

Instructions for PROAPW300 & 750

Plug And Play Or Get Technical



- 1. Take off the cover of 86 size cassette (if no cover, then ignore it)
- 2. Plug the Ethernet cable in the WAN port of AP .
- 3.Match the AP and cassette through the screw hole ,and plug in screws to fix it, please do not make the screw too tight.
- 4. Cover the cassette to finish.



Default Data:

- Management IP address: 192.168.188.253
- Login Password: admin
- Default Wi-Fi password 4wG7cZXd
- WAN: Ethernet Port, connect with router, LAN: Forward port onto local network.
- DC Input: Is 48V
- AP is FAT (Default) but can also operate in FIT mode
- Reset: Press 10 seconds to revert to factory default data LED Indicator: to show the working status of 2.4G, 5G and Power PoE Ports: Work with 48V equipment to supply Ethernet and 48V PoE Power These instructions presume you have already gone through the basic setup in our quick setup guide.

If the Access Point is still in its default **Gateway** mode, then connection is easier via Wi-Fi. If you are using Apple products simply scan the QR codes below with your Tablet. The 1st QR code connects to the Wi-Fi and the 2nd QR code connects to the Login screen. This can sometimes work with Android depending on the QR code app and the Tablet.



If you are in Gateway mode on the AP and connected to the Access point by Wi-Fi, then you can find the login screen by going to 192.168.188.253 on your Internet browser.

NOTE:-

Due to the Browser Cache process on PC please be aware that we advise to refresh any screen before working on settings.

Usually a "force refresh" is enough.

Chrome: Press the following key combination: Shift + Ctrl + F5 IE: Press the following key combination: Ctrl + F5 Safari On PC: Ctrl + F5 or on Apple MAC: CMD + R

Alternatively, use the Chrome browser in Incognito mode can also reduce browser Cache issues. Please see <u>https://www.refreshyourcache.com</u> for details on the Cache process.



Using Windows PC

- 1. Confirm the PoE port on the PSU is 48V
- 2. By default, the AP is in Gateway mode you can connect to the device by joining its Wi-Fi network and using the default IP 192.168.188.253
- If you have set the device in AP mode you will need to connect the devices LAN Port with PC, set static IP on PC to 192.168.188.250 and set the Gateway to the default IP address of 192.168.188.253. (as below) Open browser, input AP IP address 192.168.188.253 to log into the WEB GUI using the default password of admin.

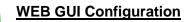
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$\leftarrow \rightarrow$	🕤 🛧 👰 « Network and Interne	et > Network Connections	ٽ ~	Search Net	work Connecti	ions 🔎
	Disable this network device hernet Properties	Diagnose this connection	Rename this connecti	on »	<u>≡</u> • - ▼	• •
Netwo	orking	net :uk.local R) 82570	W Gigabit Net			
Co	Internet Protocol Version 4 (TCP/IP)		×			e
	General					[
Th E E E	You can get IP settings assigned au this capability. Otherwise, you need for the appropriate IP settings.	tomatically if your network supports I to ask your network administrator				0
E	Obtain an IP address automati	cally				1
	• Use the following IP address: -					
6	IP address:	192 . 168 . 188 . 250				
6	Subnet mask:	255.255.255.0				
	Default gateway:	192 . 168 . 188 . 253				
- [Obtain DNS server address au	tomatically				
	Use the following DNS server a	ddresses:				
	Preferred DNS server:	· · ·				
	Alternate DNS server:					
	Ualidate settings upon exit	Advanced				
2 items		OK Cancel				== 📰
L						



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INTELLIGENT 1200M Wireless A			
	* Login Device \$\\$ease enter your password	*	Login

PC Web login interface (Default password admin)



Once logged in the following home page will show as follows:



Current mode: - This shows the current operating mode (Gateway in this example) Online users: - The number of users currently connected.

Device description:- Change this to best describe the AP or perhaps it's location) Uptime:- The amount of time the access point as has been running since last reboot CPU and memory usage:- A good indication of whether the AP is working too hard. LAN & WAN information:- Shows current status of how the AP is connected to WAN or LAN



2G and 5G Wi-Fi:-

showing channel allocated .

Flow:- Shows upstream and downstream of current connections.

On the left side is the navigation buttons to other setup areas, as detailed below.

Setup Wizard The mode the access point will work in Image: Setup Wizard Image: Setup Wizard

<u>Gateway mode: -</u> The AP will allocate IP numbers to the connected devices. This mode is default as it permits you to connect and setup the AP very easily.

The AP could be left in this mode however, any connections to the AP (Wireless or not) will be allocated different IP addresses to the main network, potentially preventing communication between devices on the main network.

Repeater mode:- The AP will receive & retransmit the Wi-Fi signal from another device. It performs the same role as Access Point mode, but the key is that it talks over Wi-Fi instead. As such, this doesn't get around obstacles as well as an access point does. While an access point can be put in front of an obstacle, a repeater will need to be angled around it. However, the benefit of repeaters is that they don't need a cable to connect to the central hub.

<u>WISP mode: -</u> wirelessly connects to a WISP (Wireless Internet Service Provider) AP. In this mode, the AP also acts as a router for wired clients on your LAN and provides NAT (Network Address Translation) and a DHCP server to generate IP addresses for wired clients only. NAT and the DHCP server allow many computers to share the same wireless Internet connection.

AP mode: - Using Access Point mode is ideal if you want to extend the WiFi range, but the



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router you're using to extend it isn't too far away from the main central router. The cable will ensure you get the best possible speeds between the access point and the router, and you don't have to worry about anything interfering with a Wi-Fi signal.

Setup screens in Gateway mode



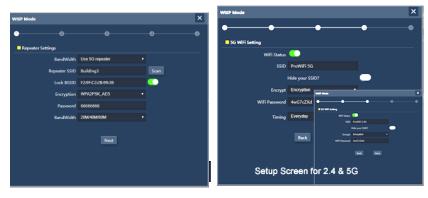
Setup screens for Repeater mode



Setup screen in Wisp Mode



Setup screen in AP Mode





<u> </u>	<u>i Setup</u>			menu	
Home	2G Wifi 5G Wifi MAC ACL Basic VAP 1 VAP 2 VA	WiFi Timer Off Advanced			
Wizard		Wifi Status SSID ProWifi 2.4G Hide your SSID? BandWidth 20M/40M Channel Auto Encryption	WiFi Analyzer		
Network Security Manage		WifFi Password 4wG7cZXd		1	Apply

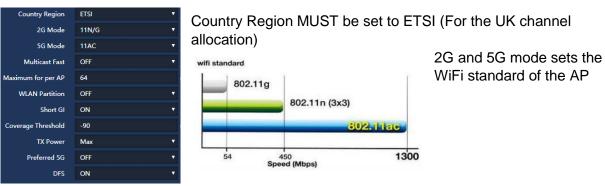
WiFi Status		WiFi Analyzer	Will Analyzer X
SSID	ProWiFi 2.4G		-1080
	Hide your SSID?		3080°
BandWidth	20M/40M		408m
Channel	Auto	۲	5000
Encrypt	Encryption	۲	7080r Buildings
WiFi Password	4wG7cZXd		exercised and a second and as
			1 2 3 4 5 6 7 8 6 10 11 12 13

<u>2G and 5G WiFi:-</u> Setup the SSID (Name of the WiFi), Bandwidth, channel, Encryption and password. This area also has a built-in WiFi analyser to look for the best channel to set the 2.4/5G signal so that it doesn't clash with other channels.

<u>MAC ACL:-</u> Access control lists (ACL) can control the traffic entering a network. When you configure ACL, you can selectively admit or reject inbound traffic, thereby controlling access to your network or to specific resources on your network.

WiFi Timer Off:- Set the time to start and stop WiFi access.

Advanced:-





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<u>Multicast Fast: -</u> Provides the ability to minimize packet loss in a network when there is a link or node failure by enhancing, but not changing, multicast routing protocols.

<u>Maximum per AP: -</u> Number of permitted on the AP. Prevents over loading and therefore slowing down of the AP

<u>WLAN Partition: -</u> For security. Enabling WLAN Partition prevents associated wireless clients from communicating with each other.

Short GI: - Short Guard Interval can increases the data rate by up to 10%.

Coverage threshold: - The signal level at the point where the AP drops the device.

<u>TX power:</u> - Careful setting of this can reduce the channel overlap and degrading of the WiFi signal if using with more than one AP. Especially useful when roaming and set with coverage threshold.

Preferred 5G: - The access point will first offer 5G to the device before falling back to 2.4G.

DFS:- When support for DFS is enabled, it will be necessary for WiFi access points to verify that any radar in proximity is not using DFS frequencies. This process is called *Channel Availability Check*, and it's executed during the boot process of the access point (AP) as well as during its normal operations.

If the AP detects that a radar is using a particular DFS channel, then it will exclude that channel from the list of available channels. This state will last for 30 minutes, after which the AP will check again if the channel can be used for WiFi transmissions.

The *Channel Availability Check* performed during the boot process can take anywhere between 1 and 10 minutes, depending on which country you're in. For this reason, DFS channels are not immediately available when an AP boots. WiFi networks that are servicing real-time and mission-critical applications may want to avoid such disconnections caused by DFS frequencies.

VAP 1-3: In each of the 2G & 5G sections you can allocate up to three VAPs (Virtual Access points)

This is ideal for when you want to give guests or visitors access to WiFi but for security, don't

2G WiFi	5G WiFi	MAC	ACL	WiFi Timer Of	f Advanced		
Basic	VAP 1	VAP 2	VAP 3				
				WiFi Status			
				SSID	VAP01		
					Hide your SSID?		
				Encrypt	Encryption	•	
			Wi	iFi Password	66666666		

want to give them your usual password. You can setup with a temporary VAP SSID and password and simply remove when finished. The VAP user will not be able to scan



or see other devices on

your network.

	Network setup menu				
	LAN Settings Static DHCP WA	N Settings WAN Advanced Set	ings Cloud Server Settings	URL Mapping	
Home	LAN Settings				
		Lan IP 192.168.188.253			
Wizard		Subnet 255.255.255.0			
wizard		STP 🌔			
WiFi	DHCP Server				
		DHCP Server			
		Start Address 2			
Network		Max Number 251			
	DH	CP Lease Time 24(Hour)	T		
	Assig	ned IP Number 1	DHCP List		
Security					Apply
Manage					

Lan Settings:-

Lan IP:- Sets the IP and Subnet of the Access point.

STP:- Spanning Tree Protocol (STP) is a network protocol designed to prevent layer 2 loops and it's standardized as IEEE 802.D protocol.

Manage setup menu

Configure	Reboot	Modify Password	Upgrade	Time	Log	Flow Control	IP Group	Time Group	DDNS Settings
Configure									
		Bac	ckup	Save th	ne configi	uration file to you	r computer		
		Res	store	Choos	se file N	o file chosen			
		Reset	Default	Restore	e the fact	ory default setting	gs, please pres	s this button	
			Telnet		<u>(</u>				

Configure:- Allows you to save the configuration file to your computer.

<u>Restore:</u> Restore the back of the configuration file (also useful for installing many access points with the same configuration).

Reset Default:- Resets the access point back to the manufacturers default settings. <u>Telnet:-</u> Allows access to the devices Telnet port (port 22) As a security risk we suggest this is turned off unless specifically needed



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Initially the AP is setup in Gateway mode. This is for easy connection to your device, for setup. In this mode the AP will allocate an IP, via it's built in DCHP server, to each device connected. This will mean that you will have a different IP range to your usual network, on the devices connected to the AP and communication between devices on each side of the AP is not possible. This may be an issue where you have a printer connected to the usual network and a device connected via the AP.

If this is an issue then please select the AP mode within the Wizard. The AP then stops allocating IPs and leaves this job to the router, all devices will be on the same network.

If you wish to reconnect to the ceiling AP for additional setting up (while in AP mode) then please scan the network with an app (suggest Fing or Net Analyzer) and look for the access point on the network with MAC address starting **70:B3:D5:9D** (exclusive to ProWiFi AP) This will give you the IP that's been given to the AP by the router. Type this number usually starting 192.168.***.*** into your internet browser and the web login screen will appear. Default password is admin, then please see page 4.

TIPS
Due to the Browser Cache process on PC please be aware that we advise to refresh any screen before working on
settings.
Usually a "force refresh" is enough.
Chrome: Press the following key combination: Shift + Ctrl + F5
IE: Press the following key combination: Ctrl + F5
Safari On PC: Ctrl + F5 or on Apple MAC: CMD + R
Alternatively, use the Chrome browser in Incognito mode can also reduce browser Cache issues.
Please see https://www.refreshyourcache.com for further details on the Cache process.
Access point can take up to 2 minutes to reinitialize on reboot.
Using the In-Wall AP in "AP Mode" will require you to set your devices IP to static. Set 192.168.188.250 as the
device IP and 192.168.188.253 as the gateway IP address.
Easiest install is using Gateway mode (as above)
App for finding spare Wi-Fi channels is <u>Wi-Fi Analyzer (</u> Apple or Android)
App for searching on networks for IP is <u>FING (</u> Apple or Android)
Reset back to default by holding front button for 15 seconds.
Check out Firefox Browser and the Cache add-ons.



PROAPW750

Hardware:							
Chipset	Qualcomm QCA9563 + QCA9886 +QCA8334						
Standard	802.11ac/b/g/n, MI	802.11ac/b/g/n, MIMO technology					
Memory	128MB DDR2 RAM		•				
Flash	16MB						
Interface	1 *10/100 /1000Mb	ps RJ45WAN	Port				
	1 *10/100/ 1000Mb	ps RJ45LAN	Port				
Antonno	1* Reset button, pr	ess 15 secon	ds to revert to def	ault setting			
Antenna	Build in 5dBi MIMC	Antenna					
Power consumption	48V PoE<30W						
Size	198mm X 28mm						
RF Data	<u> </u>						
Frequency	2.4G:802.11b/g/n:2	2.4GHz – 2.48	4GHz,				
Country code	5GHz:802.11a/n/ac	:5.150GHz~	5.850GHz				
Country code	FCC、IC、ETSI、	MKK、MKK1	MKK2、MKK3、	NCC、RU	SSIAN、CN		
Modulation	OFDM = BPSK, QF		, 64-QAM, 128-Q	AM, 256-QA	Μ		
Throughput	DSSS = DBPSK, D	QPSK, CCK					
2.4G RF Power	1200Mbps						
2.40 KF FOwer	802.11b	11M	28±2dBm	1M	29±2dBm		
	802.11g	54M	27±2dBm	6M	29±2dBm		
	802.11n HT20	MCS7	26±2dBm	MCS0	28±2dBm		
50 05 0	802.11n HT40	MCS7	25±2dBm	MCS0	27±2dBm		
5G RF Power	802.11a	54M	23±2dBm	6M	25±2dBm		
	802.11n HT20	MCS7	22±2dBm	MCS0	24±2dBm		
	802.11n HT40	MCS7	21±2dBm	MCS0	24±2dBm		
	802.11ac HT80	MCS9	20±2dBm	MCS0	23±2dBm		
2.4G Receive Sensitivity	802.11b	11M	-85dBm	1M	-94dBm		
Conolitivity	802.11g	54M	-72dBm	6M	-90dBm		
	802.11n HT20	MCS7	-70dBm	MCS0	-88dBm		
	802.11n HT40	MCS7	-68dBm	MCS0	-86dBm		
5G Receive Sensitivity	802.11a	54M	-72dBm	6M	-90dBm		
	802.11n HT20	MCS7	-70dBm	MCS0.	-88dBm		
	802.11n HT40	MCS7	-68dBm	MCS0.	-86dBm		
	802.11ac HT80	MCS9	-58dBm	MCS0.	-85dBm		
EVM	2.4G: 802.11b : ≤-		•				
Max Users	5G: 802.11a: ≤-250 128+	צ: 802.11n: ≤	≤-28 dB; 802.11a	:: ≤-32 dB			
Firmware Features: Operation mode		14/100					
WAN Type		Wireless AP, Gateway, WISP, WiFi Repeater					
	Dynamic IP/Static IP/PPPoE/L2TP(Dual Access) /PPTP(Dual Access)						



Wireless Security	64/128-bit WEP, WPA / WPA2, WPA-PSK/ WPA2-PSK encryption
SSID	Multiple SSID (4 SSID for 2.4G, 4 SSID for 5.8G)
Firewall	DoS, SPI Firewall, IP Address Filter/MAC Address Filter/Domain Filter IP and MAC Address Binding
Protocols	IPv4
Others:	
System Requirements	Microsoft Windows 98SE, NT, 2000, XP, Vista™ or Windows 7, Windows 8, MAC OS, NetWare, UNIX or Linux
Environment	Operating Temperature: -30~55 °C Storage Temperature: -40~70 °C Humidity: 5%~95% non-condensing
Management	Firmware GUI, Remote Management, WLAN Controller, Cloud Management System

PROAPW300

Wireless				
Standards	IEEE 802.11n, IEEE 802.11g, IEEE 802.11b			
Data Rate	11n:300Mbps 11g: 54Mbps 11b: 11Mbps			
Frequency Range	2.4-2.4835GHz			
Wireless Transmit Power	11n @MCS7:14±2DB, @MCS0:16±2DB. 11g @54M:15±2DB, @6M:17±2DB. 11b @11M:18±2DB, @1M:20±2DB.			
Modulation Type	OFDM = BPSK,QPSK,16-QAM,64-QAM;DSSS = DBPSK,DQPSK,CCK			
Receive Sensitivity	11n: -70dbm@MCS7, -88dbm@MCS0. 11g: -72dbm@54Mbps,-88dbm@6Mbps. 11b: -85dbm@11Mbps,-94dbm@1Mbps.			
EVM	802.11n: ≤-28 DB 802.11g: ≤-25 DB 802.11b: ≤-10 DB			
PPM	±20ppm			
MAX Users	64			
Operation Mode	Gateway, AP, Repeater			
Wireless Security	64/128-bit WEP, WPA/WPA2, WPA /WPA2-Personal (TKIP/AES)			
System Requirements	nts Windows 7/Vista/XP/2000,Mac OS®, Linux or Android OS			
Hardware				
Chipset Qualcomm Atheros QCA9531				



Flash	16M
SDRAM	64M
Interfaces	2 x 10/100Mbps LAN/WAN Port
Button	Reset Button
Antenna	MIMO 3dBi Build-in omni-directional Antenna
Power Supply	802.3af PoE
Dimensions(W x D x H)	86*86*68mm
Others	
Operating Temperature	-20°C~55°C
Storage Temperature	-40°C~70°C
Relative Humidity	10% ~ 90%, Non-condensing
Storage Humidity	5%~95%, Non-condensing
Certifications	RoHS