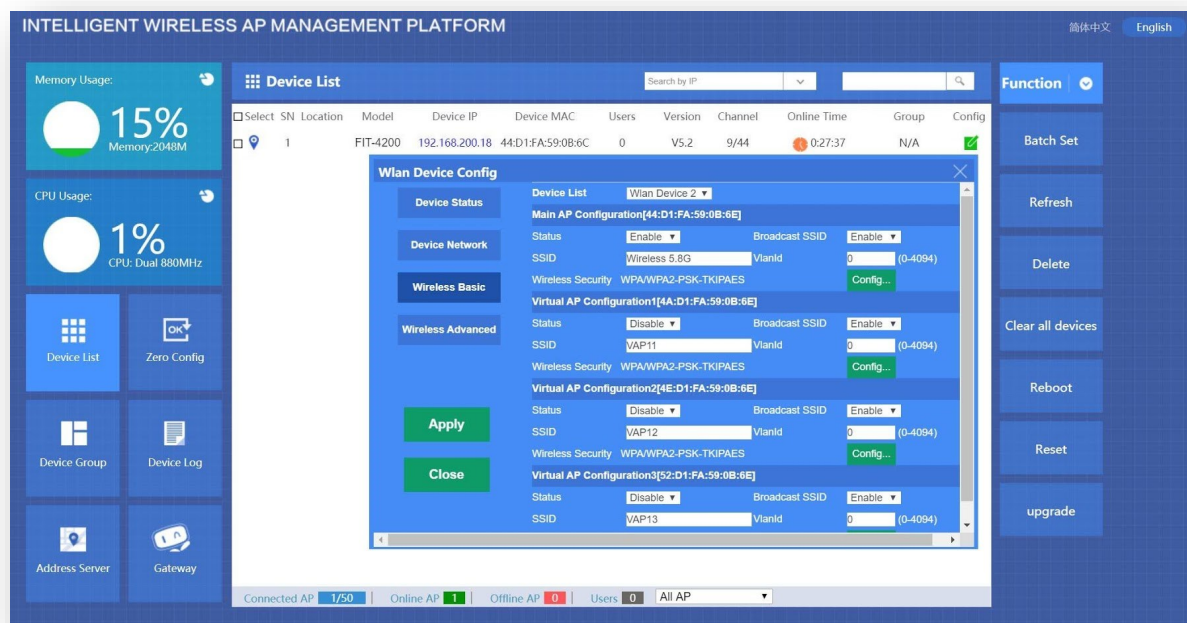
Set-up Guide PROAPG4 Gigabit WLAN AC Controller



The PRO Wi-Fi controller is a Gigabit High Performance none PoE WLAN AC controller with AC gateway and authentication functions to help easily manage large numbers of the PRO Wi-Fi range of In-Wall, ceiling and CPE range of Wireless Access points.

You can combine with our PoE switches to provide PoE power and an increased number of outlets.

Ideal for larger environments such as hotels, schools, shopping centers and restaurants.





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Multi-Wan Gigabit High speed WLAN AC controller

1x Gigabit WAN port, 4X Gigabit LAN ports for high speed transfer.

Auto detect & manage up to 32 Access points and up to 80 users

Auto detect all access points (Must be in **FIT** mode) to configure and manage easily , all plug and play.

Efficient Internet surfing with network optimization.

- Support for seamless wireless roaming and auto Wi-Fi channel analysis.
- Access point RF power control is adjustable via the interface to reduce interference and manage more efficient roaming for improved wireless network connectivity.
- Supports removal of weak signal Access points. Smart recognition and the ability to automatically delete or disable the AP with a low (customizable) signal level.
- Supports load balancing, based on the number of users connected.
- The controller can allocate users to different Access points based on the policies configured. Supports AC and AP in layer 2 and layer 3 networks AC across NAT to remote manage all wireless Access points.

Supports multiple Authentication methods.

- Wechat Auth:- Input Wechat ID and password.
- Onekey:- No authorization, simple click Onekey auth button.
- SMS Auth :- Works with SMS gateway , receive authorization code by text message!
- Member auth:- By Excel sheet or radius server.
- Facebook:- Binding with Facebooks identification.
- Google:- Input Google ID and password.

Multi Security Defense Modes

- Broadcast storm suppression.
- DHCP defence.
- ARP defence.
- MAC filter defence.



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Connecting to the gateway

Change your IP on device to static with these settings:

IP address 192.168.10.10

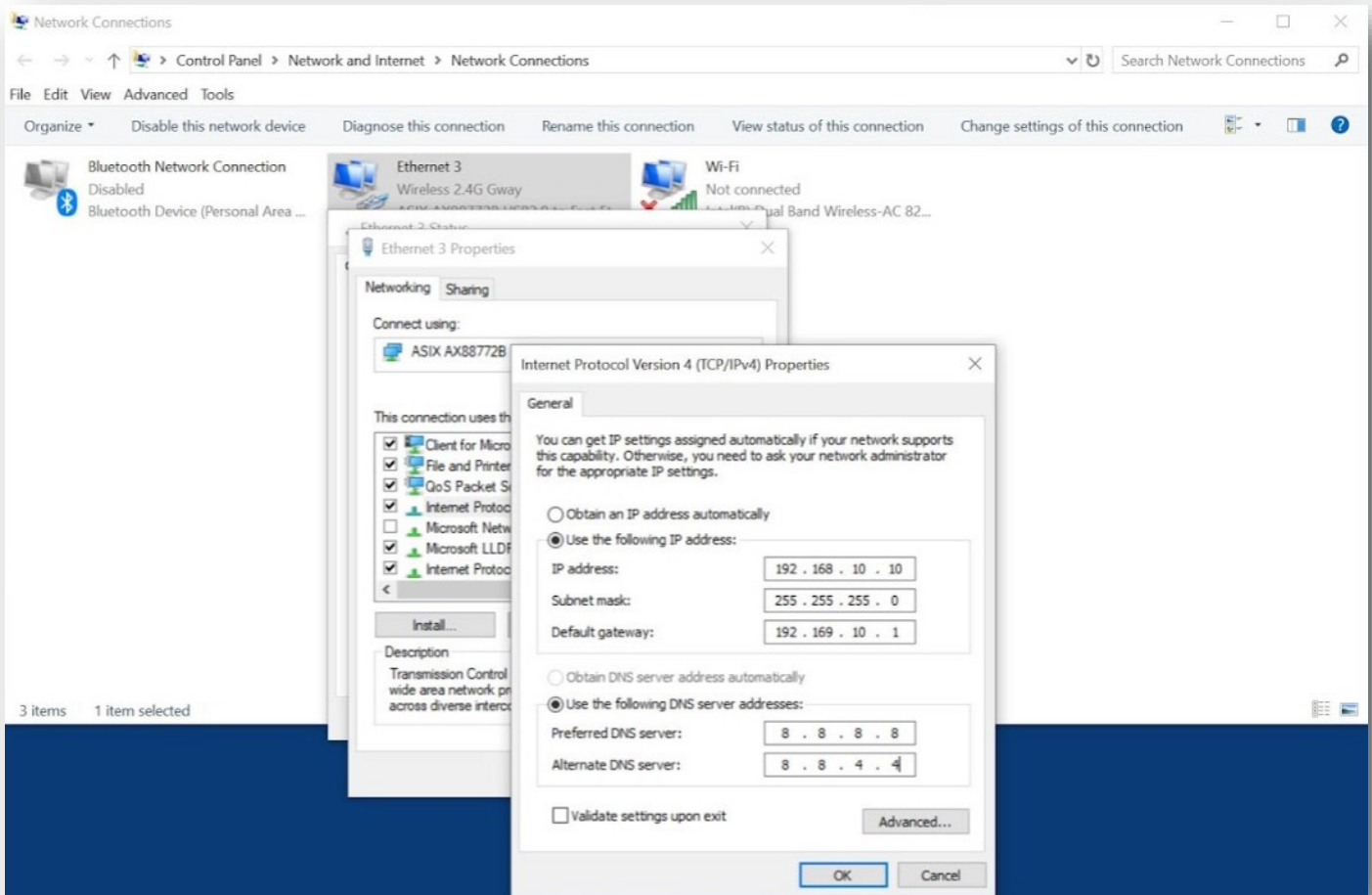
Subnet mask 255.255.255.0

Default gateway 192.168.10.1.

Connect to the Gateway login on your browser by typing 192.168.10.1

Username is admin

Password is admin



The Access Points needs to be in **FIT** AP mode for the gateway to be able to control them.  **Fat AP**

Clicking FAT AP in the Home screen of the Access Point will set the operating mode to FIT AP ready for Gateway operation. Another way of switching between modes on the access point is by entering the URL: - *IPNumberofAccessPoint/mode_switch.html* into your browser.



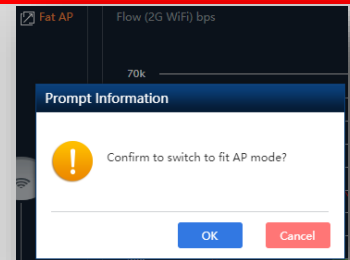
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Ensure that all of the Access points you wish to connect to the gate way are set as below.

1. In AP mode (Default mode is Gateway!) **Operation Mode** **AP Mode**
2. In **FIT** AP mode (Default is FAT) **Fat AP**
3. Get IP from AC selected **IP Mode** **Get IP From AC**



INTELLIGENT WIRELESS AP MANAGEMENT PLATFORM

Memory Usage: 15% (Memory: 2048M)

CPU Usage: 1% (CPU: Dual 880MHz)

Device List

Select	SN	Location	Model	Device IP	Device MAC	Users	Version	Channel	Online Time	Group	Config
<input type="checkbox"/>	1		FIT-4200	192.168.200.18	44:D1:FA:59:0B:6C	0	V5.2	9/44	20:40:32	N/A	<input checked="" type="checkbox"/>

Function: Batch Set, Refresh, Delete, Clear all devices, Reboot, Reset, upgrade

Connected AP: 1/50 | Online AP: 1 | Offline AP: 0 | Users: 0 | All AP

Plug the access point into the Gateway (once the settings have been set as above)

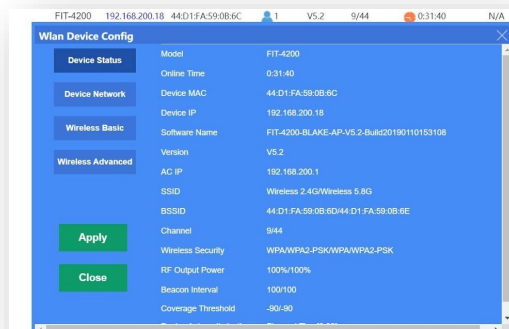
After 2 minutes you will see the Access point you plugged in appear.

(You may have to refresh the screen several times to see the AP appear in the device list)

☐ 1 FIT-4200 192.168.200.18 44:D1:FA:59:0B:6C 0 V5.2 9/44 20:40:32 N/A ☒

By clicking the Device IP (in blue) you can access the AP directly (login with default password of admin)

Click the green  square to access the WLAN Device Configuration screen.





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The screenshot shows a web browser window titled "Wlan Device Config". On the left is a sidebar with four tabs: "Device Status", "Device Network" (which is selected and highlighted in dark blue), "Wireless Basic", and "Wireless Advanced". The main content area has a blue background. At the top, "IP Setting" is set to "DHCP" via a dropdown menu. Below this, "IP Address" is configured as "192 . 168 . 200 . 18" and "Subnet Mask" is "255 . 255 . 254 . 0". At the bottom left of the main area are two green buttons: "Apply" and "Close". A "Device Network" button is also visible at the bottom left of the browser window frame.

Device network:- The area where you enter the IP allocation method that you will be using for all of the Access Points that are connected to the gateway:

DHCP (IP is automatically allocated by the Gateway).

Static (IP is set by the user and not allocated automatically).

The IP set can be seen in the device list screen under Device IP.

Default is DHCP with IP 192.168.200.18 and Subnet Mask of 255.255.254.0



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Wireless Basic

In wireless basic you can configure the AP connected to the gateway.

In the device list drop down box WLAN Device 1 is 2.4G and the WLAN Device 2 is 5G.

The Config button allows you to define:-

The security protocol (Default is WPA2PSK)

Main AP Configuration[44:D1:FA:59:0B:6D]

Status: Broadcast SSID:

SSID: VlanId: (0-4094)

Wireless Security: WPA/WPA2-PSK-TKIPAES

The Key Length (Default WEP64 Bit)

The Password (Key) format (Default is ASCII)

The Encryption (Default is TKIP)

The Wi-Fi Password (Default password set is 66666666, eight sixes)

Wireless Advanced

Wlan Device Config

Device Status: Wlan Device 1

Mode: 802.11B/G/N 20MHz

Channel: 9 [2.462 GHz]

Client Isolation: Disable

Fragment Threshold: 2346 (256-2346)

RTS Threshold: 2347 (1-2347)

Beacon Interval: 100 (50-1024)ms

Aggregation: Enable

ShortGI: Enable

Rev Option: 12

Coverage Threshold: -90 (-65dBm~-95dBm)

Max Station: 64

Here you can set the Wi-Fi standard, the channel as well as other Wi-Fi Advanced settings. Always check that the Wi-Fi channel is free by using a Wi-Fi analyses app.

If you are unsure please leave setting to default.

Batch Set

Batch Set

Function Select: Txpower/Channel

Wlan Device 1RF Output Power	<input checked="" type="radio"/> 100%	<input type="radio"/> 75%	<input type="radio"/> 50%	<input type="radio"/> 25%	<input type="radio"/> 12.5%
Wlan Device 2RF Output Power	<input checked="" type="radio"/> 100%	<input type="radio"/> 75%	<input type="radio"/> 50%	<input type="radio"/> 25%	<input type="radio"/> 12.5%
Wlan Device 1Channel(2.4G)	1 [2.412 GHz]				
Wlan Device 1Channel(5.8G)	149 [5.745 GHz]				
Wlan Device 2Channel(2.4G)	11 [2.462 GHz]				
Wlan Device 2Channel(5.8G)	149 [5.745 GHz]				

Batch set allows you to quickly select the Power output of 2.4G & 5G on each device and select the channel they will TX on all from the one page. This will be sent out to all access points connected.



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Smart QoS

The screenshot shows the 'Smart QoS' configuration page. It has a sidebar on the right with buttons for 'System', 'DDNS', and 'Smart QoS'. The main content area is divided into two sections: 'Qos Basic Settings' and 'Qos rule setting'.

Qos Basic Settings:

- Status: ☒ Enable ☐ Disable
- Upload:
- Download:
- Apply button

Qos rule setting:

- IP Address Range: ☐ 192.168.10. ~ 192.168.10.
- MAC Address: ☐ Scan MAC
- Mode: ☒ Shared ☐ Exclusive
- Upload: Kbps
- Download: Kbps
- Max bandwidth(Decimal point is not allowed)
- Mark:
- (Double-click the selected items to modify the settings, QoS allows you to add up to 8 rules)

At the bottom, there are tabs for 'IP Address Range', 'MAC Address', 'Mode', 'Upload', and 'Download'.

Scan MAC Pop-up Window:

MAC	IP Address
00:50:b6:1d:6c:46	192.168.10.11
04:69:f8:4b:90:ae	192.168.10.57
2c:0e:3d:60:a5:b7	192.168.10.58
44:d1:fa:59:0b:6c	192.168.10.74

Quality of Service (QoS) technology helps prevent unequal distribution of resource.

QoS takes each client's specific needs into account.

For example if someone is using Netflix, VoIP, YouTube that user data gets priority.

QoS, also known as traffic shaping, assigns priority to each device and service operating on your network and controls the amount of bandwidth each is allowed to consume based on its mission.

In Smart QoS you can assign priority to a specific device using its IP or MAC address.

User

The screenshot shows the 'User' settings page. It has a sidebar on the right with buttons for 'System', 'DDNS', and 'Smart QoS'. The main content area is titled 'User Settings'.

User Settings:

- User Name:
- Password:
- Confirm Password:

Select a username and the password that you wish to use to login into the Gateway if you wish to change this.

Default Username is admin

Default Password is admin



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Item		Parameter
Standard Protocol		IEEE 802.3、IEEE 802.3u
QTY of manageable AP		Default: 200pcs, Max: 300pcs
CPU		MT7621, 880MHz
FLASH		128Mb
DDR3		DDR3 4096Mb
Power Consumption		< 5W
Interface	LAN port	Four 10/100M/1000M RJ45 port (Auto MDI/MDIX)
	LAN/WAN port	1 LAN/WAN port, Default is LAN port, WAN port when open WAN mode
LED Indicator	Power	Adapter
	Run	System status
Demension (L x W x H)		440mm x200 mm x 45mm
Cooling		Nature cooling + Fan cooling
Working environment		Working temperature: 0°C~40°C
		Storage temperature: -40°C~70°C
		Working Humidity: 10%~90%RH (No condensation)
		Storage Humidity: 5%~90%RH (No condensation)
Power		100-240V~ 50/60Hz