



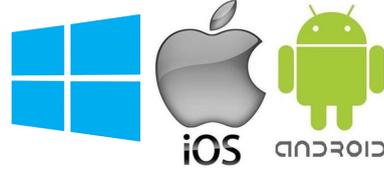
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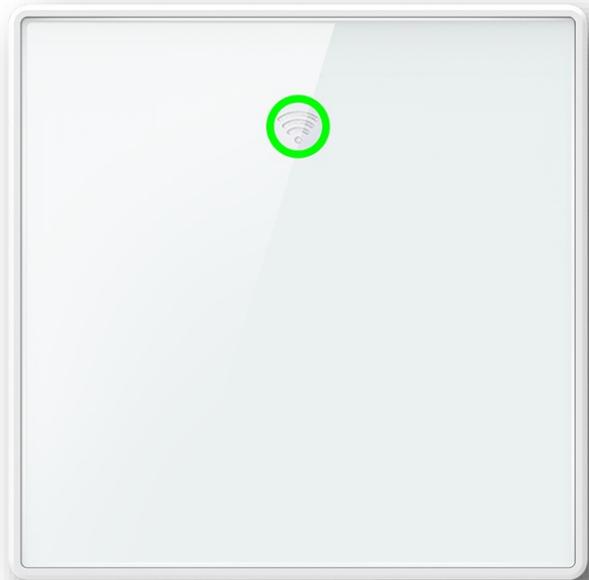
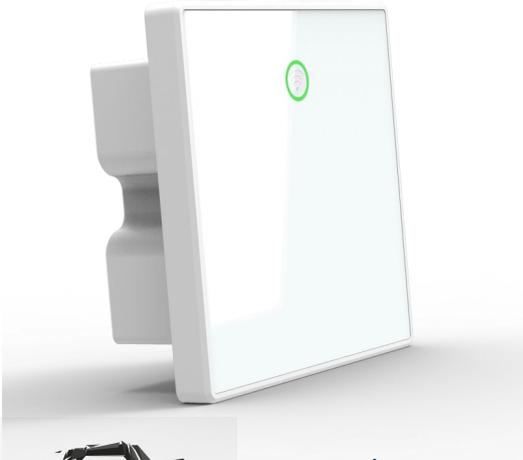
APW1200 PC cable & Wi-Fi Set-up Guide (48v In-Wall access Points)

INSTRUCTIONS FOR PROAPW1200

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Compatible with all Operating Systems



- Dual Band 2.4 & 5Ghz
- Beam Forming Technology
- Variable Power
- 4*4 MIMO + Omni Antenna
- IEEE 802.3af PoE standard
- 1200Mbps Data rate
- Load Balancing
- Smart Roaming



Video tutorials are also available online on our  channel Blake UK Ltd



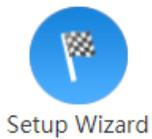
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1. Connect to the access point WiFi (ProWiFi 2.4G) and use the password **4wG7cZXd**
2. Enter the password **admin** on the login screen.
3. Select the preferred mode of operation (default mode is Gateway)
In gateway mode the IP address will be different to the rest of the network, the AP allocates IP address in this mode. This can cause problems with access between devices on the other network
4. Set connection method to how the AP will receive and IP address from the router (DHCP Default)
5. Set the SSID (name of WiFi) on both 2.4 & 5G and select a WiFi password (default is **4wG7cZXd**)
6. Click Apply
7. Allow the AP to reboot (this can take up to two minutes)
8. Reconnect to the WiFi using the new settings.

Select Router Mode

Choose different mode, can make the function of the router change, please carefully choose according to guidance.



Gateway Mode
The device is supposed to connect to internet via ADSL/Cable Modem.

Repeater Mode
The user can access wireless AP, devices can be connected to other wireless network using the wireless.

AP Mode
The AP wireless interface and cable interface bridging together.

Scan Connect Method

According to the current network environment, and intelligence to choose the right means of access to the Internet

Skip >>

Set Connection Method

Select the Connect Method of the Internet

Connect Method: DHCP

Back Next

WiFi Setting

Set WiFi name and password, as well as visitors WiFi name and password

2.4G SSID: ProWiFi 2.4G

5.8G SSID: ProWiFi 5G

Hide your SSID?

WiFi Password: 4wG7cZXd

WiFi password consistent with device password

Device Password: admin

Visitors: Enable Disable

Timing: Wednesday 3:00

Back Apply



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1. If the Access point is in AP Mode.

If you are connecting the Access Point (AP) to the PC via the cable network socket (or Wi-Fi) and you're in **AP MODE**

You will need to change the Network settings of your PC to static.

 > Control Panel > Network and Internet > Network Connections

The settings can be found in

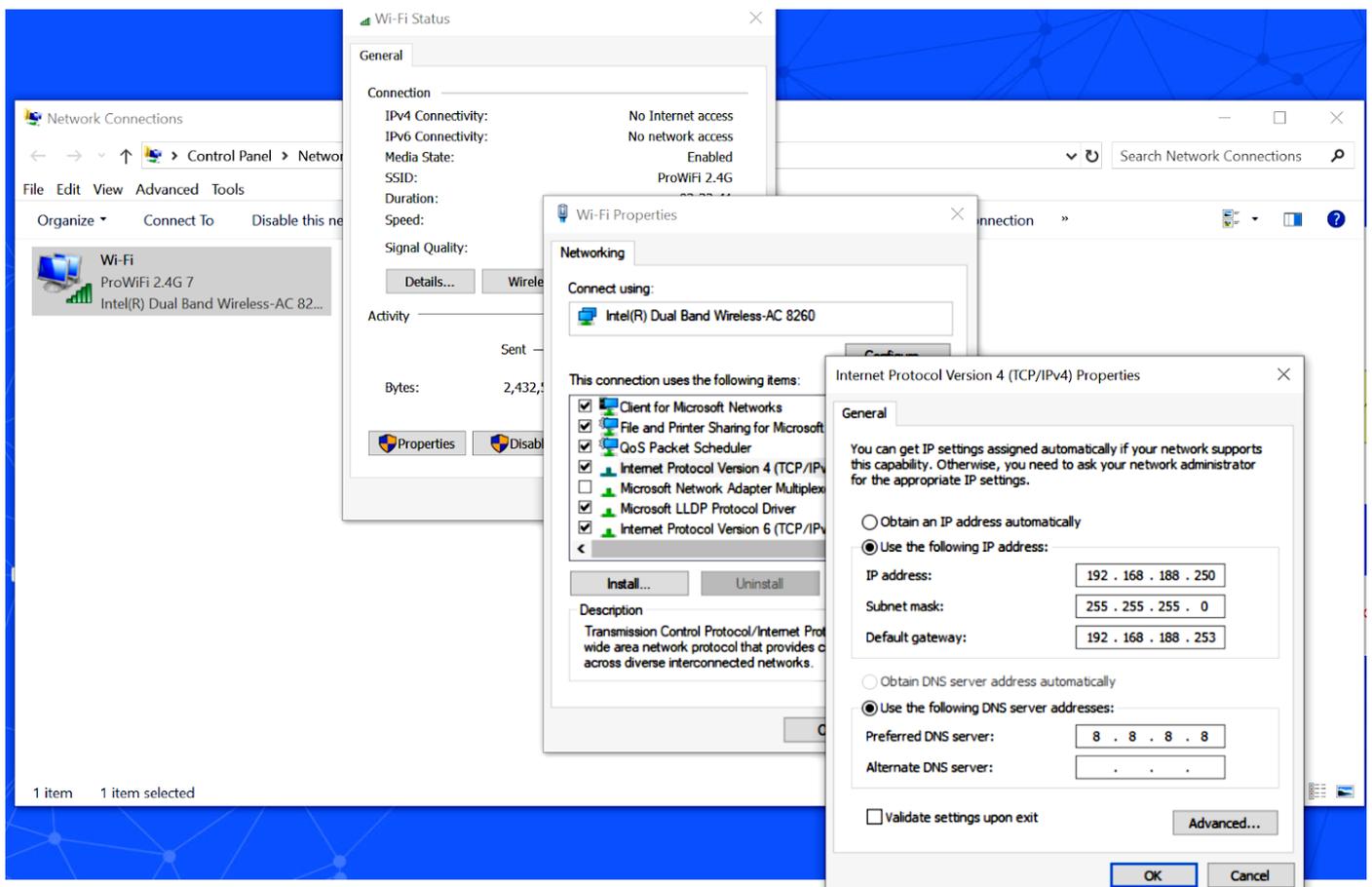
Set the IP of the computer to 192.168.188.250

Set the Subnet mask 255.255.255.0

Set the Default gateway to 192.168.188.253

You can now access the login interface by going to 192.168.188.253 in your browser

Enter the default password **admin** on the login screen.



The screenshot shows the Windows Network Connections control panel. The 'Wi-Fi' adapter is selected. Overlaid on this are three dialog boxes: 'Wi-Fi Status', 'Wi-Fi Properties', and 'Internet Protocol Version 4 (TCP/IPv4) Properties'. The 'Wi-Fi Properties' dialog shows the network card as 'Intel(R) Dual Band Wireless-AC 8260'. The 'Internet Protocol Version 4 (TCP/IPv4) Properties' dialog is set to 'Use the following IP address' with the following values: IP address: 192.168.188.250, Subnet mask: 255.255.255.0, and Default gateway: 192.168.188.253. The DNS settings are also configured to 'Use the following DNS server addresses' with Preferred DNS server: 8.8.8.8 and Alternate DNS server:

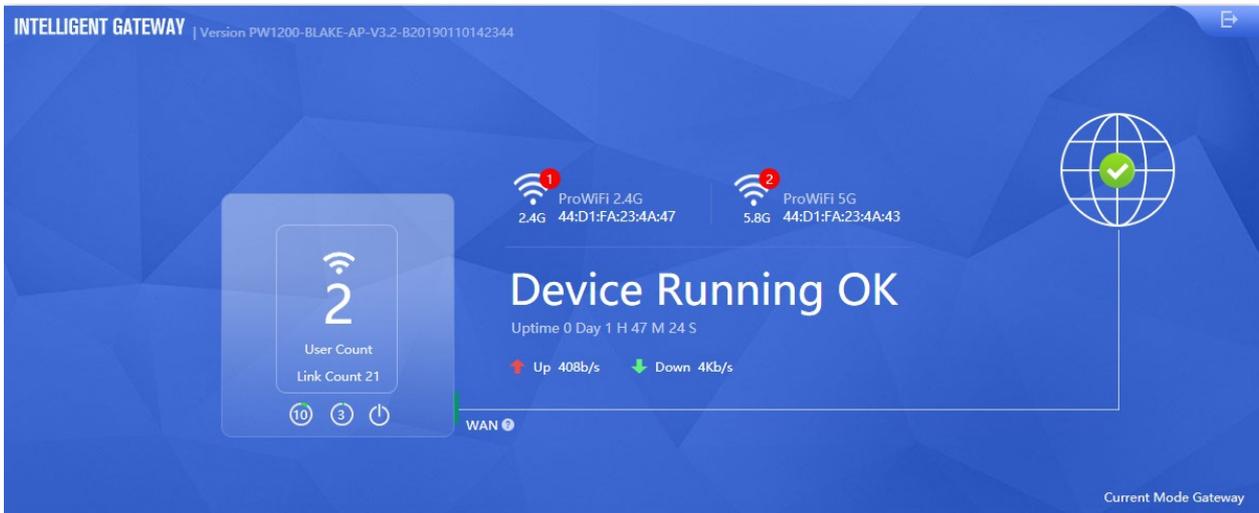


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Login back into the screen having followed the above instructions will now show a full GUI setup screen.

NB: Features will vary depending on mode of operation selected



- 
User Manager
- 
Setup Wizard
- 
WiFi Settings
- 
LAN Settings
- 
WAN Settings
- 
Url Filter
- 
LED
- 
Timed Reboot
- 
Advanced



User Manager

You can limit the use of Internet access between certain times using the User Manager.

1. Select the green icon on line of the device you wish to control   
2. Select prohibit Internet Time and give the Time range a name (Perhaps afternoon or evening) and click add.
3. Choose a time range that the device is not permitted to connect to the Internet & the day range
4. You can give the device and its range a name in the Mark section and click apply

To remove a block from a device simply click the question mark at the side of Control and either temporarily remove the

3	Samsung-Galaxy-S7-e	192.168.188.200	2C:0E:3D:60:A5:B7	318Kb	437Kb	Control 
---	---------------------	-----------------	-------------------	-------	-------	---

block with the green on/off switch or delete the block with the red cross.

SN	Time Frame	Work Date	Status	
1	00:00-00:01	Monday Tuesday Wednesday Thursday Friday		



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WiFi Settings

In WiFi Settings you'll find the 2.4 and 5G Wireless settings. From here you can edit the default settings and rename the SSID or alter the password. You can also change the channel and bandwidth and use the built in WiFi Analyzer for 2.4 or 5G.

2.4G wireless state WiFi Analyzer

SSID: ProWiFi 2.4G

Hide your SSID?

BandWidth: 20M/40M

Channel: Auto

Encrypt: WPA/WPA2-PSK

Password: 4wG7cZXd

2.4G Status

Client List Apply

5.8G wireless state WiFi Analyzer

SSID: ProWiFi 5G

Hide your SSID?

BandWidth: 80M

Channel: Auto

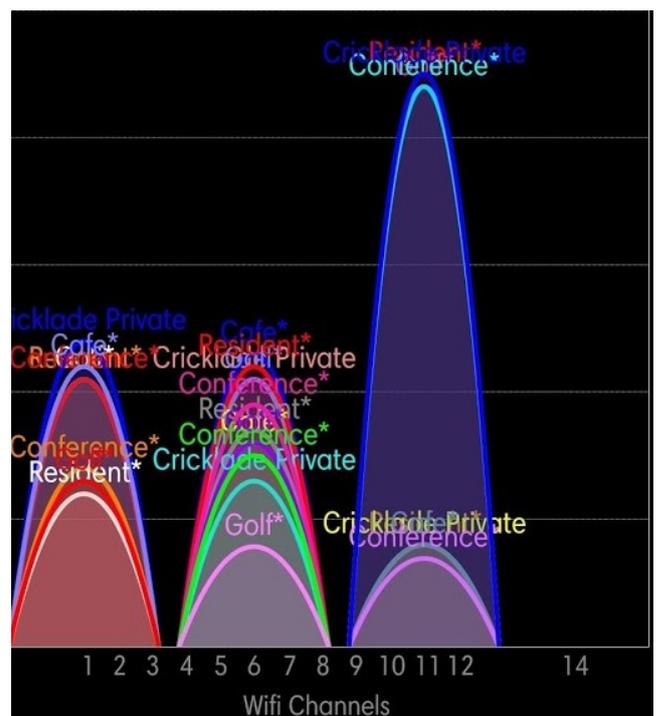
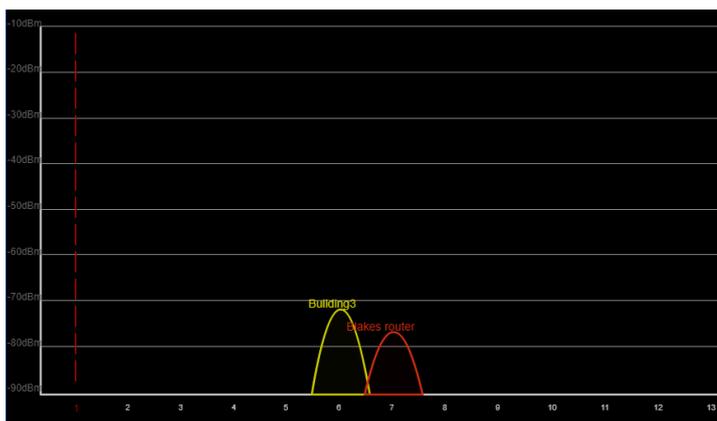
Encrypt: WPA/WPA2-PSK

Password: 4wG7cZXd

5.8G Status

Client List Apply

The built-in WiFi Analyzer can help you to identify Wi-Fi problems, find the best channel or the best place for your access-point by turning your PC/ laptop, tablet into an analyzer for your wireless network.





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WiFi Settings

The screenshot shows the ACL configuration page with a table of active rules. A modal window titled 'Client List' is open, showing a list of detected devices.

SN	Device Name	MAC Address	Status	Mark
1	Samsung-Galaxy-S7-e	2C:0E:3D:60:A5:B7	✓	Phone

MAC Address	IP Address	Mark
04:69:F8:4B:90:AE	192.168.188.48	Darens-iPad
A4:34:D9:4B:FA:5F	192.168.188.156	Ideapad
2C:0E:3D:60:A5:B7	192.168.188.200	Samsung-Galaxy-S7-e

ACL (Access Control List) blocks devices from access to the Wi-Fi completely. This differs from the User manager by stopping any connection to the WiFi Completely (With UM they can still connect to the AP but loose Internet connection) The block is by MAC address of the device.

1. Select Add button
2. Press the Scan button and choose which device to block
3. Give the device a name in the Mark box and click Add.
4. At the bottom of the page select the option and click Apply

The image shows the bottom of the ACL configuration page. It includes buttons for 'Add', 'Delete', and 'Apply', a 'Disable' dropdown menu, and a tooltip for the 'Prohibited rules within the device through' option.

5. To remove a block, select the tick box at the side of the device line and click the delete button.



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WiFi Settings

Country Region	<input type="text" value="ETSI"/>	▼	2.4G channel(1-13) 5.8G channel(36-64)(100-140)
Every WiFi Max Client	<input type="text" value="64"/>		(Range 0-64 0:No Limit)
WLAN Partition	<input type="text" value="OFF"/>	▼	
Short GI	<input type="text" value="ON"/>	▼	
Coverage Threshold	<input type="text" value="-95"/>		(-95dBm~-65dBm)
Priority Network	<input type="text" value="5.8G"/>	▼	<input type="checkbox"/>
DFS	<input type="checkbox"/>		

Within the Advanced tab you can select the Country region. This MUST be set to ETSI (default) for the UK.

Wi-Fi Max Client limits the maximum number of connections to the AP.

WLAN Partition is used to prevent wireless devices from connecting and accessing files to other computers on the network. If you have strangers using your network, you may want to enable this option

Short GI Short guard interval can increase the data rate by up to 10%.

Coverage Threshold is the signal level where the AP drops the device.

Priority network will steer devices to connect at 5GHz or 2.4G if selected.

DFS (Dynamic Frequency Selection) is a Wi-Fi function that enables WLANs to use 5 GHz frequencies that are generally reserved for radars

In this section you will also find options to vary the power settings (Useful for setting up roaming or preventing channel collision) and a Wi-Fi timer for switching off Wi-Fi from the AP between certain times of the day or night.

WiFi Timer Off

Time Range : - :

TX Power Max

Select Power



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LAN Settings

LAN Settings

Lan IP

Subnet

STP

DHCP Server

DHCP Server

Start Address

Max Number

DHCP Lease Time (Hour)

Assigned IP Number 3

[DHCP List](#)

[Apply](#)

Set the IP range and DHCP lease time here if required

Setting a fixed IP for a device is possible here. The device when connected will always be allocated the same IP every time.

SN	Device Name	IP Address	MAC Address	Mark	Config
1	Phone	192.168.188.48	04:69:F8:4B:90:AE	Phone	

Add MAC

IP Address [Scan](#)

MAC Address

Mark

[Add](#)

1. Select Add at the bottom of the screen
2. Press Scan and select the device you wish to allocate the fixed IP to, use Mark to give it a name & click Add.
3. Click apply once finished.

You can edit the IP with the green config button or delete by selecting the tick box and clicking the delete button

Video tutorials are also available online on our  channel Blake UK Ltd



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WAN Settings

WAN Settings

WAN Settings Advanced Settings

■ WAN Settings

Connect Method	<input type="text" value="DHCP"/>	
MTU	<input type="text" value="1492"/>	(1400-1500)
Set DNS Manually	<input type="checkbox"/>	
Primary DNS	<input type="text" value="8.8.8.8"/>	
Secondary DNS	<input type="text" value="4.4.4.4"/>	
Band Type	<input type="text" value="1000M Fiber"/>	
Downstream	<input type="text" value="1000000"/>	Kbps
Upstream	<input type="text" value="1000000"/>	Kbps

In WAN settings you can alter the required Connection method to the network (Default is DHCP) with static and PPPoE options

Advanced Settings

MAC Clone	<input type="text"/>	<input type="button" value="Scan"/>	<input checked="" type="checkbox"/>
Enable web server access on WAN port	<input type="text" value="8080"/>		<input checked="" type="checkbox"/>

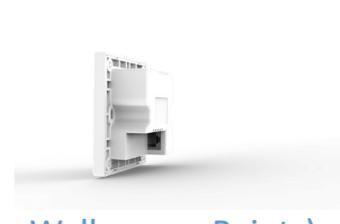
You have the ability to clone MAC addresses here, simply scan and select the MAC address of the device you wish to replicate.

Enable Webserver delivers the GUI interface via the selected port (Default is 8080) onto the local network, meaning the setup interface will be available to anyone with the IP number of the Access point, who is connected on the local LAN via cable.

Once setup is complete this can be turned off for security if required.



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LED

LED

LED Status

Timed Close

Time Range 21 : 00 - 08 : 00

Apply

If required you can deactivate the LED display on the front panel between certain times or switch off completely.

This is idea for bedrooms where you may not want the light while the room is dark.



Timed Reboot

Reboot

Reboot Timed Reboot

Timed Reboot

Timed Reboot

Reboot Time Sunday 3:00

Restart Interval 1 Day

Apply

Reboot allows an immediate reboot of the AP, all devices will be removed from the AP.

Timed reboot allows you to select a convenient time for the AP to reboot itself. This is idea for keeping the AP in good working condition and clears any errors that might have built up since the last reboot. All devices will loose internet connection while the device reboots

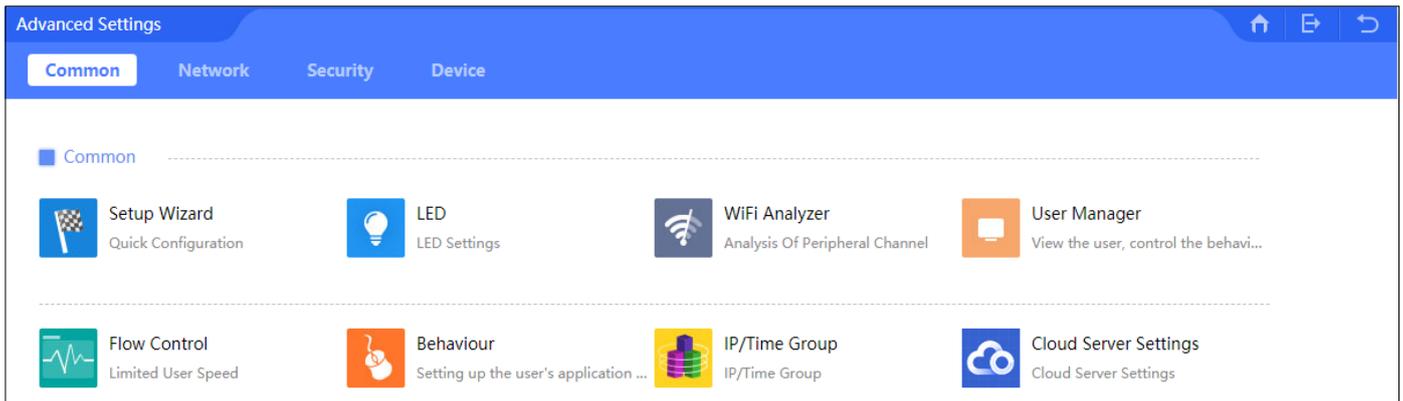


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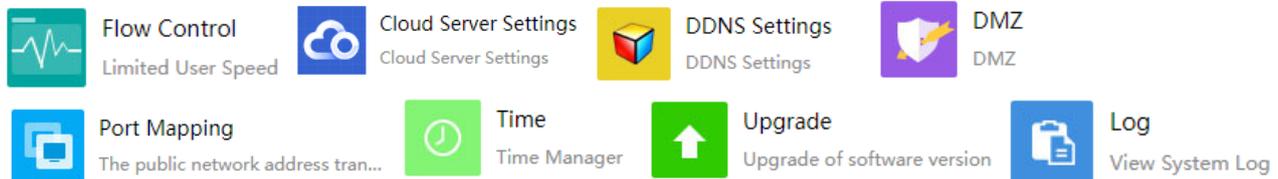
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Advanced



The most of the above has already been covered in this instruction leaflet, please look back to previous pages. However other parts of this are covered in brief below.



Flow control: allows you to limit a users traffic bandwidth.

Cloud server: allows settings to be remotely altered (feature coming soon)

DDNS :settings (Not currently available on this access point)

DMZ: systems you can afford to be "exposed", systems you want to host services to the outside world, e.g. your SSH hosts;

Port mapping is an application of network address translation (NAT) that redirects a communication request from one address and port number combination to another while the packets are traversing a network gateway, such as a router or firewall.

Time: Setting the date and time of the access point

Upgrade: For upgrading the Firmware of the AP

Log: Keeps a log of connections and errors for resolving problems or security issues.



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Good apps to find network IP addresses are



Good apps to find the best Wi-Fi channel are



To reset your Access Point to default settings, press the little button on the front panel for 15 seconds. This will reset back to default and you can access the AP using the details over the page.



Still unable to setup? Please see our Blake UK YouTube channel for more setup information.

For Details of other Proception Wi-Fi products please visit
<http://www.proceptionwifi.co.uk>

Where you will find detailed information, Specifications
& Configuration downloads.

Network tools in our range.

PRORJ45TOOL - RJ45 Strip, Crimp & Trimming Tool for use with CAT5/6 Push Through Connectors

RJ45 Crimp and Cutter Tool for Feed Through RJ45 Plugs. This tool crimps & cuts at the same time and can be used with either push through or normal RJ45 connectors.



PROCATTESTER - Cable Tester

This cable tester is used to test wire continuity, short circuit and faulty connections for ethernet or telephone cable.

The 9 LEDs show you which wire is connected or missing.



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750Mbps

WIRELESS FEATURES	
Wireless Standards	IEEE 802.11ac/n/a 5GHz; IEEE 802.11n/g/b 2.4GHz
Frequency	5GHz and 2.4GHz
Signal Rate	5GHz: Up to 433Mbps; 2.4GHz: Up to 300Mbps
EIRP	<20dBm(EIRP)
Reception Sensitivity	2.4G: 11n: -70dbm@MCS7, -88dbm@MCS0. 11g: -72dbm@54Mbps, -88dbm@6Mbps. 11b: -85dbm@11Mbps, -94dbm@1Mbps. 5.8G: 11a: -72dbm@54Mbps, -90dbm@6Mbps. 11n: -70dbm@MCS7, -90dbm@MCS0. 11ac: -60dbm@MCS9, -86dbm@MCS0.
RF Power	2.4G: 11n @MCS7: 15±2DB, @MCS0: 17±2DB. 11g @54M: 16±2DB, @6M: 18±2DB. 11b @11M: 18±2DB, @1M: 20±2DB. 5.8G: 11a @54M: 15±2DB, @6M: 17±2DB. 11n @MCS7: 14±2DB, @MCS0: 16±2DB. 11ac @MCS9: 13±2DB, @MCS0: 15±2DB.
Wireless	Auto-Channel selection Distance Control (802.1x Ack timeout) Multiple SSID (4 SSID for 2.4G, 4 SSID for 5.8G) BSSID
EVM	802.11n: ≤-28 DB 802.11g: ≤-25 DB 802.11b: ≤-10 DB 802.11a: ≤-25 DB
PPM	±20ppm
Max Access Users	128
Operation Mode	Wireless AP, Gateway, Wi-Fi Repeater
Wireless Security	64/128-bit WEP, WPA / WPA2, WPA-PSK/ WPA2-PSK encryption
LED Status	Sys(System), WAN, Wi-Fi



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1200 Mbps In-Wall

Wireless Standards	IEEE 802.11ac/n/a 5GHz; IEEE 802.11n/g/b 2.4GHz				
Frequency	5GHz and 2.4GHz				
Signal Rate	5GHz: Up to 900Mbps; 2.4GHz: Up to 300Mbps				
EIRP	<20dBm(EIRP)				
RF Power (2.4GHz)	802.11b	11M	17±2dBm	1M	20±2dBm
	802.11g	54M	16±2dBm	6M	19±2dBm
	802.11n HT20	MCS7	15±2dBm	MCS0	18±2dBm
	802.11n HT40	MCS7	14±2dBm	MCS0	17±2dBm
RF Power (5GHz)	802.11a	54M	13±2dBm	6M	16±2dBm
	802.11n HT20	MCS7	12±2dBm	MCS0	15±2dBm
	802.11n HT40	MCS7	11±2dBm	MCS0	14±2dBm
	802.11ac HT80	MCS9	10±2dBm	MCS0	13±2dBm
Receive Sensitivity (2.4GHz)	802.11b	11M	-85dBm	1M	-94dBm
	802.11g	54M	-72dBm	6M	-90dBm
	802.11n HT20	MCS7	-70dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-68dBm	MCS0	-86dBm
Receive Sensitivity (5GHz)	802.11a	54M	-74dBm	6M	-90dBm
	802.11n HT20	MCS7	-72dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-68dBm	MCS0	-85dBm
	802.11ac HT80	MCS9	-58dBm	MCS0	-80dBm
Wireless	Auto-Channel selection				
	Distance Control (802.1x Ack timeout)				
	Multiple SSID (4 SSID for 2.4G, 4 SSID for 5.8G)				
	BSSID				
EVM	2.4G: 802.11b: ≤-10 dB; 802.11g: ≤-25dB; 802.11n: ≤-28 dB 5G: 802.11a: ≤-25 dB; 802.11n: ≤-28 dB; 802.11ac: ≤-32 dB				
PPM	±20ppm				
Max Access Users	128				
Operation Mode	Wireless AP, Gateway, Wi-Fi Repeater				
Wireless Security	64/128-bit WEP, WPA / WPA2, WPA-PSK/ WPA2-PSK encryption				
LED Status	Wi-Fi				