



4G COMBO

IDEAL FOR



V3

UK
CA



User Manual

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Technical Specifications	
Router & Antenna Type	Wideband 4G with 3G fall-back
Frequencies	620-900 / 1700-2200 / 2500-2700MHz
LTE FDD Bands UK / EU / AUS	B1/B3/B7/B8/B20/B28
LTE FDD Bands USA	B2/B4/B5/B7/B28/B66
LTE TDD Bands UK / EU / AUS	B38/B40/B41
LTE TDD Bands USA	B38/B40/B41
WCDMA Bands UK / EU / AUS	B1/B8
WCDMA Bands USA	B2/B4/B5
Peak gain	6dBi
Impedance	50 Ohm
Power input	DC 12V 1A / 240V 0.5A / POE / USB-C
Operating temperature	0°C~55°C
Storage temperature	-40°C ~70°C
Operating Humidity	10%~90% (typical)
Router LTE Category	4
Wifi	WiFi6 2.4GHz 802.11b/g/n/ax
Wifi Transfer Speed	Up to 286Mbps
LTE Downlink	Up to 150Mbps
LTE Uplink	Up to 50Mbps
Wan	10/100
Lan	1 x 10M/100M RJ45
Dimensions mm (with antennas)	365*120*40mm (L*W*D)
Dimensions mm (no antennas)	172*120*40mm (L*W*D)

*Product specifications for reference and subject to change without prior notice.



Many thanks and congratulations on your purchase of the Falcon 4G Combo.

The Falcon 4G Combo provides a simple and effective solution to amplified 4G internet with no holes drilled.

We hope you enjoy your new purchase



Please study and follow the instructions carefully to get the best out of your new product.

If further assistance is required please contact product support

cs1@falcontechanical.co.uk

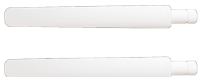
or

support@falcontechology.eu

Falcon Technical Ltd
Hill Farm
Northwich Rd
Dutton, Cheshire
United Kingdom
WA4 4LE

What's included

The following items are included with the 4G Combo

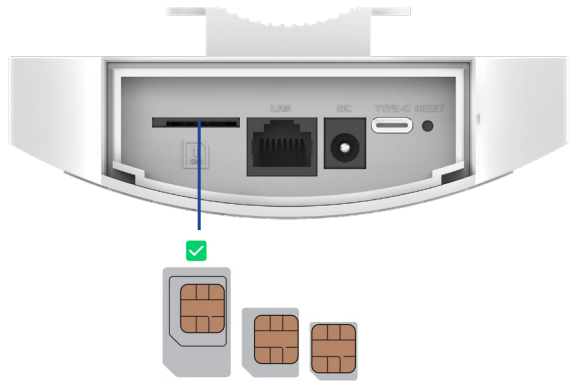
		
1 x 4G Combo V3	2 x High Gain Antennas (SMA connection)	2 x Mounting Suction Pads
		
1 x 2mtr 12V DC Cable	1 x 2mtr Mains Adapter (UK / EU / US / AUS)	1 x 2mtr USB Cable (Type C)
		
1 x Cable Tie (For Pole Mounting)	1 x SIM Adapter & Pin	1 x User Manual

1. 1 x Falcon 4G Combo
2. 2 x High gain antennas (Male SMA connection)
3. 2 x Mounting suction pads
4. 1 x 2 metre 12V DC cable (Cigarette lighter type)
5. 1 x 2 metre mains adapter (UK / EU / US / AUS)
6. 1 x 2 metre USB-C power cable
7. 1 x Large cable tie (For optional pole mounting)
8. 1 x SIM adapter & pin (To allow use of other sim types)
9. 1 x Falcon 4G Combo user manual

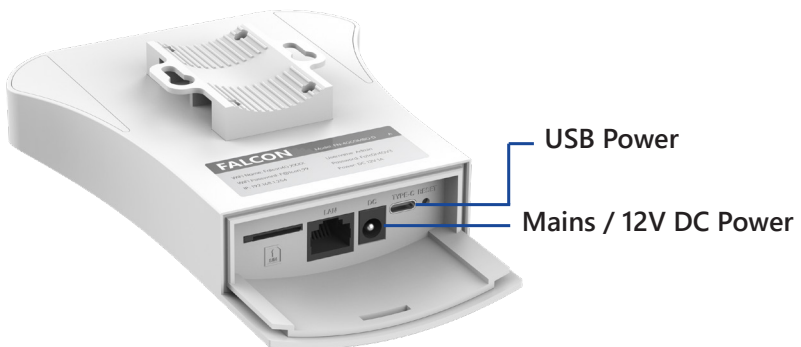
Please check these contents prior to use. If contents are incomplete, please contact us via email at cs1@falcontechical.co.uk.

Connecting to the 4G Combo

1. Remove 4G Combo rear cover and insert SIM card until it clicks into place. Full SIM card size required, check the sticker on the next to the SIM port for guidance. (SIM adapter included for other SIM types).



2. Insert power cable into the power port on the base of the 4G Combo (12V DC, Mains 240v & USB cable options included).



Connecting to the 4G Combo

3. Wait for the router to finish initialising.

The unit will display a series of lights on the side indicating the status. The lights will flash whilst the router is booting up and should become solid when the router connects correctly.

-   Power indicator
-   Internet Connection
-   4G Signal
-   Wifi Active
-   LAN Connection

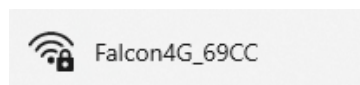


Once the router has completed initialising, it is ready to connect Wi-fi devices to it.

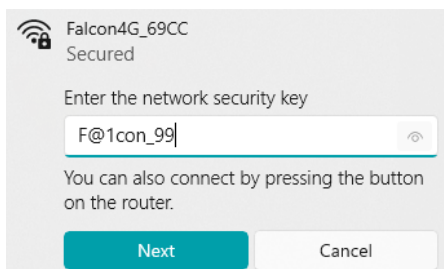
4. Connect your Wi-Fi devices to the 4G Combo

Wi-Fi Name: **Falcon4G_XXXX** (XXXX - 4 digit identifier)

Password: **F@1con_99**



Password is case sensitive



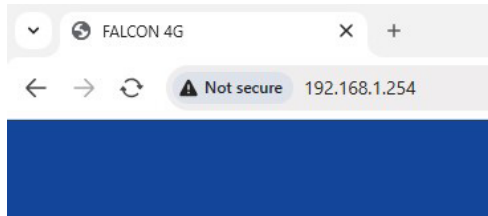
If not changing Passwords and Network names then the unit will be ready for use. To change how your 4G Combo shows in Wi-Fi searches and also to change your Wi-Fi password from the default password, follow the [Web Interface Login](#) on the next page.

Web Interface (Admin Settings)

Web Interface Login:

Connect to the 4G Combo via Wi-fi to make a local connection with the unit.

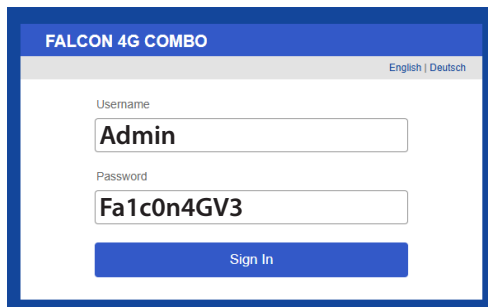
Open your internet browser window and type **192.168.1.254**



You will be presented with Falcon 4G Combo admin login page



Enter the admin username and password listed on the rear label of the 4G Combo and click **Sign In**.



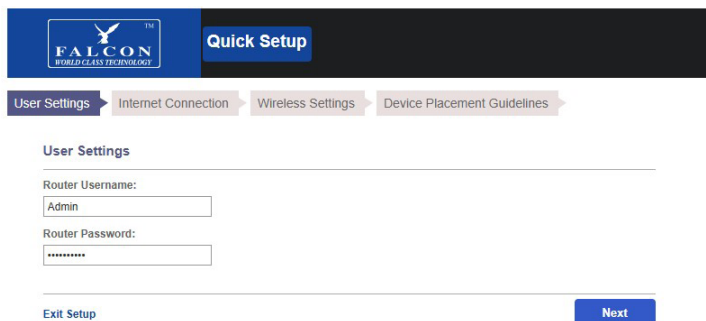
Web Interface - Quick Setup

Quick Setup

The router Quick Setup tab is designed to assist you in connecting your new router to the Internet. This Quick Setup procedure guides you through step-by-step instructions on how to get an Internet connection up and running and change usernames and passwords.

Screen 1 - User Settings

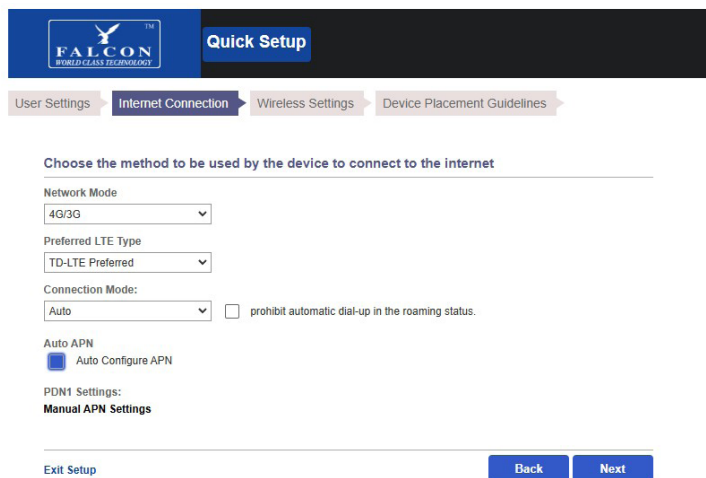
Via this screen you can change the router's Username and Password. The default username and password are '**Admin**' and '**Fa1c0n4GV3**'



The screenshot shows the 'Quick Setup' interface for the Falcon router. At the top, there is a header with the Falcon logo and the title 'Quick Setup'. Below the header, a navigation bar contains four tabs: 'User Settings' (selected), 'Internet Connection', 'Wireless Settings', and 'Device Placement Guidelines'. The main content area is titled 'User Settings' and contains two input fields: 'Router Username:' with the value 'Admin' and 'Router Password:' with a masked password '*****'. At the bottom of the form, there are two buttons: 'Exit Setup' on the left and 'Next' on the right.

Screen 2 - Internet Connection

The Internet Connection screen allows the user to configure the Internet connection type. In most cases, leave as **Auto Configure APN**.



The screenshot shows the 'Quick Setup' interface for the Falcon router, specifically the 'Internet Connection' screen. The navigation bar at the top shows 'User Settings', 'Internet Connection' (selected), 'Wireless Settings', and 'Device Placement Guidelines'. The main content area is titled 'Choose the method to be used by the device to connect to the internet'. It contains several settings: 'Network Mode' set to '4G/3G', 'Preferred LTE Type' set to 'TD-LTE Preferred', and 'Connection Mode' set to 'Auto'. There is a checkbox labeled 'prohibit automatic dial-up in the roaming status' which is currently unchecked. Below these settings, there is a section for 'Auto APN' with a radio button selected for 'Auto Configure APN'. At the bottom, there is a section for 'PDN1 Settings:' with the option 'Manual APN Settings'. At the very bottom of the form, there are three buttons: 'Exit Setup' on the left, and 'Back' and 'Next' on the right.

Web Interface - Quick Setup

In some cases where the router does not recognise the SIM provider and configure the router automatically, a manual APN setting can be created. View the [Web Interface - Advanced](#) settings page for details on how to configure the router for Manual APN settings.

Screen 3 - Wireless Settings

Via this screen you can change how the Falcon 4G Combo appears as a wireless network. **The Network Name (SSID)** and **Password** can be changed to something more personal or memorable.

The screenshot shows the 'Quick Setup' interface for the Falcon 4G Combo. At the top, there's a blue header with the Falcon logo and the text 'WORLD CLASS TECHNOLOGY'. Below this is a dark blue bar with 'Quick Setup' in white. A navigation bar below the header shows four steps: 'User Settings', 'Internet Connection', 'Wireless Settings' (which is highlighted with a blue arrow), and 'Device Placement Guidelines'. The main content area is titled 'Wireless Network Settings'. It contains several fields: 'Network Name (SSID)' with a text box containing 'Falcon4G_69CC'; 'Network Visibility Status' with two radio buttons, 'Visible' (selected) and 'Invisible'; 'Wireless Security' with a dropdown menu showing 'WPA2-PSK'; 'Password' with a text box containing eight asterisks; an 'Unmask Password' checkbox; 'WPA Cipher' with a dropdown menu showing 'AES (Stronger)'; and at the bottom, an 'Exit Setup' link and two buttons, 'Back' and 'Next'.

Ensure that the **Network Visibility Status** is marked as Visible so that the 4G Combo appears on Wi-Fi network searches.

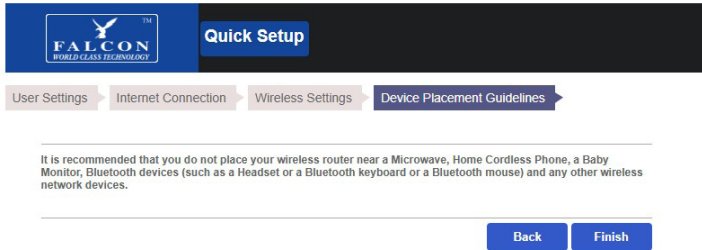
Press **Unmask Password** if you wish to view the password entered.

Click **Next** to save the new settings and continue the Quick Setup.

Web Interface - Quick Setup

Screen 4 - Device Placement Guidelines

The final step of the Quick Setup is some information regarding the placement of Wi-Fi Routers to ensure you avoid any general interference from the surrounding environment.



Click **Finish** to complete the Quick Setup of the Falcon 4G Combo.

NOTE:

Make a note of any new Wifi Names, Usernames & Passwords and keep them secure and away from the Falcon 4G Combo.

Once the Quick Setup has been completed, please ensure that all devices are reconnected to the Falcon 4G Combo with the newly created Wi-Fi name and password.

Web Interface - Internet

Internet Connection

The Internet Connection screen is used to configure the router Internet Connection type.

The screenshot shows the Falcon router's web interface. The top navigation bar includes 'Home', 'Internet' (selected), 'LAN Setting', 'WiFi', and 'Advance Setting'. The left sidebar lists various settings: 'Internet Connection' (selected), 'IP Type', 'BAND', 'PING Configuration', 'Auto Reboot', 'PIN Management', 'Manual Network', and 'USSD'. The main content area is titled 'Internet Connection' and contains the following settings:

- Network Mode:** A dropdown menu currently set to '4G/3G'.
- Preferred LTE Type:** A dropdown menu currently set to 'TD-LTE Preferred'.
- Connection Mode:** A dropdown menu currently set to 'Auto'. To its right is a checkbox labeled 'prohibit automatic dial-up in the roaming status'.
- Auto APN:** A checkbox labeled 'Auto Configure APN' which is checked.
- PON1 Settings:** A section header for 'Manual APN Settings'.

A 'Save' button is located at the bottom right of the configuration area.

Network Mode -

4G/3G/2G multimode - All the network mode is enabled

4G only - Only 4G is enabled

4G/3G only - Only 4G and 3G is enabled

3G/2G only - Only 3G and 2G is enabled

Disable NW settings - All the network is disabled

Preferred Network Mode -

4G Preferred - The device will attach to 4G network as prefer

3G/2G Preferred - The device will attach to 3G/2G network as prefer

Selected Profile -

These Profiles will be displayed below with Profile Name, APN Name and Connection Mode, and you can also add new Profile which will be displayed on drop-down menu of Selected Profile.

Auto Configure APN -

With Auto Configure APN selected, the router will attempt to use the SIM providers APN Settings (Access Point Name) to access the internet.

If the APN settings are not available automatically, the APN settings may need to be manually inputted. See next page for details.

Web Interface - Internet

Manual APN Settings

If Manual APN settings are required to be entered to access the internet , these can be entered by disabling **Auto Configure APN** and inputting the manual APN settings for the SIM provider.

The screenshot displays the Falcon Web Interface for configuring internet settings. The left sidebar shows a menu with 'Internet Connection' selected. The main area is divided into two sections: 'Internet Connection' and 'PDP Setting'. The 'Internet Connection' section includes options for Network Mode (4G/3G), Preferred LTE Type (TD-LTE Preferred), Connection Mode (Auto), and Auto APN (checked). The 'PDP Setting' section contains fields for PDP connection name (PDN1), 2G/3G APN Name (everywhere), LTE APN Name (everywhere), IP type (IPv4v6), Enable QoS (unchecked), 2G3G Authentication Type (PAP), 2G3G User Name (eeseecure), 2G3G Password (secure), LTE Authentication Type (PAP), LTE User Name (eeseecure), and LTE Password (secure). An 'OK' button is located at the bottom right of the PDP Setting section.

SIM Provider APN settings are readily available by a simple internet search. Enter the SIM provider name and APN into a search engine and follow use the details to complete the manual setup.

Click **OK** to save the new APN settings. Check for connectivity.

Below is a list of some popular SIM Provider APN Settings:

Name	Username	Password	Access Point Name (APN)
EE	eeseecure	secure	everywhere
O2	o2web	password	mobile.o2.co.uk
Sky Mobile			mobile.sky
Three			three.co.uk
Vodafone PAYG	wap	wap	pp.vodafone.co.uk
Vodafone	wap	wap	wap.vodafone.co.uk
Virgin Mobile			goto.virginmobile.uk
Tesco Mobile	tescowap	password	prepay.tesco-mobile.com
Smarty			mob.asm.net
Lebara Internet	wap	wap	uk.lebara.mobi
Giffgaff	gg	p	giffgaff.com

Web Interface - Internet

IP Type

There are two different versions of the IP addressing system used to identify devices on the internet (IPv5 and IPv6). Most SIM providers utilise both protocols, however there are some that only use a particular IP Type. From this menu, the correct protocol(s) can be selected.

The screenshot shows the 'Internet' tab selected in the top navigation bar. On the left sidebar, 'IP Type' is highlighted. The main content area has a title 'IP Type' and a dropdown menu currently set to 'IPv4'. A 'Save' button is located at the bottom right of the section.

BAND

The 4G Combo is configured to run on a range of LTE Bands. The Band screen will advise the current band being used by the 4G Combo and also allows the router to be locked to a certain band(s). Click the bands to lock or unlock them.

The screenshot shows the 'BAND' section of the 'Internet' settings. It displays 'Current BAND' as 'FDD 3'. Below, there is a 'Lock BAND' section with a grid of buttons for various bands: FDD 1, FDD 3, FDD 7, FDD 8, FDD 20, FDD 28, TDD 38, TDD 40, and TDD 41. A 'Save' button is at the bottom right.

PING Configuration

Indicates the strength of the network connection between your device and the router. You can use the ping command to test a connection

The screenshot shows the 'PING Configuration' section. It has a title 'PING Configuration' and a 'PING State' dropdown menu currently set to 'Disabled'. A 'Save' button is at the bottom right.

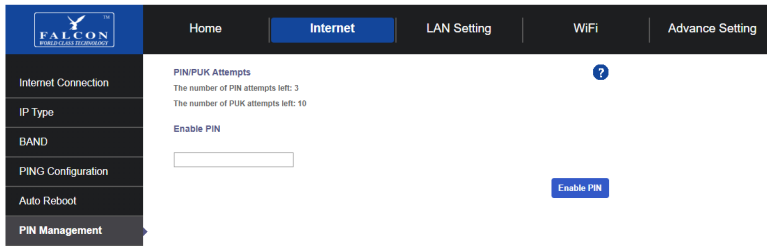
Auto Reboot

The 4G Combo can be set to reboot automatically after any changes. Enable Auto Reboot if required.

The screenshot shows the 'Auto Reboot' section. It has a title 'Auto Reboot' and a 'State' dropdown menu currently set to 'Disabled'. A 'Save' button is at the bottom right.

Web Interface - Internet

Pin Management



The Pin Management screen allows use of a SIM Pin Lock for the 4G Combo. If a SIM Pin Lock is enabled, the PIN will need to be entered before use of the router. It is recommended that this remains disabled , but the option is available to enable it for additional security.

The PIN Management Screen contains the following fields:

PIN/PUK Attempts - display the number of PIN attempts and PUK attempts. The default number of PIN attempts is 3, and PUK attempts is 10; if PIN attempts larger than 3, it will require PUK to unlock the SIM card, and if PUK attempts larger than 10, the SIM card will be abandoned. When you input PIN code to enable or disable PIN, if input wrong PIN code, the number of PIN attempts will decrease by 1, same as PUK.

Enable/Disable PIN - Enable PIN: Input correct PIN code and press the right button, PIN will be enabled successfully, and the right button will display as "Disable PIN". Disable PIN: Input correct PIN code and press the right button "Disable PIN", PIN will be disabled successfully, and the right button will display as "Enable PIN".

Change PIN - Enter current PIN, then Enter New PIN and press "Save" button, the PIN will be changed.

Web Interface - Internet

Manual Network

The screenshot shows the Falcon Web Interface with the 'Internet' tab selected. The left sidebar contains a menu with options: Internet Connection, IP Type, BAND, PING Configuration, Auto Reboot, PIN Management, and Manual Network (which is highlighted). The main content area is titled 'Manual Network' and includes a 'Manual Scan Network' button. Below this is a 'Selectable Network:' dropdown menu currently set to 'Auto'. A checkbox labeled 'I want to manually select network when system start' is unchecked. The 'LTE background scan network time' is set to '5 minutes' in a dropdown menu. The 'Current Select Network Mode' is 'Automatic Mode'. A 'Save' button is located at the bottom right of the form.

The Manual Network Screen allows a manual scan of local network operators to select the network to use.

Manual Scan Network button - Click the button will trigger router to scan network operators. The scan results will be displayed on drop-down menu of "Selectable Network".

This screenshot shows the 'Manual Network' screen with a red status message 'Searching network, please waiting...' next to the 'Selectable Network:' dropdown. A 'Reminder' dialog box is overlaid on the screen, stating 'Network scan completed. You can choose network now!' with 'OK' and 'Save' buttons. The background settings remain the same as in the previous screenshot.

Selectable Network - Then network operators will be displayed after click the Manual Scan Network button, choose one network operator and save, the router will connect to the selected network if no error happens. Manually select network when system start - choose the option "I want to manually select network when system start", the network should be selected manually when system start.

LTE background scan network time - On drop-down menu, you can choose the interval time and save. Then the interval time to LTE background scanning will be configure to router.

If required, select a network manually and press **Save**.

Web Interface - LAN Setting

DHCP (Dynamic Host Configuration Protocol)

The screenshot shows the 'LAN Setting' page in the Falcon Web Interface. The left sidebar has 'DHCP Settings' and 'Connected Devices'. The main area is titled 'DHCP Settings' and contains the following fields and options:

- DHCP Range:** 192.168.1.1 - 254
- Router LAN IP:** 192.168.1.254
- DHCP Server:** ☒ Enabled ☐ Disabled
- DHCP Start Address:** 192.168.1.1
- DHCP End Address:** 192.168.1.200
- DHCP Lease Time:** 86400 (in Seconds)
- DNS Configure Switch:** Disabled
- DNS1 IP Address:**
- DNS2 IP Address:**
- Add Static IP:** (button)
- Table:** A table with columns 'MAC Address' and 'IP Address'. It shows 'No entries found'.
- DHCPV6 Settings:** ☒ Stateless Server ☐ Stateful Server
- Save:** (button)

DHCP Settings

The Home Network screen displays the DHCP settings and allows users to define IP Addresses range to be assigned to the network devices. The DHCP assigns dynamic IP addresses to devices on a network. DHCP ensures that network devices can have a different IP address every time the device connects to the network. The Home Network screen is used to configure the built-in DHCP Server to assign IP addresses to the computers and other devices on the user's LAN.

DHCP Range - Selects the basic IP address range, in which the start and the end DHCP IP addresses range are assigned.

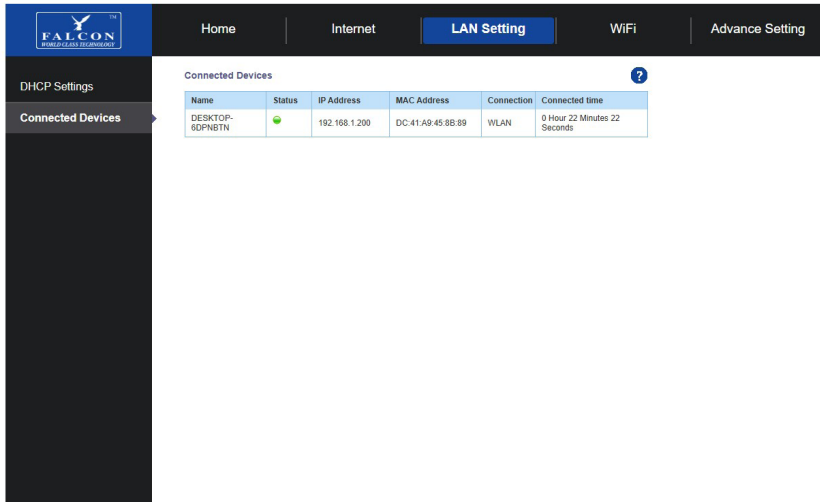
Start DHCP Address and End DHCP Address - Defines a range of addresses that the DHCP Server uses when assigning addresses to computers and devices on your Local Area Network.

NOTE

Altering a network's Dynamic Host Configuration Protocol (DHCP) settings should only be done by someone who understands how they work, as incorrect changes can significantly disrupt network connectivity for all devices on your network.

Web Interface - LAN Setting

Connected Devices



The screenshot shows the Falcon Web Interface with the 'LAN Setting' tab selected. On the left sidebar, 'Connected Devices' is highlighted. The main content area displays a table titled 'Connected Devices' with a help icon. The table lists one device: DESKTOP-6DPN8TN, which is online (green dot), has IP address 192.168.1.200, MAC address DC:41:A9:45:8B:89, is connected via WLAN, and has been connected for 0 Hour 22 Minutes 22 Seconds.

Name	Status	IP Address	MAC Address	Connection	Connected time
DESKTOP-6DPN8TN		192.168.1.200	DC:41:A9:45:8B:89	WLAN	0 Hour 22 Minutes 22 Seconds

The Connected Devices screen displays a list of devices that are connected to the network. The Connected Devices screen also allows the user to block access to the Internet to a specific device.

Connected Devices

Name - Device name

IP Address - Device IP address

MAC Address - Device MAC address

Connection - Device connection type

Web Interface - WiFi

Wireless Settings

The screenshot shows the 'Wireless Settings' page in the Falcon web interface. The sidebar on the left has 'Wireless Settings' highlighted. The main content area is titled 'Wireless Settings' and contains the following configuration options:

- Status: ☒ Enabled ☐ Disabled
- 802.11 Mode: 802.11 a (dropdown)
- Channel Bandwidth: Automatic (20/40 MHz) (dropdown)
- Primary Channel: Automatic (dropdown)
- Secondary Channel: Above (dropdown)
- Band40 ACS Switch: ☒ Enabled ☐ Disabled
- Maximum Simultaneous Clients: 16 (dropdown)
- Beacon Period Setting: 100 (in msec(50-4000))
- DTIM Interval Setting: 1 (1-100)
- AP Isolate Switch: Close (dropdown)

A 'Save' button is located at the bottom right of the configuration area.

Wireless Settings

The Wireless screen allows you to configure the parameters needed for the wireless network.

802.11 Mode - Currently the router only provides 802.11b/g mode

802.11b/g - Allows all 802.11b or g devices (in the 2.4 GHz) to connect to the router.

802.11n and devices operating in the 5GHz range cannot connect.

Channel - Selects the 802.11 frequency that the router uses. Allows the router to select the optimal frequency to use given the radio environment in the vicinity of the router.

Channel Bandwidth - Enable users to control the trade off between performance and interference with other WiFi users.

Maximum Simultaneous Clients - Enable users to control the maximum simultaneous clients connected to router.

Web Interface - WiFi

WiFi Auto OFF Time Setting - Enable users to control the Interval time to turn WIFI off automatically when no client is connected to router.

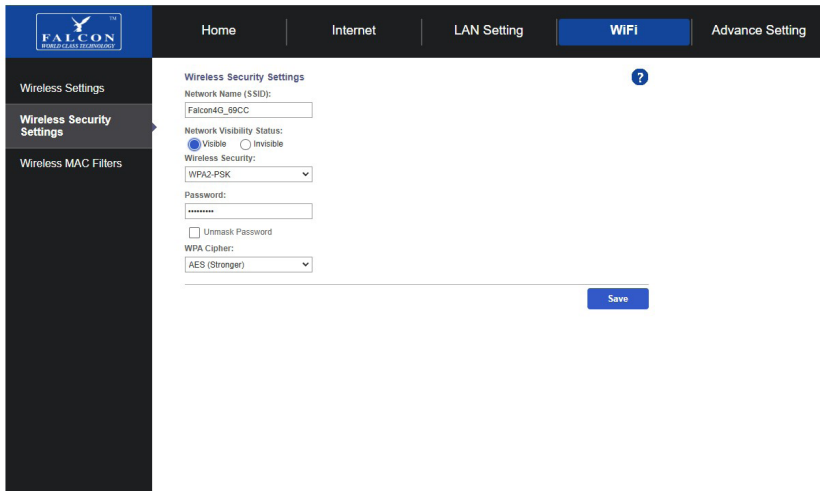
Primary Channel and Secondary Channel - When Wi-Fi uses the 40Mhz bandwidth, there are two channels(one is primary channel, the other is secondary channel).

Band40 ACS Switch - when LTE use band 40, Wi-Fi will use channel 6,7,8,9,10, this will avoid conflict with LTE band 40.

Beacon Period Setting - Set Wi-fi's beacon period.

DTIM Interval Setting - Set wifi's DTIM interval.

Wireless Security Settings



The screenshot shows the 'Wireless Security Settings' page in the Falcon router web interface. The interface has a dark theme with a top navigation bar containing 'Home', 'Internet', 'LAN Setting', 'WiFi' (selected), and 'Advance Setting'. A left sidebar lists 'Wireless Settings', 'Wireless Security Settings' (selected), and 'Wireless MAC Filters'. The main content area is titled 'Wireless Security Settings' and includes a help icon. The settings are as follows:

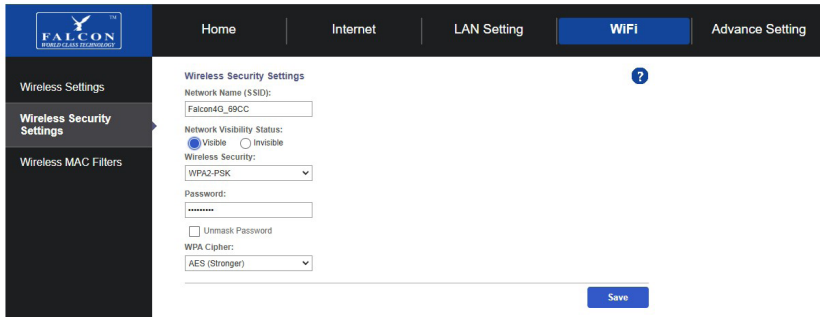
- Network Name (SSID): Falcon4G_99CC
- Network Visibility Status: ☒ Visible ☐ Invisible
- Wireless Security: WPA2-PSK
- Password: [masked with asterisks]
- ☐ Unmask Password
- WPA Cipher: AES (Stronger)

A 'Save' button is located at the bottom right of the settings area.

The Wireless Security section allows users to define the network as well as the security parameters for the wireless home network as required. The factory default setting for security is WPA-WPA2 Mixed mode that allows only the WPA/WPA2 devices to associate with the 4G Combo.

Web Interface - WiFi

Wireless Security Settings



The screenshot shows the 'Wireless Security Settings' page of a Falcon router's web interface. The interface has a dark blue header with the 'FALCON' logo and navigation tabs: Home, Internet, LAN Setting, WiFi (selected), and Advance Setting. A left sidebar contains links for Wireless Settings, Wireless Security Settings (selected), and Wireless MAC Filters. The main content area is titled 'Wireless Security Settings' and includes a help icon. The settings are as follows:

- Network Name (SSID): Falcon4G_99CC
- Network Visibility Status: ☒ Visible ☐ Invisible
- Wireless Security: WPA2-PSK (dropdown)
- Password: [masked with dots]
- ☐ Unmask Password
- WPA Cipher: AES (Stronger) (dropdown)
- Save button

Network Name -- Used to change the name of your wireless network. This name appears in window's, Macintosh, Linux or in other known networks. Once again the Network Name and Password can be updated here as they were in the **Quick Setup**.

Wireless security

Disabled - No wireless security. All traffic may be read by others

WPA2-PSK - The highest Level of Security. Passwords should be at least 8 characters and contain characters besides letters and numbers such as , #, @, % & etc. Only devices that support WPA2-PSK may associate. WPA2 Cipher is AES.

WPA-PSK - The highest Level of Security. Passwords should be at least 8 characters and contain characters besides letters and numbers such as , #, @, % & etc. Only devices that support WPA-PSK may associate. WPA2 Cipher is AES.

WPA-WPA2 Mixed - WPA2-PSK or WPA-PSK Security method depending on the device that needed to connect. Passwords should be at least 8 characters and contain characters besides letters and numbers such as , #, @, % & etc. WPA2 Cipher is AES. WPA Cipher is TKIP/ AES.

WEP - The WEP Security is used if the devices that use the router do not support WPA or WPA2. WEP security is based on a fixed size password.

Password - A User defined password. Passwords should be at least 8 characters long.

Web Interface - Wifi

Wireless MAC Filters

The screenshot shows the Falcon Web Interface with the 'WiFi' tab selected. In the left sidebar, 'Wireless MAC Filters' is highlighted. The main content area shows 'Wireless MAC Filters' with a help icon (?). Below it, 'MAC Filters' has two radio buttons: 'Enabled' (unselected) and 'Disabled' (selected). A 'Save' button is located to the right of the 'Disabled' option.

The MAC address filter option allows devices to be allowed or blocked from the network on the 4G Combo.

When enabled, specific devices MAC network addresses can be allowed or denied to join the 4G Combo.

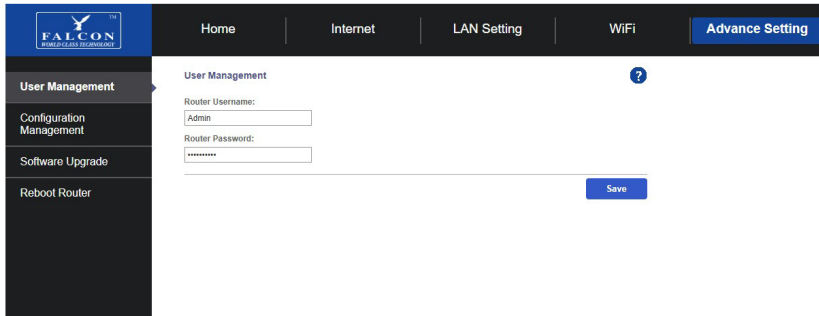
This screenshot shows the 'Wireless MAC Filters' settings with 'MAC Filters' set to 'Enabled' and 'Mode Settings' set to 'Deny'. Below these settings, there is a 'Deny List' section with a table header 'Wireless Client MAC Address' and a placeholder 'No entries found.'. An 'Add' button is located to the right of the table.

This screenshot shows the 'Wireless MAC Filters' settings with 'MAC Filters' set to 'Enabled' and 'Mode Settings' set to 'Allow'. A modal dialog box titled 'Add MAC Filter' is open, prompting for a 'MAC Address' in the format 'XX-XX-XX-XX-XX-XX'. The dialog has 'Add' and 'Cancel' buttons.

Enter the MAC address of the device and click [Add](#).

Web Interface - Advanced Settings

User Management



The screenshot shows the Falcon Web Interface. The top navigation bar includes 'Home', 'Internet', 'LAN Setting', 'WiFi', and 'Advance Setting' (highlighted in blue). The left sidebar contains 'User Management' (highlighted), 'Configuration Management', 'Software Upgrade', and 'Reboot Router'. The main content area is titled 'User Management' and contains a form with two fields: 'Router Username:' with the value 'Admin' and 'Router Password:' with masked characters. A 'Save' button is located at the bottom right of the form.

The User Management function can be used to change the Web Interface Admin Username and Password for the 4G Combo.

To change the 4G Combo Web Interface login details, enter a new Username and Password in the required fields and click Save.

NOTE:

If the new login details are lost or forgotten, the 4G Combo will need to be reset back to the default settings by Restoring Factory Settings.

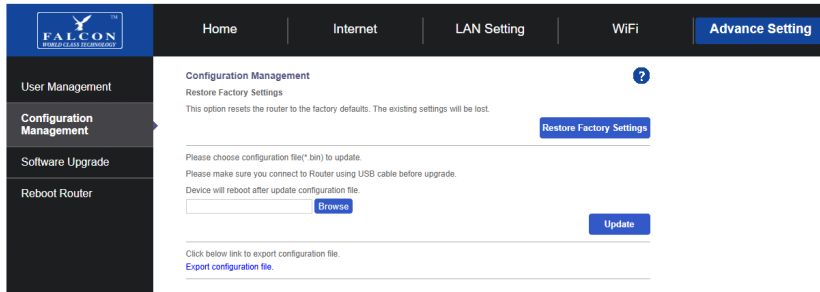
4G COMBO FACTORY SETTINGS RESET

To perform a Factory Reset of the 4G Combo. Remove the base plate. With the 4G Combo Powered, using a pen or similar Press the **RESET** button for **10 seconds**.



Web Interface - Advanced Settings

Configuration Management - Restore Factory Settings



If logged into the Web Interface already and a Factory Settings Reset is required, this can be initialised from the Configuration Management menu tab.

To restore the 4G Combo back to Factory Settings, click the Restore Factory Settings button.

NOTE:

Performing a Factory Reset will lose all existing settings and restore the 4G Combo back to Factory Settings. All updated WiFi SSID's and passwords will be lost.

To reconnect the 4G Combo after a Factory Reset, refer to the rear label of the router for login details.

The 4G Combo will reset to:

WiFi Name : Falcon4G_XXXX (XXXX - 4 unit specific characters)

WiFi Password: F@1con_99

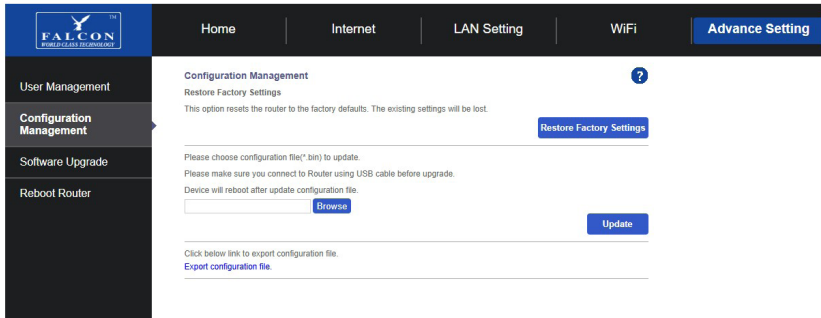
Web Interface Login:

Username: Admin

Password: Fa1c0n4GV3

Web Interface - Advanced Settings

Configuration Management - Configuration Update



The 4G Combo has the facility to update the unit configuration via a *.bin file type.

To perform a configuration update, ensure that you have the correct *.bin file and that the 4G Combo is connected to a PC via a USB data cable.

Configuration Management - Configuration Export

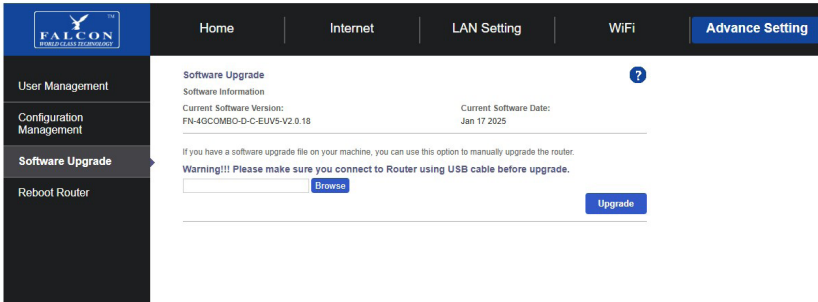
It is possible to also export the configuration settings to a file.

Again, ensure that the 4G Combo is connected to a PC via a USB data cable.

Click [Export Configuration File](#).

Web Interface - Advanced Settings

Software Upgrade



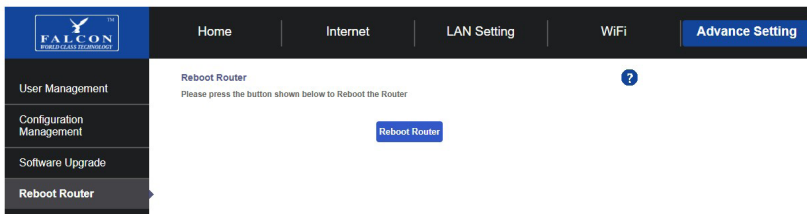
The 4G Combo can perform a Software Upgrade where available.

To perform a Software Upgrade, ensure that the 4G Combo is connected to a PC via a USB data cable.

When logged into the Web Interface, navigate to Advanced Settings > Software Upgrade and click **Browse** to choose the new software file.

Click **Upgrade** to start the software upgrade, Ensure that the 4G Combo remains powered on during the upgrade. Once completed the router will automatically reboot.

Reboot Router



The 4G Combo can be rebooted from the Web Interface. This will reboot the router but will not reset any settings that have been updated.

Navigate to **Advanced Settings > Reboot Router** and click **Reboot Router**.

Troubleshooting

The 4G Comb has no power

Check that the power source is live and that the power lead is connected correctly between the socket and the 4G Combo. Check that the lights on the side of the unit are illuminated. If there is no power, try another power source and alternative cable from the kit.

The SIM card is not recognised

Ensure the SIM card has been inserted correctly, [See Page 5](#) for details on inserting the SIM.

If the SIM card has a PIN lock, contact the SIM provider to unlock it or insert the SIM into a phone and follow the SIM lock instructions to unlock.

If the 4G Combo has not automatically recognised the SIM provider APN settings, these may need to be inputted manually. [See Page 12](#) for details on how to manually input an APN setting.

If using a PAYG SIM (Pay As You Go), ensure that the SIM card is activated and registered with credit and a data pack enabled before use.

WiFi Network connection issues

Ensure that WiFi is enabled on the device you are attempting to connect to the 4G Combo. Select **Falcon4G_XXXX** (XXXX - 4 digit identifier) or an alternative name if the unit has been renamed in the Web Interface.

Check the Password is correct - **Default Password: F@1con_99**
Or an alternative password if this has been set in the Web Interface.
(Passwords are case sensitive).

Reboot the 4G Combo by disconnecting the power and reconnecting after 30 seconds.

Check that Wifi has not been disabled or settings changed incorrectly in the Web Interface. If unsure, perform a Factory Reset to restore settings to default.

Troubleshooting

Weak Signal or slow connection

Although the 4G Combo antennas are omni-directional, placement is a factor. Ensure that the 4G Combo is mounted as high as possible where possible and away from thick walls or metallic objects.

SIM provider coverage can be a cause of weak or slow signal. Although the benefit of a 4G Combo is that it is amplified and creates a greater reach to a nearest 4G Mast, if the SIM provider coverage is poor or in a location where the nearest mast is extremely far away, then signal or connection speed may suffer. Confirm that the SIM provider has good overall coverage or consider a different SIM provider.

The 4G Combo can connect up to 10 devices at a time on Wifi. The more devices connected drawing bandwidth from the router will affect the overall performance of the bandwidth as it is shared between devices. To maximise performance, limit the number of devices connected to the 4G Combo simultaneously.

Can't access the Web Interface

Ensure that the device is connected to the 4G Combo via Wifi. A Local connection is required to gain access to the Web Interface.

Open a browser window on a PC, Tablet or phone and type
192.168.1.254

Input the Web Interface Username & Password:

Default:

Username: Admin

Password: Fa1c0n4GV3

If the Web Interface does not open, try a different browser or connected a different device to the router and reconnect.

Troubleshooting

Forgotten a Username or Password

If the 4G Combo WiFi Name or Password has been changed and has been forgotten, use the Web Interface to change these within the Wireless Security menu.

If the Web Interface Admin Username and Password has been changed and has been forgotten, Perform a Factory Settings Restore.

See below for details of how to perform a Factory Settings Reset without the Web Interface.

Factory Reset (Restore Factory Settings

If an amended Admin username & Password has been forgotten

Open the base of the 4G Combo. Ensure there is power to the unit and using a pen or similar, press the **RESET** button for 10 Seconds

If the Web Interface is still accessible

Open the Web Interface and login using the Username and Password. Navigate to **Advanced Setting > Configuration Management** Click **Restore Factory Settings**.

Note: All settings will be restored back to factory defaults.

Further Support

If further assistance or support is required with the 4G Combo Contact our support department via the details below

Falcon Product Support: cs1@falcontechanical.co.uk

UK Website: <https://falcontechtechnology.co.uk>

EU Website: <https://falcontechtechnology.eu>

Additional Languages



If the user manual is required in other languages, a digital copy can be accessed and downloaded using the below QR Codes.



Si le manuel d'utilisation est requis dans d'autres langues, une copie numérique peut être consultée et téléchargée à l'aide des codes QR ci-dessous.



Si se requiere el manual del usuario en otros idiomas, se puede acceder y descargar una copia digital utilizando los siguientes códigos QR.



Se il manuale utente è richiesto in altre lingue, è possibile accedere e scaricare una copia digitale utilizzando i codici QR riportati di seguito.



Other Falcon Products

FALCON WEBOS MULTI-VOLTAGE
SMART CAMPING TV RANGE



FALCON PPS1200 - 1200W
PORTABLE POWER STATION



FALCON LIGHTWEIGHT
SOLAR PANELS FOR PPS1200



FALCON LIFEPO4 LITHIUM
LEISURE BATTERIES



Declaration Of Conformity



Declaration of Conformity

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Product:

Falcon 4G Combo

Description:

Falcon 4G Combo

4G Router and Antenna Combination: 4G / 3G / 2G 2*MIMO

The object of the declaration described above is in conformity with the following directives and standards:

RE Directive (2014/53/EU)

ROHS Directive (2011/65/EU)

EMC Standards:

Article 3.1 (a) Protection of health and safety

EN IEC 62368-1:2020

EN62479:2010

Article 3.1 (b) Electromagnetic compatibility

ETSI EN 301 489-1 V2.2.3(2019-11)

ETSI EN 301 489-17 V3.2.4(2020-09)

Article 3.2 (a) Effective use of the spectrum

ETSI EN 300 328 V2.2.2(2019-07)

Article 3.2 (b) Effective use of the spectrum

EN62479:2010

Signed: _____

Christopher Williams 17 / 02/ 2025
Managing Director - Falcon Technical Ltd



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