

Mobile Air

MR868-3G Wireless Router

USER MANUAL

Europe – EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:













- EN 60950-1: 2009
- EN 62311: 2008
- EN 300 328 V1.7.1 (2006-10)
- EN 301 489-17 V2.1.1 (2009-05) and EN 301 489-1 V1.8.1 (2008-04)






This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries, except in France and Italy where restrictive use applies.

In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.

This device may not be used for setting up outdoor radio links in France and in some areas the RF output power may be limited to 100 mW EIRP in the frequency range of 2412 – 2472 MHz. For detailed information the end-user should contact the national spectrum authority in France.



 Český [Czech]	<i>Aiconn</i> tímto prohlašuje, že tento <i>3G router</i> je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
 Dansk [Danish]	Undertegnede <i>Aiconn</i> erklærer herved, at følgende udstyr <i>3G router</i> overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
 Deutsch [German]	Hiermit erklärt <i>Aiconn</i> ,dass sich das Gerät <i>3G router</i> in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
 Eesti [Estonian]	Käesolevaga kinnitab <i>Aiconn</i> seadme <i>3G router</i> vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
 English	Hereby, <i>Aiconn</i> , declares that this <i>3G router</i> is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
 Español [Spanish]	Por medio de la presente <i>Aiconn</i> declara que el <i>3G router</i> cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
 Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ <i>Aiconn</i> ΔΗΛΩΝΕΙ ΟΤΙ <i>3G δρομολογητή</i> ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
 Français [French]	Par la présente <i>Aiconn</i> déclare que l'appareil <i>3G router</i> est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
 Italiano [Italian]	Con la presente <i>Aiconn</i> dichiara che questo <i>3G router</i> è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Latviski [Latvian]	Ar šo <i>Aiconn</i> deklarē, ka <i>3G router</i> atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]	Šiuo <i>Aiconn</i> deklaruoja, kad šis <i>3G router</i> atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
 Nederlands [Dutch]	Hierbij verklaart <i>Aiconn</i> dat het toestel <i>3G router</i> in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
 Malti [Maltese]	Hawnhekk, <i>Aiconn</i> ,jiddikjara li dan <i>3G router</i> jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
 Magyar [Hungarian]	Alulírott, <i>Aiconn</i> nyilatkozom, hogy a <i>3G router</i> megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.

 Polski [Polish]	Niniejszym <i>Aiconn</i> oświadcza, że <i>3G router</i> jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
 Português [Portuguese]	<i>Aiconn</i> declara que este <i>3G router</i> está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
 Slovensko [Slovenian]	<i>Aiconn</i> izjavlja, da je ta <i>3G router</i> v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	<i>Aiconn</i> týmto vyhlasuje, že <i>3G router</i> spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
 Suomi [Finnish]	<i>Aiconn</i> vakuuttaa täten että <i>3G router</i> tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
 Svenska [Swedish]	Härmed intygar <i>Aiconn</i> att denna <i>3G router</i> står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IEEE 802.11b or 802.11g operation of this product in the U.S.A. is firmware-limited to channels 1 through 11.

IMPORTANT NOTE:

Radiation Exposure Statement:

The product comply with the US/Canada portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

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Technical Specifications

➤ Dimensions

91.5 mm (L) x 73 mm (W) x 14 mm (H)

➤ Temperature

Operating Temperature: 0°C to +50°C

Operating Humidity: 10% to 90%

Storage Temperature: -20°C to +70°C

Storage Humidity: 5% to 95%

➤ Interface

Type A USB port for 3G dongle

Mini USB for power connectivity (through PC or power adapter)

➤ WLAN

WLAN Mode: 802.11b/g - 2.4GHz

Up To 8 Devices Can Share Wi-Fi Signal

Integrated Wi-Fi Printed Antenna

➤ Security

64/128-bit WEP/WPA-PSK/WPA2-PSK

DHCP Server

Internet Access Control

VPN Pass-Through

MAC Access Control

NAT

Static Dynamic Support

➤ Function

Auto-reconnect

SMS Client

Connection Management System

Save/Restore Settings

Management via HTTP

Firmware Upgrade

➤ Buttons

Power On/Off Slide Switch

Wake Up/Reset to Factory Settings

➤ LED Status Indicators

Power

WLAN

3G Modem Activity

Battery Charging

➤ Battery

Rechargeable Li-Polymer battery, 2000mAh

Working time: 5-6 hours*

Standby time: > 100 hours

➤ Operating Systems Supported

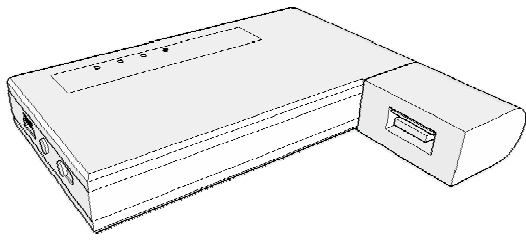
Windows 7, Vista, XP

Linux

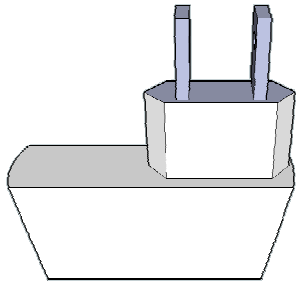
Mac OS

* Working time: Dependent on 3G dongle.

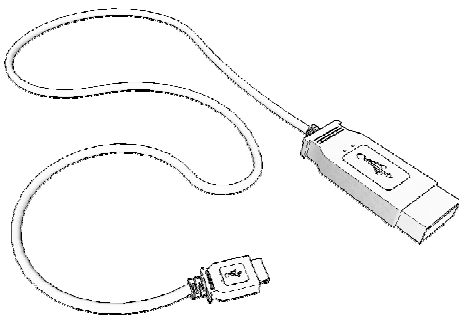
Package Contents



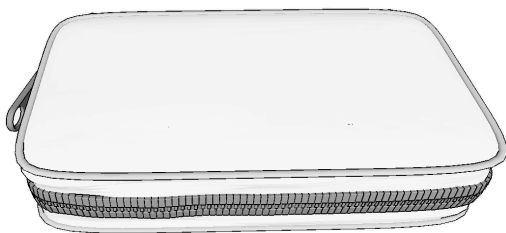
MR868-3G Mobile Air



Power Adapter



USB to mini-USB cable



Travel Pouch

Caution

Using a power supply with a different voltage rating than the one included with the MR868-3G will damage and void the warranty for this product.

Charging Methods

Power Adapter

Attach the USB end of the cable into the port of the power adapter and the other end into the Mini-B USB port of the MR-868 Mobile Air, and then plug the power adapter into a wall socket.

PC or Laptop

To charge via PC or laptop, attach the cable into the USB port of your computer and the other end into the mini-USB port of the MR868-3G Mobile Air.

Car Adapter

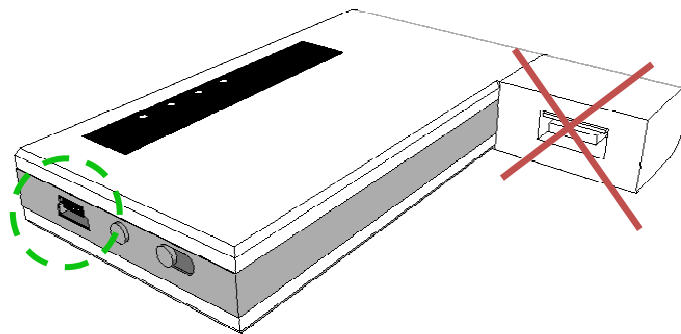
Use the optional car adapter to charge the MR868-3G Mobile Air in your vehicle. Attach the cable into the mini-USB port of router and then plug the car adapter into the socket of the vehicle.

Warning!

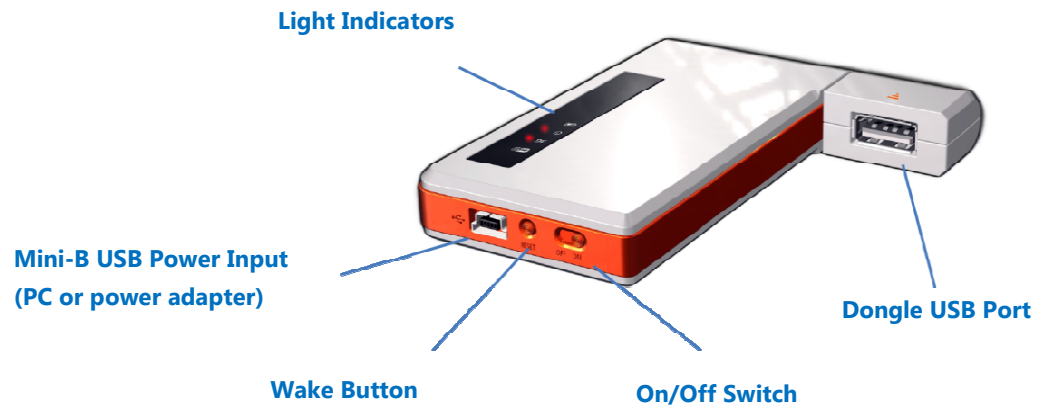
Do not attempt to charge the router via the USB dongle port!

This will cause damage to the router and void the warranty for this product.

Always charge via the mini-USB port using the cable provided.



MR868-3G Mobile Air



Light Indicators



Indicates 3G connection status

WIFI

Indicates Wi-Fi connection status






Power Status



Charging Indicator

LED Status

WIFI	<i>Blinking</i> <i>On</i>	Searching Network <i>Connected to Wi-Fi Network*</i>
	<i>Blinking</i> <i>On</i>	Dialling Network <i>Connected to 3G Network*</i>
	<i>On/Off</i> <i>Blinking</i>	Power Status* <i>Low Battery</i>
	<i>On</i> <i>Off</i> <i>Blinking</i>	<i>Charging</i> <i>Not charging</i> <i>Battery Fault</i>

NOTICE

In order to help conserve battery life, light indicators will automatically turn off after being connected for 10 seconds.
To refresh the light indicators, press the Wake button.

Battery Guide & Charging Tips

NOTICE

*It is recommended **to fully charge the battery for a minimum of 8 hours** before using the MR868-3G Mobile Air for the first time.*

About the battery

- It takes a minimum of 5 hours for the battery to fully charge.
- Battery life will last up to 6 hours depending on usage.
- Battery life lasts up to 100 hours in Standby Mode.

The battery for the MR868-3G Mobile Air will last for up to 6 hours depending on:

- The manufacturer's USB 3G dongle.
- The number of Wi-Fi devices connected.
- Signal strength & Network.
- Online usage & Data transfers.
- Temperature, features, and accessories.

You can use the MR868-3G Mobile Air while it is charging. However, be aware that it may take longer for the battery to become fully charge.

Tips

To maximize the potential of the MR868-3G Mobile Air router's battery, we recommend users to note the following:

- When charging your router, keep it near room temperature
- Avoid leaving the router in direct sunlight
- Allow for frequent full charge and discharge cycles
- Store your router in a cool, dry place.
- Never expose batteries to temperatures below -10°C (14°F) or above 45°C (113°F).
- It is normal for batteries to gradually wear down and require longer charging times.

Antenna Reception

Users can rotate the dongle to improve the wireless 3G reception in weak signal areas.

For optimal reception strength, rotate the dongle to **90 degrees**.

Although the Mobile Router is designed to rotate **to a maximum of 180 degrees**, it is recommended for users not to rotate the dongle beyond **120 degrees**.

Warning!

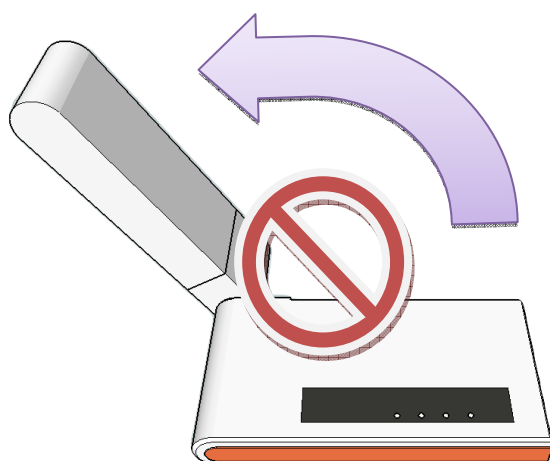
Always rotate the dongle upwards with the light indicator panel of the Mobile Router facing upwards no further than 180 degrees.

Similarly, do not rotate the dongle downwards beyond 45 degrees.

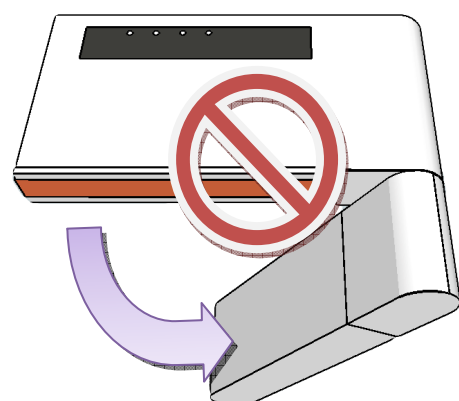
Rotating the dongle beyond these points will damage and void the warranty of the Mobile Router.



*For optimal reception strength,
rotate the dongle to **90 degrees***



***Do not rotate the dongle upwards
beyond 90 degrees***

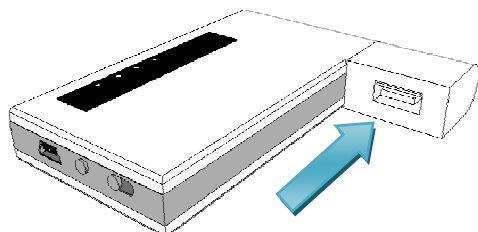


***Do not rotate the dongle downwards
beyond 45 degrees***

Quick Connection & Setup

Connecting to the MR868-3G Mobile Air

- ① Plug in your USB 3G modem



- ② Move the power switch from **OFF** > **ON**.

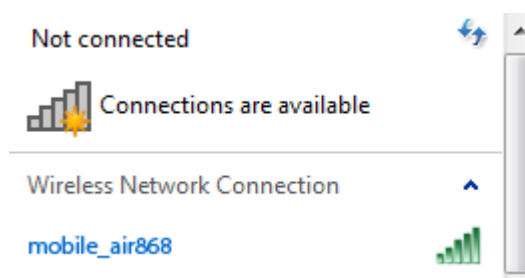


The power LED light will turn on. The Wi-Fi & 3G LED lights will flash.

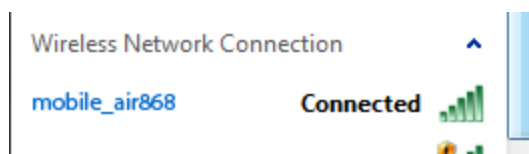
- ③ The lights will stay on once a successful connection has been established.



- ④ Open your wireless network and search for **mobile_air868**



- ⑤ Connect to mobile_air868



NOTICE

You can connect to the MR-868 Mobile Air without configuring any security settings.

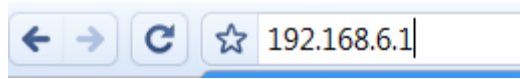
However, it is highly recommend that you enable Wi-Fi security to prevent unauthorized users from accessing your network.

Quick & Advanced Configuration

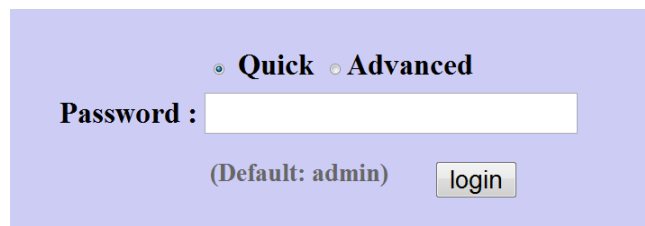
Once you have connected to the MR868-3G Mobile Air you can now login and use the browser interface to configure the router's settings.

To login

1. Open your Web browser. Enter **192.168.6.1** into the address bar and press **Enter** or the **Return** key. You will be directed to the login page for the browser interface.



2. Select the '**Quick**' or '**Advanced**' button on the login page.

A screenshot of the login page for the MR868-3G Mobile Air router. The page has a light blue background. At the top, there are two radio buttons: 'Quick' (selected) and 'Advanced'. Below this is a text input field labeled 'Password :'. Under the input field, it says '(Default: admin)'. To the right of the input field is a 'login' button.

Select the '**Quick**' option to quickly configure the router's basic settings, such as setting the Dial code, APN and wireless security.

For more configuration options, select '**Advanced**' to be directed to the Main Homepage. Users can then navigate through the router's advanced settings to configure MAC addresses, DHCP, Firewall, SMS and Firmware Upgrade.

3. Enter your password & click '**login**'.
(Default password is: '**admin**')

Tips

'Add to Favourite's or **'Bookmark this page'** in your Web browser for faster & easier access.

Quick Configuration Settings

In the 'Quick Settings' window, users can quickly configure the basic 3G & Wireless settings for the MR868-3G Mobile Air.

Firmware v. 1.3.0.2

Quick Setting

3G

Dial Code: *99#

APN Service: internet

wireless

AP name(SSID): KUYKGrrgaxdev

Security mode: WPA-PSK

Mode / Cipher: WPA+WPA2(Auto) / TKIP+CCMP

Password: .uykuk_ikio----

• ASCII : 8-63 characters

Save Cancel

Note: You must reboot the router in order for changes to take effect.

3G

Dial code, APN Service

- Enter the Dial Code for your 3G network
- Enter the APN service name

3G

Dial Code: #9#*

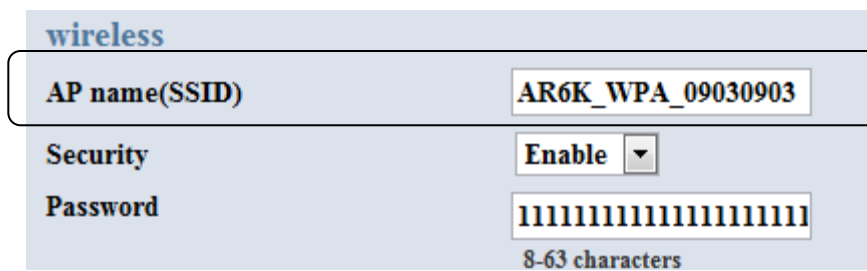
APN Service: internet

The dial code and APN service name should be given to you by your network provider.

If you are not certain, contact your network provider to find out the dial code & APN Service for your region, plus any additional information you may require.

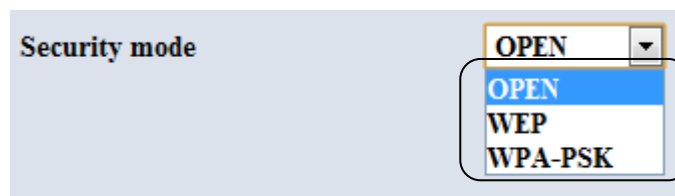
Wireless

- APN (SSID) - This is the Wireless Network's Name. Change it to something unique so that users can easily identify your network.



The image shows a 'wireless' settings section. It contains three fields: 'AP name(SSID)' with the value 'AR6K_WPA_09030903', 'Security' with a dropdown menu set to 'Enable', and 'Password' with the value '11111111111111111111'. Below the password field, it says '8-63 characters'.

- Security - The drop-down menu on the right will give you **Security mode** options. Select which type of the security feature you would like to enable on your wireless network (**OPEN**, **WEP**, or **WPA-PSK**)



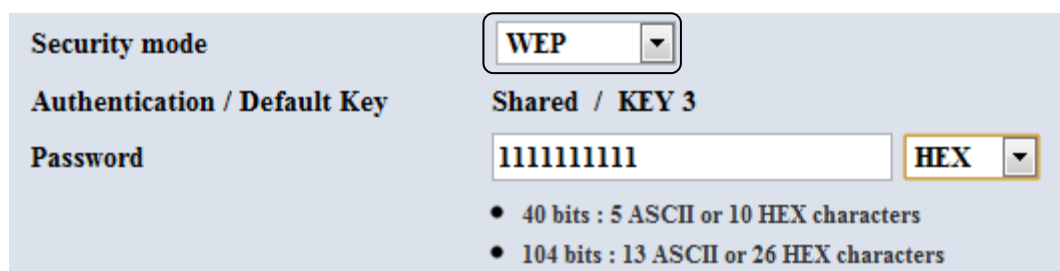
The image shows the 'Security mode' dropdown menu. The current selection is 'OPEN'. The dropdown list shows three options: 'OPEN', 'WEP', and 'WPA-PSK'.

NOTICE

You may leave your network '**OPEN**' to allow access for all users without a network security key. However, this is not recommended.

Selecting '**WEP**'

The configuration window will expand and the following will become visible:



The image shows the expanded 'Security mode' section. The 'Security mode' dropdown is set to 'WEP'. Below it, there are two options: 'Authentication / Default Key' and 'Password'. The 'Authentication / Default Key' dropdown is set to 'Shared / KEY 3'. The 'Password' field contains the value '1111111111'. To the right of the password field is a dropdown menu set to 'HEX'. Below these fields, there are two bullet points: '40 bits : 5 ASCII or 10 HEX characters' and '104 bits : 13 ASCII or 26 HEX characters'.

Authentication / Default Key

This allows you to see the current settings for this configuration (See Advanced Wireless Settings).

Password & HEX / ASCII

Select either HEX or ASCII encryption from the drop-down menu on the right and then set the new password for your wireless network.

Selecting '**WPA-PSK**'

The configuration window will expand and the following will become visible:

Security mode	WPA-PSK ▼
Mode / Cipher	WPA+WPA2(Auto) / TKIP+CCMP
Password	<input type="text" value=".uykuk_ikio----"/>
	• ASCII : 8-63 characters

Mode / Cypher - This allows you to see the current settings for this configuration. (See Advanced Wireless Settings).

Password - Set the new password for your wireless network (ASCII: between 8-63 alphanumeric characters)

NOTICE

Each time you configure the settings, you must reboot the router in order for the changes to take effect.

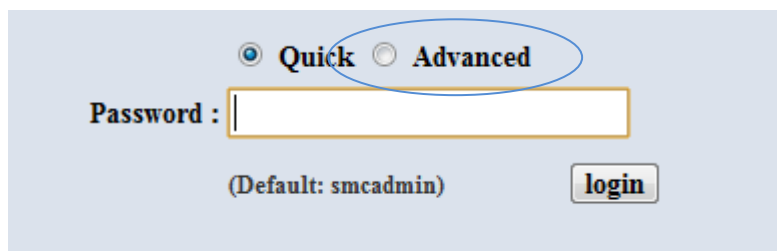
1. Click on the '**Save**' button to save your settings.
2. Click on the '**reboot**' button on the left side of the window.

The screenshot shows the 'wireless' configuration page. On the left is a sidebar menu with options: IP/Port Filtering, MAC Filtering, VPN Pass-Through, SMS, Administrator, and Logout. The 'reboot' button is located at the bottom of this sidebar. The main content area shows 'AP name(SSID)' as 'SMCWPBR-3G' and 'Security mode' as 'OPEN'. Below these fields are 'Save' and 'Cancel' buttons. A red note states: 'Note: You must reboot the router in order for changes to take effect.' Annotations include a blue arrow labeled '①' pointing to the 'Save' button and another blue arrow labeled '②' pointing to the 'reboot' button in the sidebar.

Accessing the Advanced Configuration Settings

You can access the 'Advanced Settings' from the router's Main Homepage, either by:

- ① Selecting the 'Advanced' button on the browser's login page.

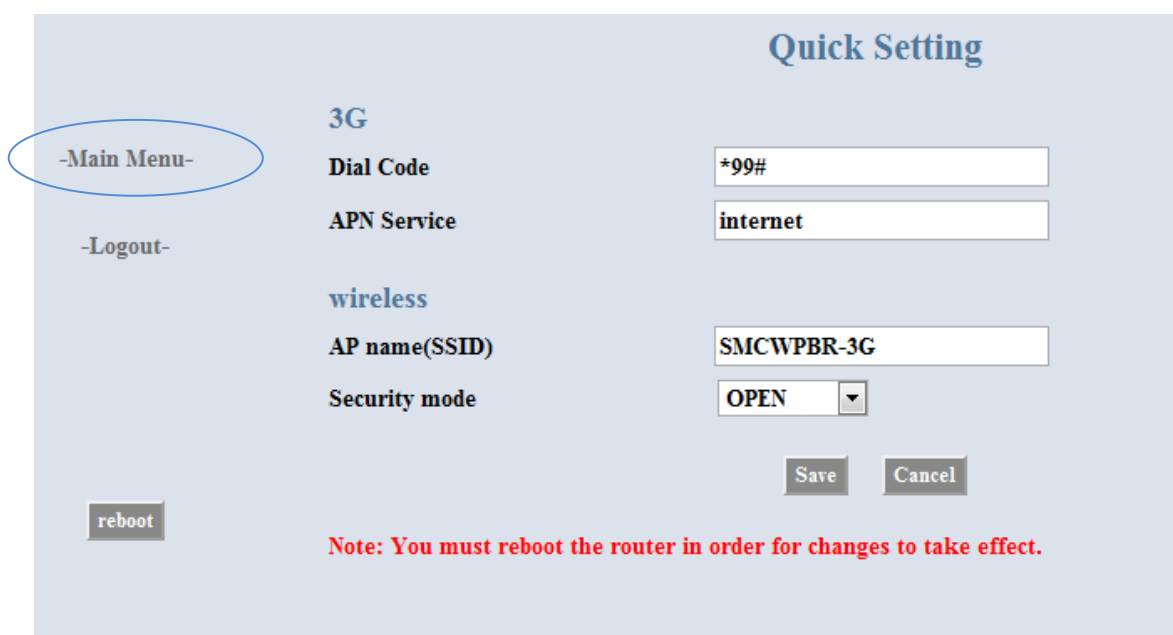


Quick ☒ Advanced ☐

Password :

(Default: smcadmin)

- ② By clicking the 'Main Menu' link from the 'Quick Settings' page.



Quick Setting

-Main Menu-
-Logout-

reboot

3G

Dial Code

APN Service

wireless

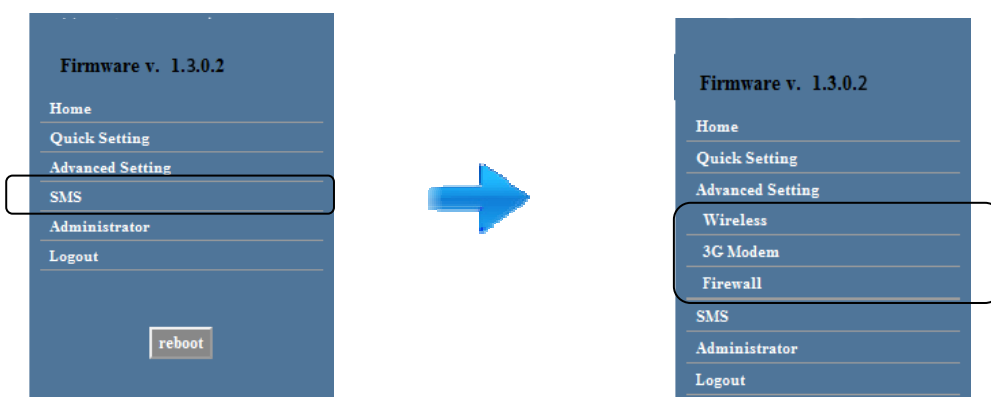
AP name(SSID)

Security mode

Note: You must reboot the router in order for changes to take effect.

Once in the Main Homepage, click on the 'Advanced Settings' tab to expand further configuration options for:

- Wireless
- 3G Modem
- Firewall



Advanced Wireless Settings

Click on 'Advanced Settings' > 'Wireless'.

Firmware v. 1.3.0.2

Home
Quick Setting
Advanced Setting
Wireless
3G Modem
Firewall
SMS
Administrator
Logout

reboot

Wireless Settings

Wireless Network

SSID: KUYKGrrgaxdev

Channel: Auto

Network Mode: 11 b/g mixed

MAC Address: 00:12:CF:44:E1:6A

Wireless Security Policy

Security Mode: OPEN

DHCP Settings

IP Address: 172 . 19 . 5 . 1

Subnet Mask: 255 . 255 . 0 . 0

DNS: 168 . 95 . 1 . 1
8 . 8 . 8 . 8

Power Saving Settings

Power Saving Time (min): 10

Save Cancel

Note: You must reboot the router in order for changes to take effect.

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Note to US model owner: To comply with US FCC regulation, the country selection function has been completely removed from all US models. The above function is for non-US models only.

The page on the right will now give you options to configure the following settings for:

- ① Wireless Network (SSID & Wireless Channels)
- ② Wireless Security Policy (WEP, WPA, WPA2, or open)
- ③ DHCP Settings
- ④ Power Saving Setting

①

Wireless Network

SSID - This is the *Wireless Network's Name*. Change it to something unique for other users to easily identify your network.

SSID	SMCWPBR-3G
------	------------

- Wireless Channel - Click on the drop-down menu to choose Wireless Channels between 1-13.

TIP: Try changing channels to get around interferences.

Preferred channels to use are 1, 6 and 11 since they are considered non-overlapping channels.

Wireless Channel	11
------------------	----

Network Mode - Three wireless operating modes are supported on the router. Click on the drop-down menu to choose **11 b/g mixed**, **11 b-only**, or **11 g-only**.

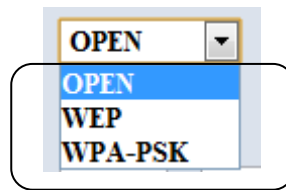
11 b/g mixed
11 b/g mixed
11 b-only
11 g-only

- MAC Address - This is the router's unique ID that can be identified by other devices

MAC Address	00:12:CF:BF:B1:EC
-------------	-------------------

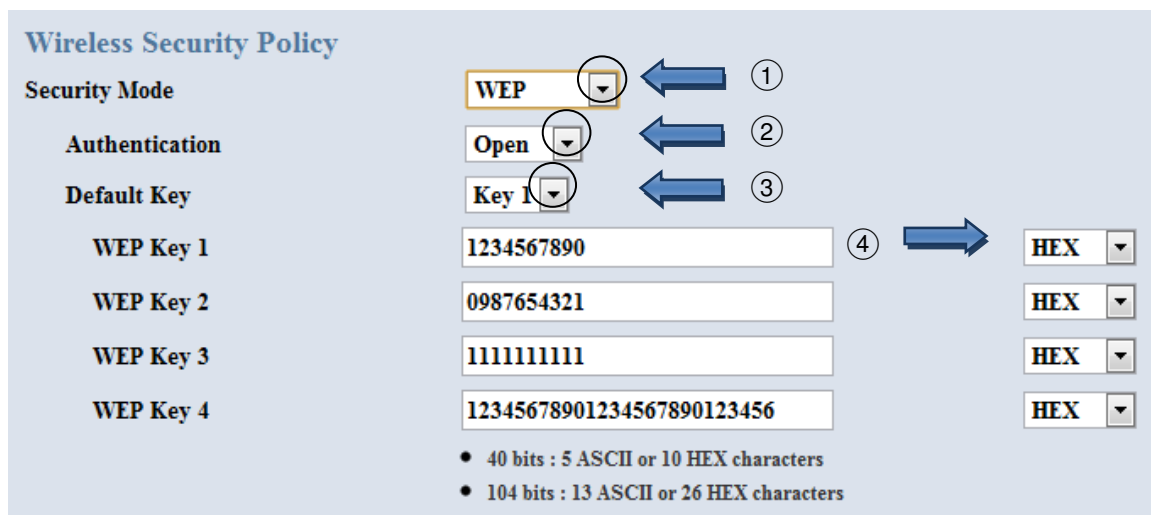
② Wireless Security Policy

Security Mode - Click on the drop-down menu to choose which type of Wireless Security you would like to enable (WEP, WPA-PSK, WPA2-PSK).



- Wired Equivalent Privacy (WEP) - This is a 64-bit key with 10 hexadecimal digits or a 128-bit WEP key with 26 hexadecimal digits. This encryption will prevent other users from connecting to a wireless network using your own WEP key. It will also protect your wireless transmissions/communications from being accessed or received by other users.

To enable WEP, click on the drop-down menu and select 'WEP'. Further security setting options for will become available to you.



Wireless Security Policy

Security Mode

Authentication

Default Key

WEP Key 1: 1234567890

WEP Key 2: 0987654321

WEP Key 3: 1111111111

WEP Key 4: 12345678901234567890123456

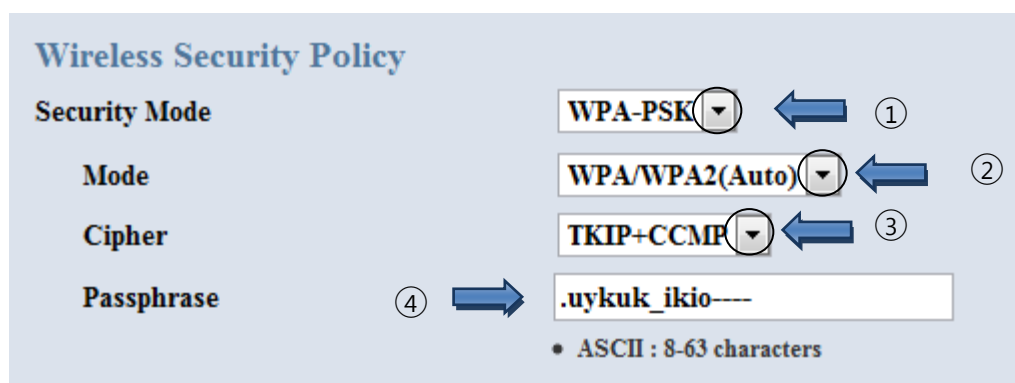
• 40 bits : 5 ASCII or 10 HEX characters

• 104 bits : 13 ASCII or 26 HEX characters

- ① Select 'WEP' from drop-down menu
- ② Choose either 'Open' or 'Shared' key authentication from the 'Authentication' drop-down menu
- ③ Select which WEP Key (1-4) you would like to enable.
- ④ Select HEX or ASCII encryption from the drop-down menu on the right and then type your WEP Key into the box provided.

- Wi-Fi Protected Access Pre Shared Key (WPA-PSK)

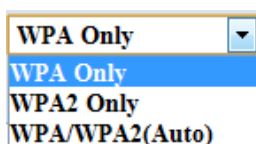
This is a special mode of WPA that provides stronger encryption protection than WEP encryption for users without an enterprise authentication server.



The image shows a 'Wireless Security Policy' configuration window. It has four main sections: 'Security Mode', 'Mode', 'Cipher', and 'Passphrase'. The 'Security Mode' dropdown is set to 'WPA-PSK' (labeled 1). The 'Mode' dropdown is set to 'WPA/WPA2(Auto)' (labeled 2). The 'Cipher' dropdown is set to 'TKIP+CCMP' (labeled 3). The 'Passphrase' text field contains '.uykuk_ikio---' (labeled 4). Below the passphrase field, it says '• ASCII : 8-63 characters'.

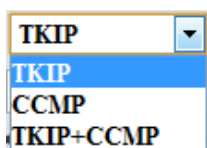
① Select 'WPA-PSK' from the drop-down menu

② Choose which network security '**Mode**' you would like to enable from the drop-down menu



A dropdown menu showing four options: 'WPA Only', 'WPA Only', 'WPA2 Only', and 'WPA/WPA2(Auto)'. The 'WPA/WPA2(Auto)' option is highlighted.

③ Select which '**Cipher**' to enable from the drop-down menu.



A dropdown menu showing four options: 'TKIP', 'TKIP', 'CCMP', and 'TKIP+CCMP'. The 'TKIP+CCMP' option is highlighted.

④ Enter your **Passphrase** (between 8-63 characters).

This will serve as your network key whenever you connect to your wireless network.

DHCP Settings

This is a method for automatically configuring TCP/IP network settings on computers, printers, and other network devices.

DHCP Settings

IP Address

172

.

19

.

5

.

1

Subnet Mask

255 . 255 . 0 . 0

DNS

168

.

95

.

1

.

1

8

.

8

.

8

.

8

- ① Configure you IP address in this field.
- ② Configure the DNS address in this field.

NOTE

The Subnet mask will configure automatically according to the Class rules set by the IP Address Range.

IP Address Range

Class A: 10.0.0.1 – 10.255.255.254

Class B: 172.16.0.1 – 172.31.255.254

Class C: 192.168.0.1 – 192.168.255.254

Subnet mask

Class A: 255.0.0.0

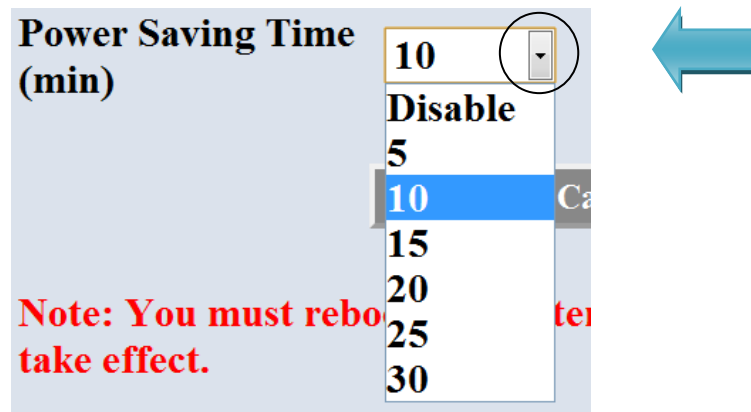
Class B: 255.255.0.0

Class C: 255.255.255.0

Power Saving Settings

In order to save battery life, the router will enter '*Sleep Mode*' if there is no data activity (upstream/downstream) over a given period of time.

Use can enable/disable this setting, or configure the time period when the router to enters '*Sleep Mode*'. (The default '*Sleep Mode*' setting is set to 10mins.)



- ① Select to disable Power Saving Time, or choose the time period in which the router enters 'Sleep Mode' between 5min-30mins (in 5min increments).

Advanced 3G Settings

The screenshot shows a web interface for a router. On the left is a dark blue sidebar with a menu. The top of the sidebar says 'Firmware v. 1.3.0.2'. The menu items are: Home, Quick Setting, Advanced Setting (highlighted with a black box), Wireless, 3G Modem, Firewall, SMS, Administrator, and Logout. Below the menu is a 'reboot' button. The main content area has a light blue background and is titled '3G Internet Setting'. It contains the following settings:

- 3G**
- Pin Code**: ☐ Enable Default: 0000
- Dial Code**:
- APN Service**:
- 3G Username**: Default: UN
- 3G Password**: Default: PW

At the bottom of the settings are 'Save' and 'Cancel' buttons. Below these is a red note: 'Note: You must reboot the router in order for changes to take effect.' At the very bottom of the page, it says 'Copyright © 2010 SMC Wireless Broadband Corp. All Rights Reserved'.

The page on the right will now give you options to configure the following settings for:

- ① Pin Code Protect
- ② Dial Code
- ③ APN Service
- ④ 3G Username & Password

①

Pin Code Protect

Click 'Enable' to enter the Pin Code for your 3G network. This is optional, and only required if your service provider asks you to do so. If your PIN code is "0000" enter 0000.

WARNING!

If after 3 attempts you fail to enter the correct Pin Code, your SIM card will be locked.
Please contact your ISP to obtain the correct Pin Code for your SIM card.

②

Dial Code

Enter the Dial Code for your 3G network in this field. This is necessary to connect to your 3G network and should be given by your Internet Service Provider (ISP).

③

Access Point Name (APN) Service

Enter the APN code assigned by your Internet Service Provider (ISP)

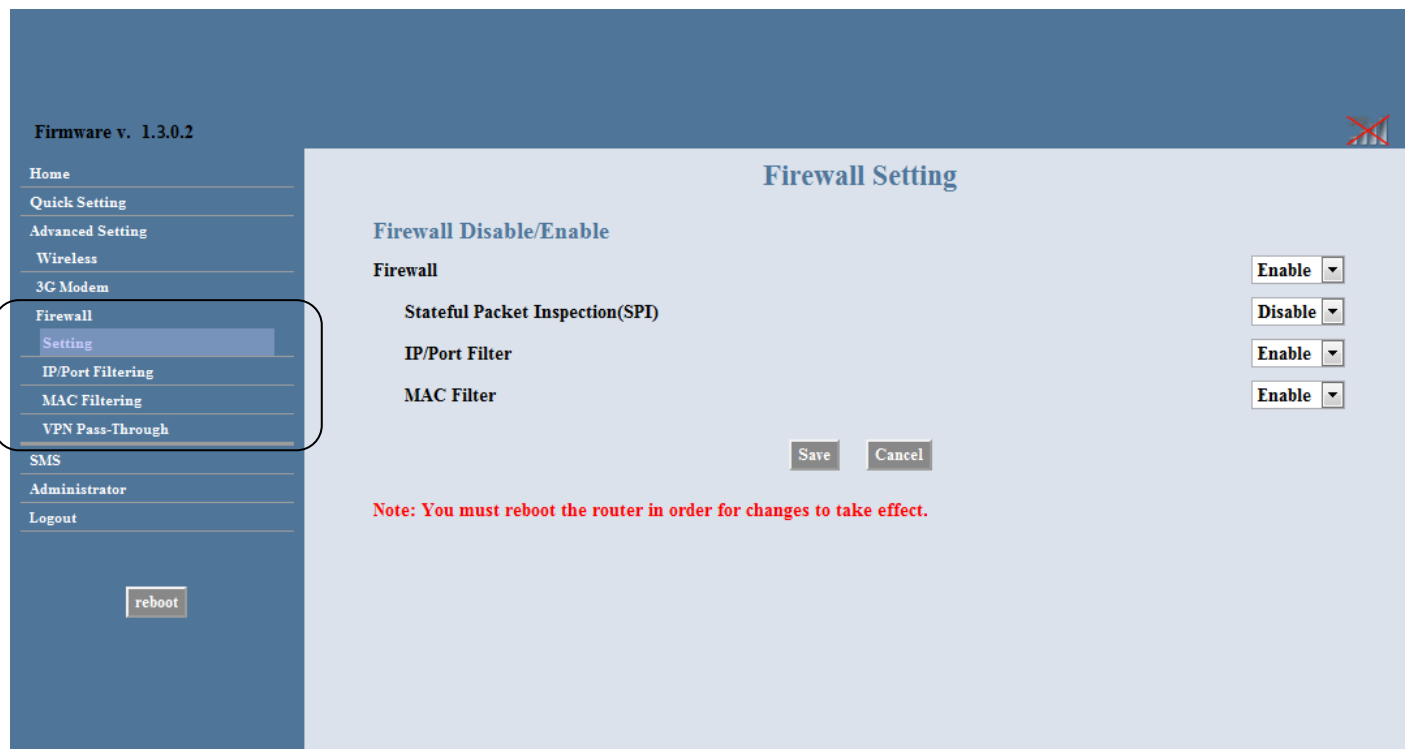
④

3G Username & 3G Password

Enter your 3G Username and password here.

Advanced Firewall Settings

Click on 'Advanced Settings' > 'Firewall'



The menu on the left will expand to give you more configuration options for the following advanced Firewall settings:

- ① Firewall Enable/Disable Setting
- ② IP/Port Filtering
- ③ MAC Filtering
- ④ VPN Pass-through

Firewall Setting

Click on 'Firewall' > 'Setting' under the 'Advanced Setting' drop-down menu.

The screenshot shows the 'Firewall Setting' page. On the left is a sidebar menu with 'Setting' highlighted under the 'Firewall' category. The main content area is titled 'Firewall Setting' and contains a section 'Firewall Disable/Enable'. This section lists four features: 'Firewall', 'Stateful Packet Inspection(SPI)', 'IP/Port Filter', and 'MAC Filter'. Each feature has a corresponding dropdown menu on the right, all currently set to 'Enable'. Below these are 'Save' and 'Cancel' buttons. A red note at the bottom states: 'Note: You must reboot the router in order for changes to take effect.' A 'reboot' button is also visible in the sidebar.

The page on the right will now give you options to enable/disable the Firewall features for:

- ① Firewall Enable/Disable Setting
- ② Stateful Packet Inspection (SPI)
- ③ IP/Port Filter
- ④ MAC Filter

This is a close-up of the 'Firewall' section from the screenshot. It shows the 'Firewall' label and four features: 'Stateful Packet Inspection(SPI)', 'IP/Port Filter', and 'MAC Filter'. Each feature has a dropdown menu on the right, all currently set to 'Enable'. Below these are 'Save' and 'Cancel' buttons.

Click on the drop-down menu box to enable/disable the Firewall features

IP/Port Filtering

Click on 'Firewall' > 'IP/Port Filtering' under the 'Advanced Settings' drop-down menu

The page on the right will now give you options to determine which Protocols and Port rules you wish to enforce on IP Addresses you add to the router's filter system. The configuration options allow you to:

- Enter the Local IP Address
- Set Protocol (TCP/UDP, or Both)
- Determine the Port Ranges

Once you have determined the filter settings for the Local IP Address, click 'Add' to add the address to the IP filter list.

If you wish to delete an IP Address from the Filter list, simply tick the box next to the address and click the 'Delete' button at the bottom of the page.

No.	Local IP Address	Protocol	Drop. Port Range	Del.
1	192.168.10.12 - 192.168.10.22	TCP	12111	<input type="checkbox"/>
2	192.168.10.22 - 192.168.10.23	TCP	8000	<input type="checkbox"/>
3	192.168.10.190	TCP	9000	<input type="checkbox"/>
4	192.168.10.123 - 192.168.10.222	TCP	800 - 1	<input type="checkbox"/>
5	192.168.10.1 - 192.168.10.2	TCP	222	<input type="checkbox"/>
6	192.168.10.23 - 192.168.10.44	TCP	11111	<input type="checkbox"/>
7	192.168.10.5	TCP	45 - 55	<input type="checkbox"/>
8	192.168.10.11 - 192.168.10.23	TCP	4354 - 34444	<input type="checkbox"/>

MAC Filtering

Click on 'Firewall' > 'MAC Filtering' under the 'Advanced' drop-down menu. The page on the right will open and allow you to add/delete MAC address settings.

The screenshot shows the router's web interface. On the left is a sidebar menu with the following items: Home, Quick Setting, Advanced Setting, Wireless, 3G Modem, Firewall, Setting, IP/Port Filtering, MAC Filtering (highlighted with a black box), VPN Pass-Through, SMS, Administrator, and Logout. Below the menu is a 'reboot' button. The main content area is titled 'MAC Filtering' and contains the following sections:

- Firmware v. 1.3.0.2** (top left corner)
- Filtering Settings**: Setup MAC filtering to increase security over your Wi-Fi network. Selected MAC addresses will be blocked from your Wi-Fi network.
- MAC Filter Settings**:
 - A text input field for 'MAC Address' with a note: 'Input format: XX:XX:XX:XX:XX'.
 - 'Add' and 'Cancel' buttons.
- Current IP/Port filtering rules in system**:

No.	MAC Address	Del
1	00:12:33:22:11:44	<input type="checkbox"/>
2	00:12:33:22:11:45	<input type="checkbox"/>

Below the table are 'Delete' and 'Cancel' buttons. A red arrow points from the 'Del' column header to the 'Delete' button.
- Note**: You must reboot the router in order for changes to take effect.

MAC Filtering allows you to restrict access to your MR868-3G Mobile Air to only those devices with a specific MAC address. The MAC address is a unique code specific to a particular piece of hardware or device.

- Enter the MAC address of the device you want to add. Then click 'Add'.

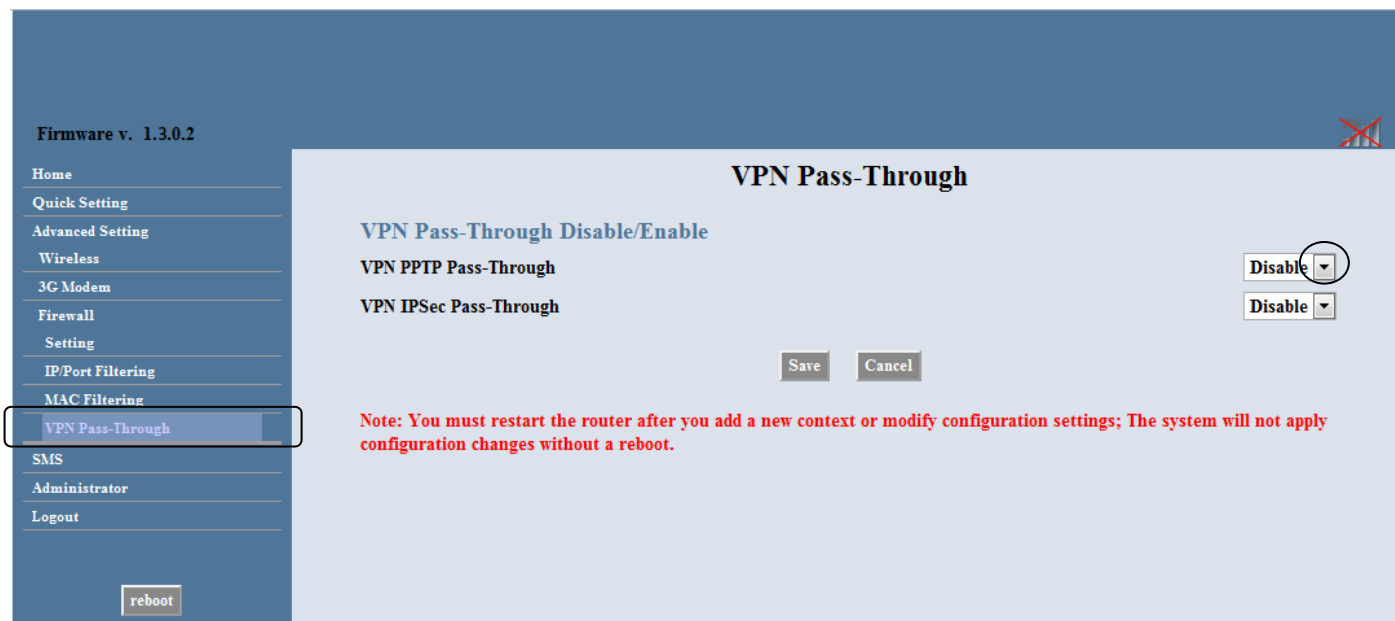
To delete a MAC address from the list, check the box next to the MAC address and then click on the 'Delete' button at the bottom of the page.

Tips

On a Windows machine, you can view the MAC address of any device currently connected to the MR-868 Mobile Air by running **ipconfig/all** from the command prompt window (cmd).

VPN Pass-through

Click on 'Firewall' > 'VPN Pass-through' under the 'Advanced' drop-down menu. The page on the right will open and allow you to configure VPN Pass-through settings.



Use the drop-down menu on the right to **enable/disable**:

- VPN PPTP Pass-Through
- VPN IPsec Pass-Through

Click on the 'Save' button to save the new settings

SMS

Use this setting to send text messages (Short Message Service)

Click on 'SMS' from the Main Menu

Firmware v. 1.3.0.2

Home
Quick Setting
Advanced Setting
SMS
Administrator
Logout

reboot

SMS

Send Message

Phone Num.

Fill out this field with your phone number, using half-width numerics, separated with "," e.g. 0988123456,0933000000.
Enter International cell phone numbers without '+' symbol, e.g. 886988123456,886933000000.
The maximum number of messages that can sent each time is limited to 20.

Msg. Content

Each message is limited to a maximum of 160 alphanumeric characters (70 characters for Unicode).

Send SMS New SMS

Store SMS 0 text messages on your SIM card.

Receive Message

No.	From	Message Content	Date	Del.
				<input type="checkbox"/>

Delete Cancel

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- ① Enter the phone number(s) you wish to send the message to in the 'Phone Num.' box.
For international cell phone numbers, type in the international dialling codes without the '+' symbol.

If you wish to send to multiple phone numbers, use the comma key ',' to separate each phone number.
e.g. 0988123456, 0988123457

- ② Type your message in the 'Msg. Content' box.

To start a new SMS message click on 'New SMS' button.

Notice The SMS feature may not be supported or available to some 3G dongles.

Administrator Options

Click on '**Administrator**' from the main Advanced menu on the left. The menu will expand to give you more configuration options:



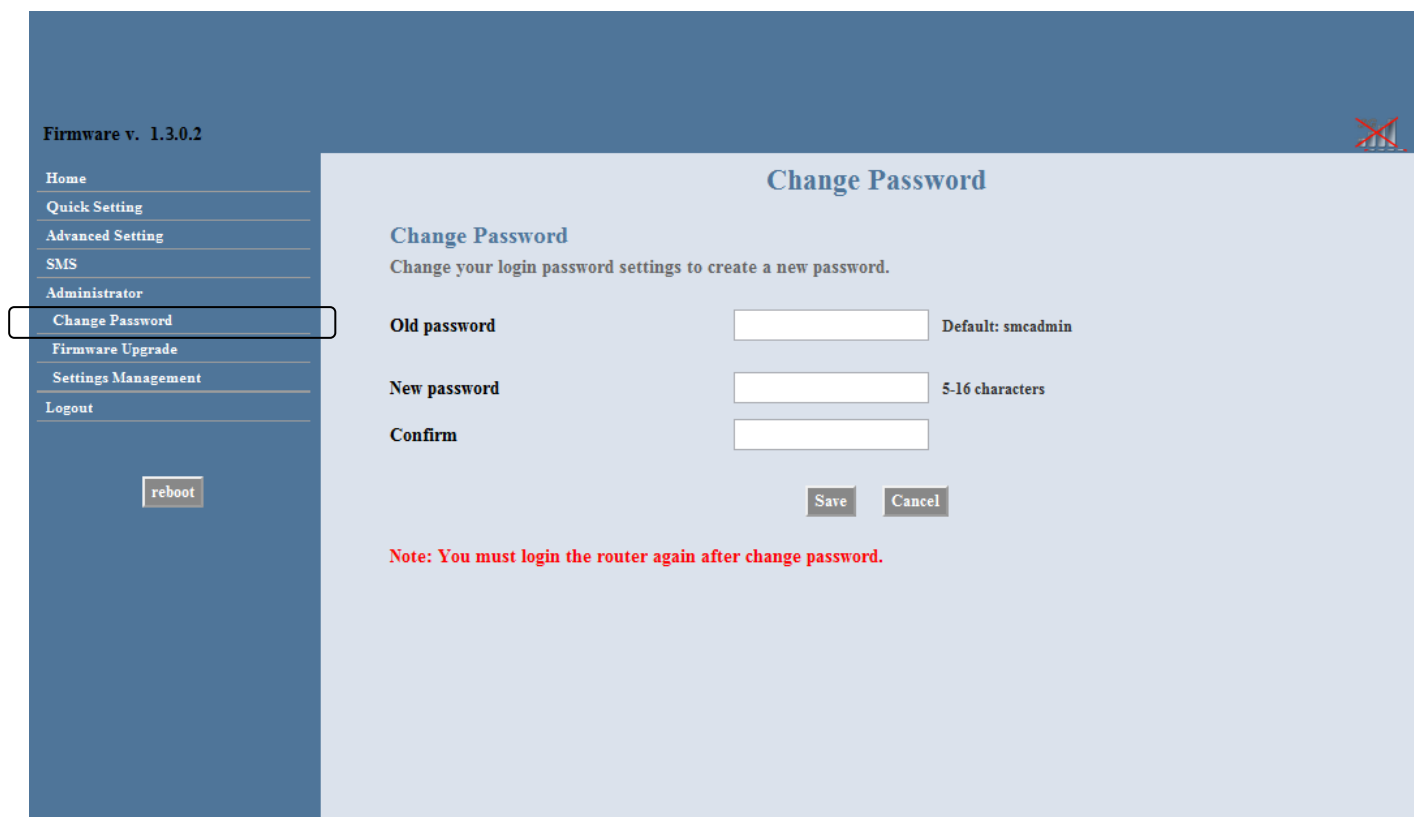
Under 'Administrator' options you will be able to:

- ① Change Password
- ② Apply Firmware Upgrade
- ③ Settings Management

Change Password

Use this setting to change the Administrator Password for the MR868-3G Mobile Air. This will become the new password you use every time you login to the router.

Click on 'Administrator' > 'Change Password'.



The screenshot shows the web interface of the MR868-3G Mobile Air router. On the left is a dark blue sidebar with a menu. The top of the sidebar says 'Firmware v. 1.3.0.2'. The menu items are: Home, Quick Setting, Advanced Setting, SMS, Administrator, Change Password (highlighted with a white box), Firmware Upgrade, Settings Management, and Logout. At the bottom of the sidebar is a 'reboot' button. The main content area has a light blue background. At the top right of this area is a red 'X' icon. The title 'Change Password' is centered at the top of the main area. Below the title is the instruction 'Change your login password settings to create a new password.' There are three input fields: 'Old password' (with a hint 'Default: smcadmin'), 'New password' (with a hint '5-16 characters'), and 'Confirm'. Below the fields are 'Save' and 'Cancel' buttons. At the bottom, a red note states: 'Note: You must login the router again after change password.'

Firmware v. 1.3.0.2

Home
Quick Setting
Advanced Setting
SMS
Administrator
Change Password
Firmware Upgrade
Settings Management
Logout

reboot

Change Password

Change your login password settings to create a new password.

Old password Default: smcadmin

New password 5-16 characters

Confirm

Save Cancel

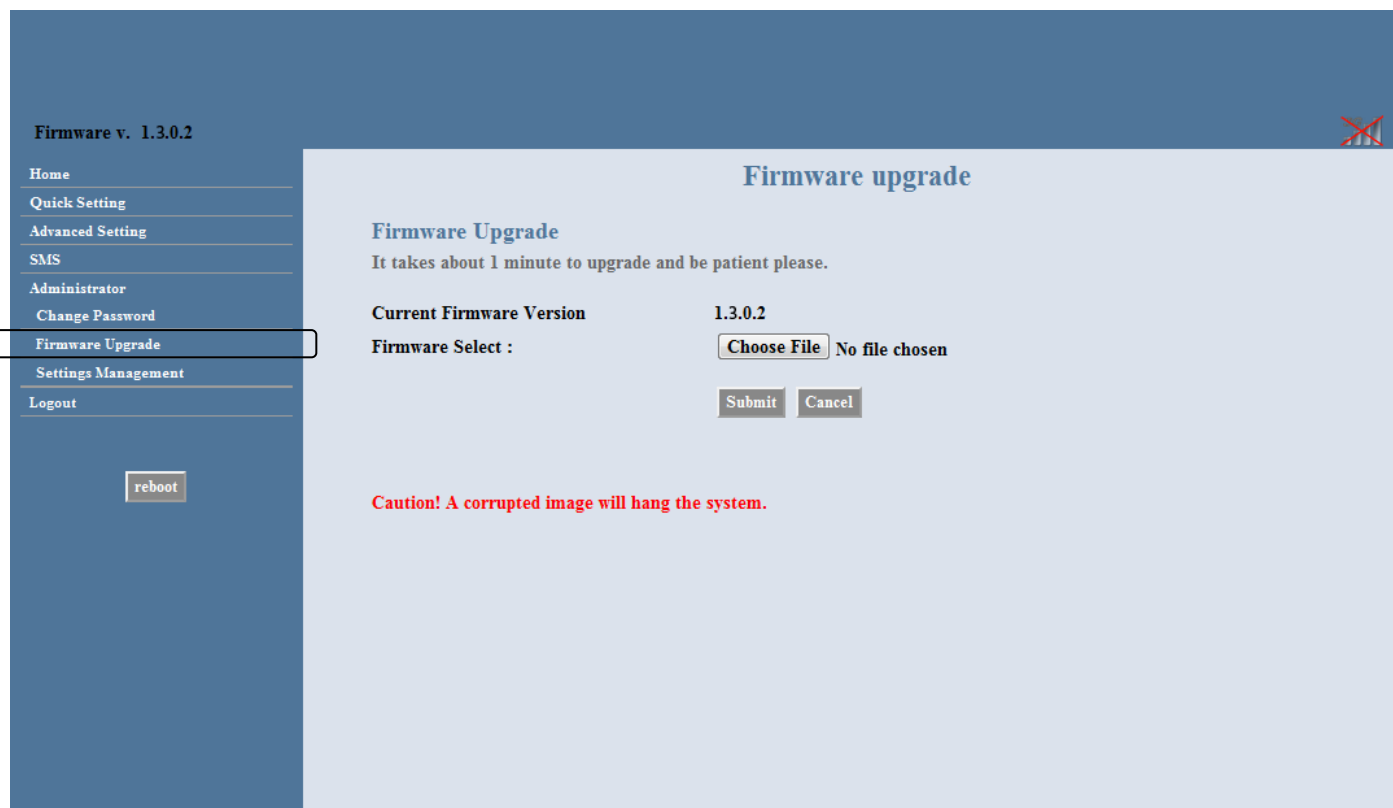
Note: You must login the router again after change password.

1. Enter your old password (default is '**admin**')
2. Enter your new password
3. Confirm your new password
4. Click the 'Save' button to save your changes.

Firmware Upgrade

Use this setting to change the upgrade the firmware version for the MR868-3G Mobile Air.

Click on 'Administrator'>'Firmware Upgrade'.



The screenshot shows the web interface of the MR868-3G Mobile Air. On the left is a dark blue sidebar with a menu. The top of the sidebar says 'Firmware v. 1.3.0.2'. The menu items are: Home, Quick Setting, Advanced Setting, SMS, Administrator, Change Password, Firmware Upgrade (which is highlighted with a white box), Settings Management, and Logout. Below the menu is a 'reboot' button. The main content area has a light blue background. At the top right of this area is a red 'X' icon. The title 'Firmware upgrade' is centered at the top. Below it, the text 'Firmware Upgrade' is followed by 'It takes about 1 minute to upgrade and be patient please.' The 'Current Firmware Version' is listed as '1.3.0.2'. Under 'Firmware Select:', there is a 'Choose File' button and the text 'No file chosen'. Below these are 'Submit' and 'Cancel' buttons. At the bottom, a red warning message reads: 'Caution! A corrupted image will hang the system.'

Click on 'Choose File' to browse for the firmware file image on your computer then click on the 'Submit' button to apply the firmware upgrade.

Warning

Do not apply the firmware upgrade when the battery is low!

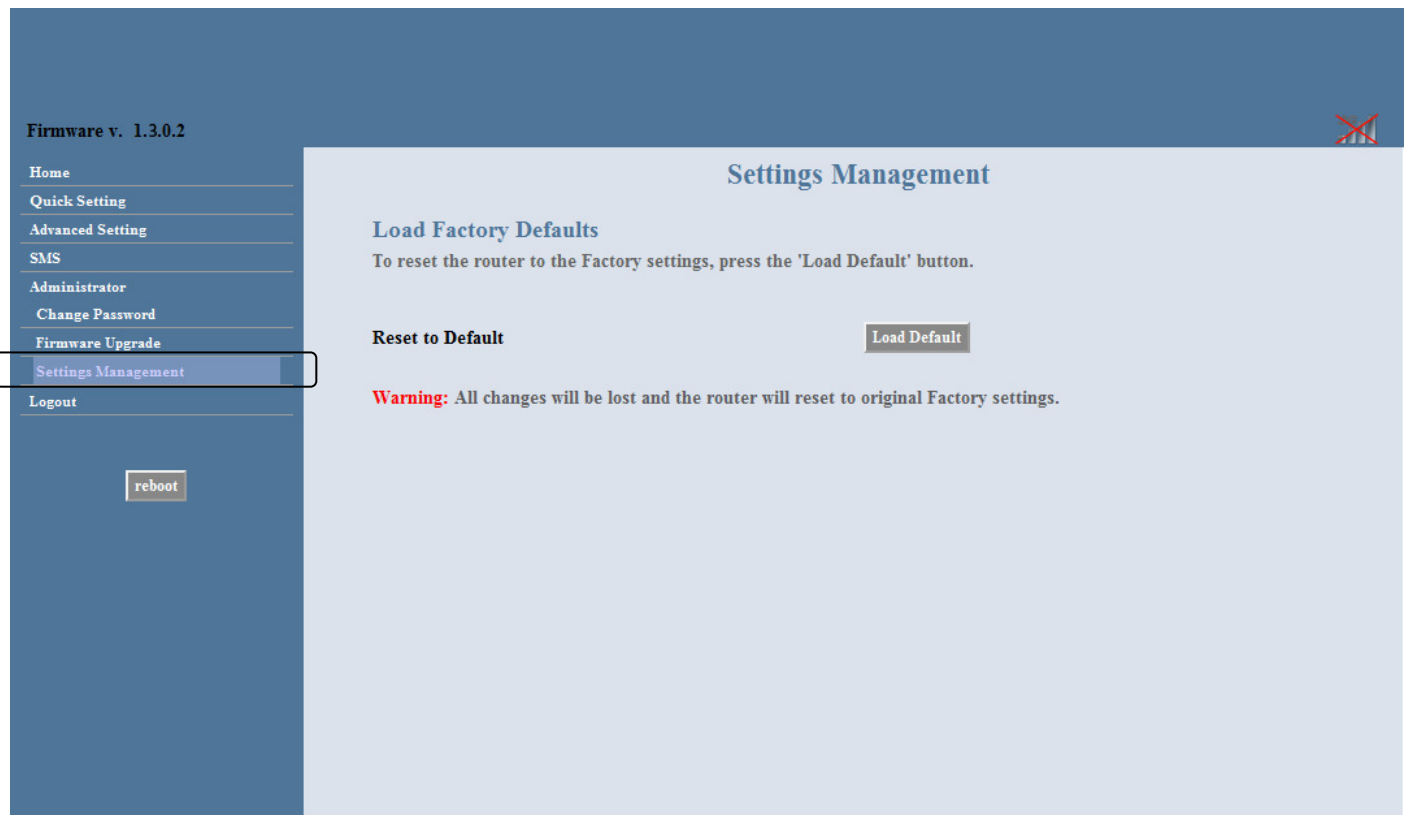
The router may shutdown during the update process and cause a corrupt system.

Make sure to fully charge the router or connect to the power adapter to ensure a successful firmware upgrade.

Settings Management

Use this setting to reset the router to its factory/default settings.

Click on 'Administrator' > 'Settings Management'.



To reset back to default settings, click on the 'Load Default' button.

All saved settings will be lost and the router will reset back to its original factory settings

Warning!

Do not turn off the router while it resets.