

# **LTE MIFI ( G series ) User Manual**

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**Note:**

Operating temperature: -30°C—60°C.

## **1. About this Manual**

The content of this User Manual has been made as accurate as possible. However, due to continual product improvements, specifications and other information are subject to change without notice.

## **2. Product Overview**

This MIFI supports LTE Band 3/7/20/31 (Subject to the configuration of LTE module) and it supports popular operating systems like Windows, Linux and Mac.

Please refer to the Quick Start Guide that is part of the MIFI supply. Once you have identified the place for MIFI, insert USIM card supplied by your service provider at the appropriate place. Press power key for 3 seconds and after few minutes the MIFI should attach itself to the LTE network. It is as simple as that. It is advised to read this manual at leisure to make best use of the MIFI.

## **3. Configuring the MIFI**

The basic settings in WebGUI consist of seven main parts named Dashboard, 4G, Status, LAN, WiFi, Firewall and System. You can login to WebGUI as follows, and configure the settings according to your requirements.

Connect the PC to MIFI with USB cable, Power on the device and waiting for about one minute until the device finished initializing. Please ensure that USIM card has been inserted into USIM slot in MIFI.

You can also connect the PC to MIFI by WiFi, choose the correct WiFi SSID and input the accurate password as the label shows. The default WiFi SSID is ice.net-XXXXXX, XXXXXX denotes the last six

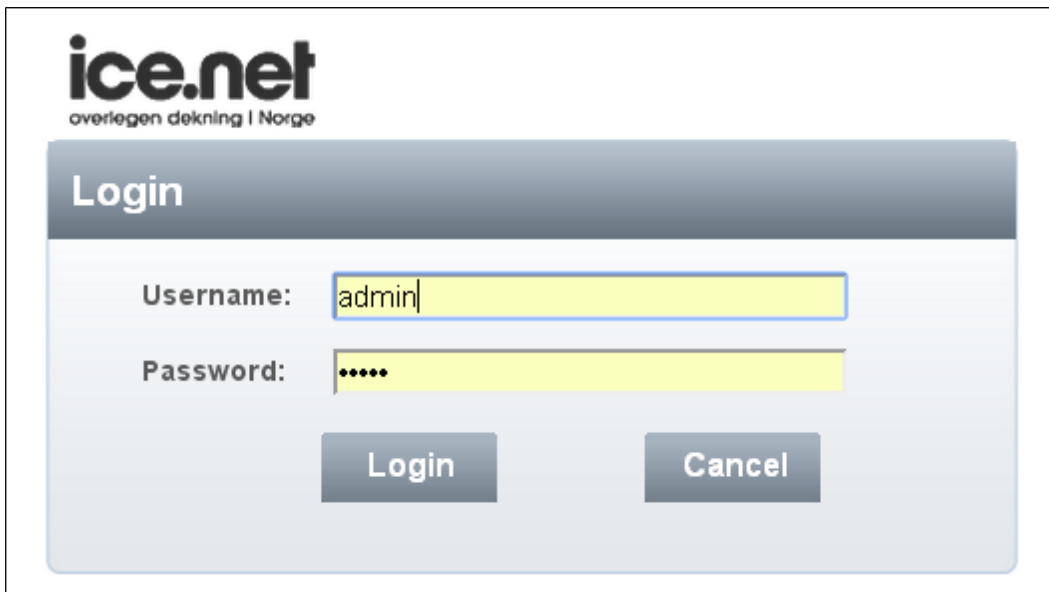
digits of the MIFI's MAC address.

### 3.1 Login

Open your Web browser and enter 192.168.0.1 in the address bar;  
Login window will popup;

When prompted for User name and password, enter the following  
username and password.

**Username/Password: admin/admin**





### 3.2 Dashboard

After successful login, the following screen will appear and you will see seven menus on the top bar of the WebGUI.

The bars in the middle indicate the received signal level, data connection status, USIM status, WiFi icon and battery icon shown as below picture:



	LTE signal level
	Data connection Icon, when MIFI connect to network, the icon is on, otherwise, it is grey








 USIM card status. If MIFI work without USIM card. The USIM card icon change to	
	WiFi function is enabled
	Battery status Battery is charging  single battery or battery Full : 
	Reboot key. It is used to reboot the device
 Log out key. It is used to log out Web page	

Figure 3-2-1 Icon

From dashboard page, you can also know 4G status, Wi-Fi status, WAN Info, LAN Info, Data Traffic and Device&SIM Info. You can see the dashboard page as figure 3-2-2.

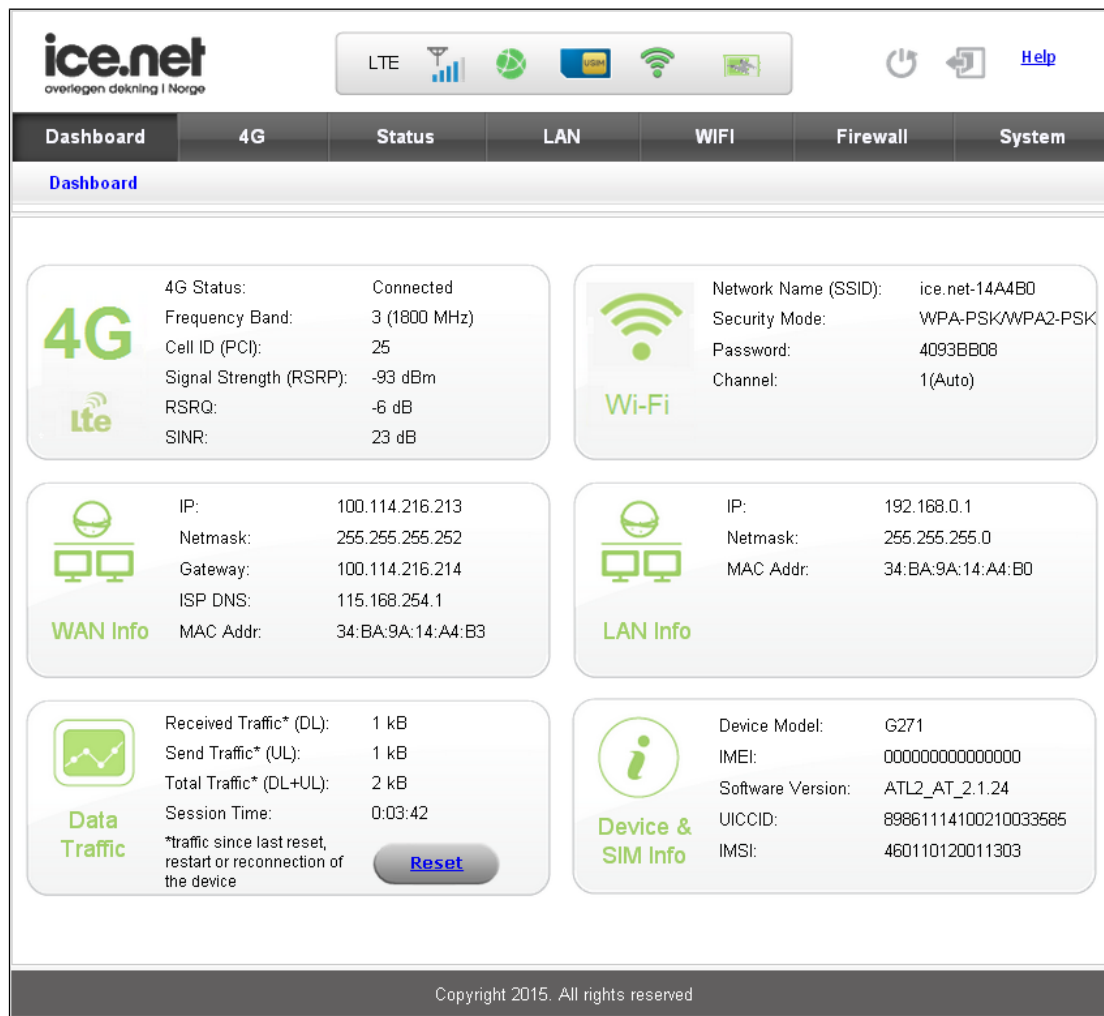


Figure 3-2-2 Dashboard Page

### 3.3 4G

#### 3.3.1 APN Settings

The default APN mode is automatic and APN is NULL, if you want to configure the LTE APN, you should choose the manual mode, and then you can configure the APN settings (Figure 3-3-1-2).

The screenshot shows the 'APN Settings' screen. At the top, there is a header 'APN Settings'. Below it, the 'APN' field is set to 'Auto' in a dropdown menu. At the bottom of the screen, there are two buttons: 'Apply' and 'Cancel'.

Figure 3-3-1-1 Auto APN

The screenshot shows the 'APN Settings' screen with manual configuration options. The 'APN' field is set to 'Manual'. Below it, the 'APN Type' is set to 'IPV4'. The 'APN Name' field contains 'cmcc'. The 'Authentication' field is set to 'CHAP'. The 'User Name' field contains 'ATEL'. The 'Password' field is empty. At the bottom of the screen, there are two buttons: 'Apply' and 'Cancel'.

Figure 3-3-1-2 Manual APN

### 3.3.2 PIN Management

From this page, you can see the USIM card status and PIN status.

The default PIN status is disabled; you can input the correct PIN to enable the PIN function. The maximum PIN attempts are 3; otherwise you must enter PUK to reset the PIN code. The USIM will be invalid after the unsuccessful attempts for 10 times.

- **PIN Management:** Enter the correct PIN to enable or disable the PIN function, PIN code should be 4 to 8 digits;

PIN Management	
Remaining PIN Attempts	3
PIN Status	PIN Enabled
PIN Lock	<input type="text"/> <input checked="" type="radio"/> Enable <input type="radio"/> Disable
<input type="button" value="Apply"/>	

Figure 3-3-2-1 Enable PIN

- **PIN change:** You can input the current PIN code 1 time and the new PIN code for 2 times to change the PIN code. PIN code should be 4 to 8 digits.

PIN Change	
Current PIN	<input type="text"/>
New PIN	<input type="text"/>
Confirm New PIN	<input type="text"/>
<input type="button" value="Apply"/>	

Figure 3-3-2-2 PIN Change Page

- **PUK Management:** Input the correct PUK code and the new PIN code for 2 times to reset the PIN code. The PIN code should be 4 to 8 digits. The maximum PUK attempts are 10.

PUK Management	
USIM Card Status	PUK is Locked
Remaining PUK attempts	10
Current PUK	<input type="text"/>
New PIN	<input type="text"/>
Confirm New PIN	<input type="text"/>
<input type="button" value="Apply"/>	

Figure 3-3-2-3 PUK Managet Page



### 3.4 Status

On this page, you can see WAN Status, LAN Status, 4G Status and Software Status.

<a href="#">WAN Status</a>   <a href="#">LAN Status</a>   <a href="#">4G Status</a>   <a href="#">Software Status</a>	
<b>WAN Status</b>	
WAN IP Address	100.124.80.97
WAN Subnet Mask	255.255.255.252
WAN Default Gateway	100.124.80.98
WAN Primary DNS	115.168.254.1
WAN Secondary DNS	115.168.254.2

Figure 3-4-1 Status

#### 3.4.1 WAN Status

From the WAN Status, WAN IP Address, WAN Primary DNS and WAN Secondary DNS information can be displayed

<b>WAN Status</b>	
WAN IP Address	100.124.80.97
WAN Subnet Mask	255.255.255.252
WAN Default Gateway	100.124.80.98
WAN Primary DNS	115.168.254.1
WAN Secondary DNS	115.168.254.2

Figure 3-4-1-1 WAN Status

#### 3.4.2 LAN Status

From this page, you can see the LAN Status such as SSID, Channel, Security, Key, LAN IP and DHCP Server.

<b>LAN Status</b>	
<b>LAN IP</b>	192.168.0.1
<b>Local Netmask</b>	255.255.255.0
<b>DHCP Server</b>	192.168.0.10-192.168.0.100
<b>LAN MAC Address</b>	34:BA:9A:14:A4:B0
<b>WLAN MAC Address</b>	34:BA:9A:14:A4:B0
<b>Channel</b>	1(Auto)
<b>SSID</b>	ice.net-14A4B0
<b>Security</b>	WPA-PSK/WPA2-PSK
<b>Key</b>	4093BB08

Figure 3-4-2-1 WiFi LAN Status

### 3.4.3 4G Status

Clicking on the “4G Status”, you can see the LTE information such as Connection Status, USIM Status, IMEI, IMSI, RSRP, RSRQ, RSSI, SINR, Localization and Frequency.

<b>4G Status</b>	
Connection Mode	Router
Connection Status	Connected
USIM Status	USIM Ready
Signal Strength (RSRP)	-97 dBm
Signal Strength (RSRQ)	-9 dB
IMEI	0000000000000000
UICCID	89861114100210033585
IMSI	460110120011303
SINR	20 dB
RSSI	-81 dBm
Physical Cell ID	25
Global Cell ID	05B30F35
Transmission Mode	Open loop MIMO
PLMN	CHN-CT

Figure 3-4-3-1 LTE Status

### 3.4.4 Software Status

Software version and the DTB version can be displayed.

<b>Software Status</b>	
System Software Version	ATL2_AT_2.1.24
DTB Version	G271_P2_2.21.4

Figure 3-4-4-1 Software

## 3.5 LAN

The setting menu consists of two main menus named LAN Settings and Device List.

The screenshot shows the 'LAN Settings' page in a web interface. At the top, there are navigation tabs: Dashboard, 4G, Status, LAN (selected), WIFI, Firewall, and System. Below these are sub-tabs: LAN Settings and Device List. The main content area is titled 'LAN Settings' and contains the following fields:

IP Address	192.168.0.1	
Subnet Mask	255.255.255.0	
DHCP	Enabled ▾	
Start IP Address	192.168.0.10	
End IP Address	192.168.0.100	
Lease Time	10080	
Static IP 1	MAC: <input type="text"/>	IP: <input type="text"/>
Static IP 2	MAC: <input type="text"/>	IP: <input type="text"/>
Static IP 3	MAC: <input type="text"/>	IP: <input type="text"/>
Static IP 4	MAC: <input type="text"/>	IP: <input type="text"/>
Static IP 5	MAC: <input type="text"/>	IP: <input type="text"/>

At the bottom of the form are two buttons: 'Apply' and 'Cancel'.

On the right side, there is a 'Help' section with a question mark icon. It contains the following text:

**Help**  
On this page you can change your LAN interface settings.

**IP Address:** The routers private IP address (standard gateway).

**DHCP:** Enable or Disable DHCP.

**Lease time:** Time before the router releases an IP address.

**Start & End IP-address:** IP address range assignable to LAN clients.

**Static IP:** Used for assigning a static IP address to clients, for example printers or web servers.

Figure 3-5-1 Settings

### 3.5.1 LAN Settings

Clicking on the “LAN Settings” tab will take you to the “LAN Settings” header page. On this page, all settings for the internal LAN setup of the MIFI router can be viewed and changed.

LAN Settings	
IP Address	<input type="text" value="192.168.0.1"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
DHCP	<input type="text" value="Enabled"/>
Start IP Address	<input type="text" value="192.168.0.10"/>
End IP Address	<input type="text" value="192.168.0.100"/>
Lease Time	<input type="text" value="10080"/>
Static IP 1	MAC: <input type="text"/> IP: <input type="text"/>
Static IP 2	MAC: <input type="text"/> IP: <input type="text"/>
Static IP 3	MAC: <input type="text"/> IP: <input type="text"/>
Static IP 4	MAC: <input type="text"/> IP: <input type="text"/>
Static IP 5	MAC: <input type="text"/> IP: <input type="text"/>

Figure 3-5-1-1 LAN Settings

- **IP Address** - Enter the IP address of your router (factory default: 192.168.0.1).
- **Subnet Mask** - An address code that determines the size of the network. Normally use 255.255.255.0 as the subnet mask.
- **DHCP** - Enable or Disable the DHCP server. If you disable the Server, Client cannot get valid IP address from MIFI automatically. But you can configure the address of your PC manually to connect MIFI
- **Start IP Address** - Specify an IP address for the DHCP server to start with when assigning IP address. The default start address is 192.168.0.10.
- **End IP Address** - Specify an IP address for the DHCP Server to end with when assigning IP address. The default end address is 192.168.0.100.
- **Lease Time** - The Lease Time is the amount of time a network user will be allowed connection to the router with their current dynamic IP address. Enter the amount of time in minutes and the user will be "leased" this dynamic IP address. After the time is up, the user will be assigned a new dynamic IP address automatically.
- **Static IP** - IP/MAC binding function, the system will assign a fixed IP address to the MAC according to the rules.

□ **Note:**

1. If you change the IP Address of LAN, you must use the new IP address to login to the MIFI router.
2. If the new LAN IP address you set is not in the same subnet, the IP address pool of the DHCP server will change at the same time, while the Virtual Server and DMZ Host will not take effect until they are re-configured.

### 3.5.2 Device List

All clients connect to MIFI can be displayed. You can see the users' information, include hostname, MAC address, IP address and connection type.

Device List			
Hostname	IP Address	MAC Address	Connection Type
lwangde-iPhone	192.168.0.11	5c:f5:da:ed:98:a7	WIFI
lwang01	192.168.0.10	34:ba:9a:14:a4:b1	USB

Figure 3-5-2-1 Device List

## 3.6 WiFi

Clicking on “WIFI” will take you to the following header and on this page you can configure the WiFi settings and WiFi security.

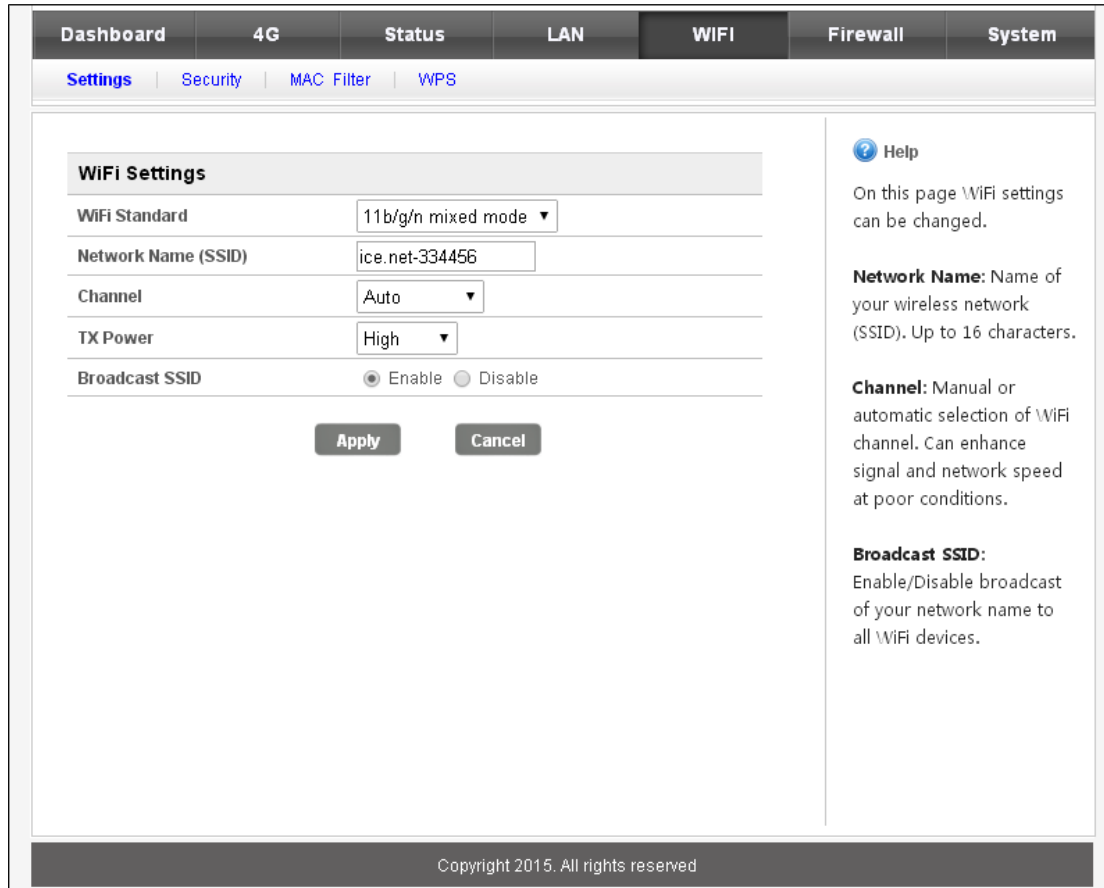


Figure 3-6-1 WiFi

### 3.6.1 WiFi Settings

You can set the WiFi status, configure the WiFi standard, network name and select the WiFi channel.

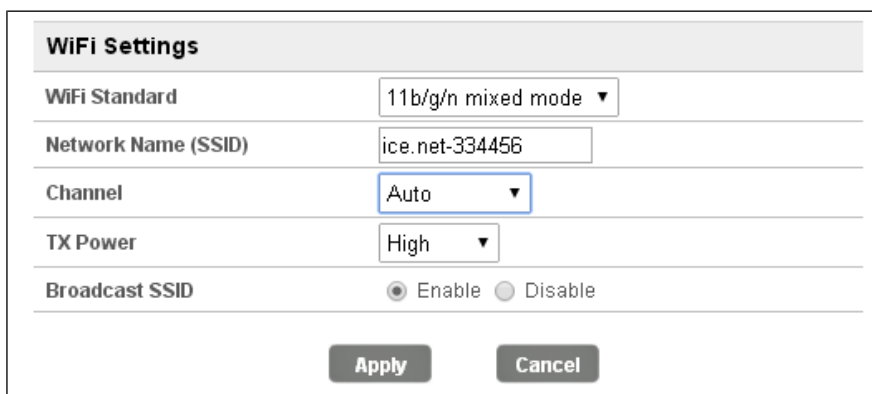


Figure 3-6-1-1 WiFi Settings

➤ **WiFi Standard:**

The router can be operated in five different wireless modes: "11b/g mixed mode", "11b only", "11g only", "11b/g/n mixed mode", "11g/n mixed mode".

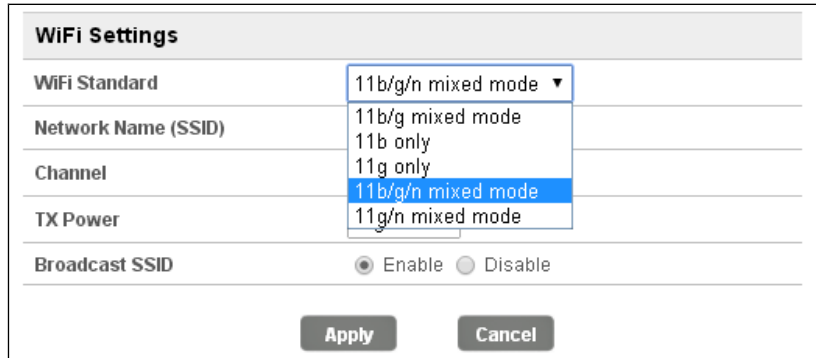


Figure 3-6-1-2 WiFi standard

➤ **Network Name(SSID)**

To identify your wireless network, a name called the SSID (Service Set Identifier) is used. You can set it to anything you like and you should make sure that your SSID is unique if there are other wireless networks operating in your area.

➤ **Channel**

This field determines which operating frequency will be used for WiFi. It is not necessary to change the wireless channel unless you noticed the interference problems with other access points nearby.

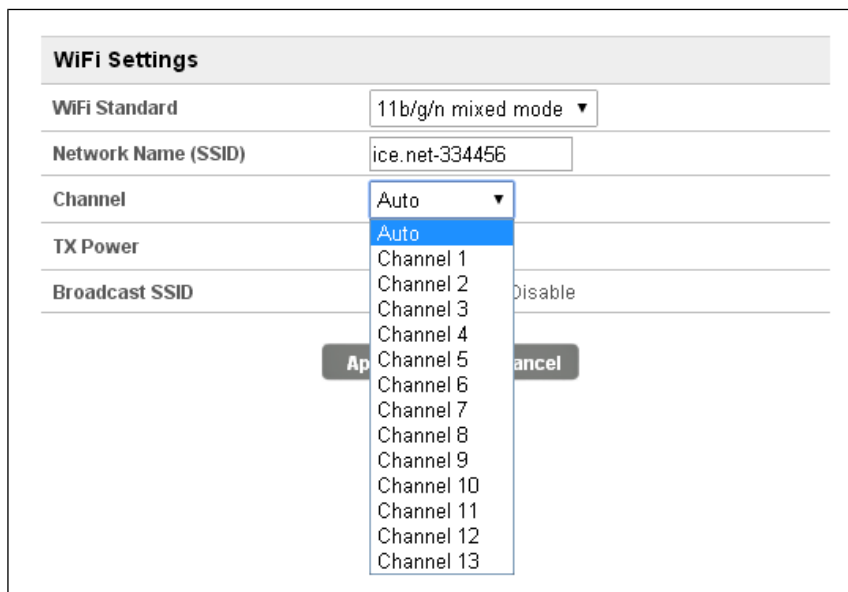




Figure 3-6-1-3 Frequency (Channel)

- **TX Power:** there are three modes: high, Medium and low. TX power affects wireless client connection coverage. Default value is high.
- **Broadcast SSID:** Enabled(default)/Disabled

When wireless clients survey the local area for wireless networks to associate with, they will detect the SSID broadcast of the router. If you disabled this feature, the WiFi of the router is invisible.

### 3.6.2 Security

Setting the wireless security and encryption to prevent the router from unauthorized access and monitoring. Default security mode is WPA-PSK/WPA2-PSK and the default password is unique (Figure 3-6-2-1), you can modify the security mode and password you like from this page.

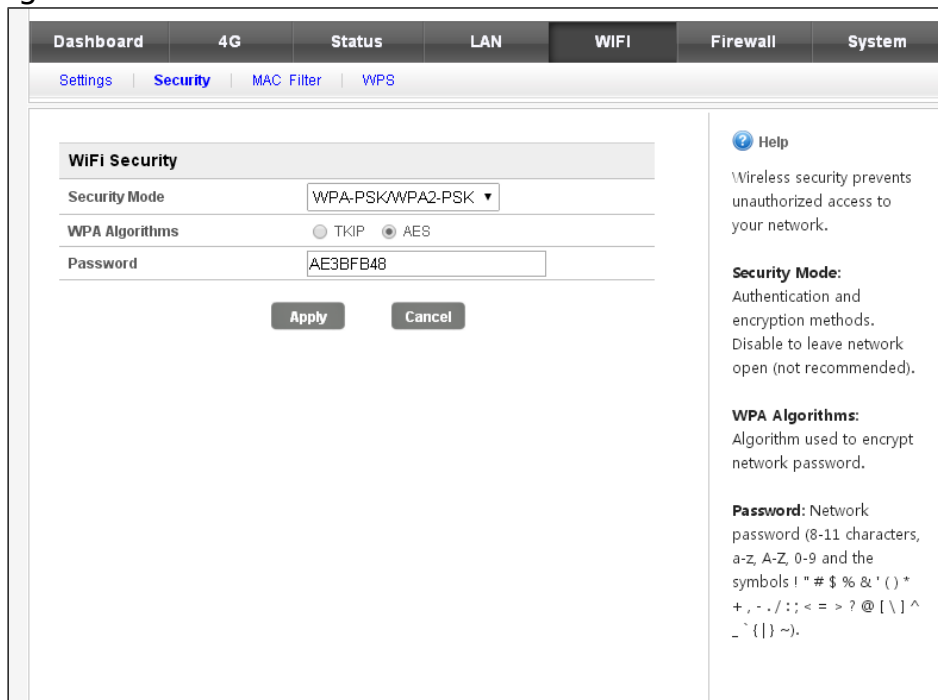


Figure 3-6-2-1 WIFI Security

- **Security Mode:** Disabled, WPA-PSK, WPA2-PSK, WPA-PSK/WPA2-PSK
- **WPA Algorithms:** TKIP, AES
- **Password:** 8 ~ 11 characters

### 3.6.3 MAC Filter

This function is a powerful security feature that allows you to specify which wireless client users are not allowed to surf the Internet.

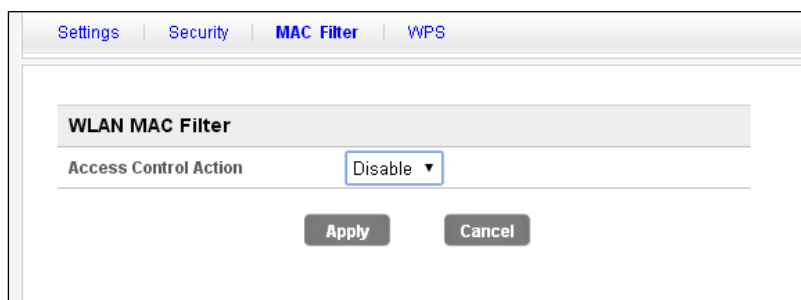


Figure 3-6-3-1 MAC Filter

The default MAC filtering setting is disabled, so you should enable it before you begin to configure the filter. Then click the “Add New” button, you can configure the rules you like (Figure 3-6-3-2).

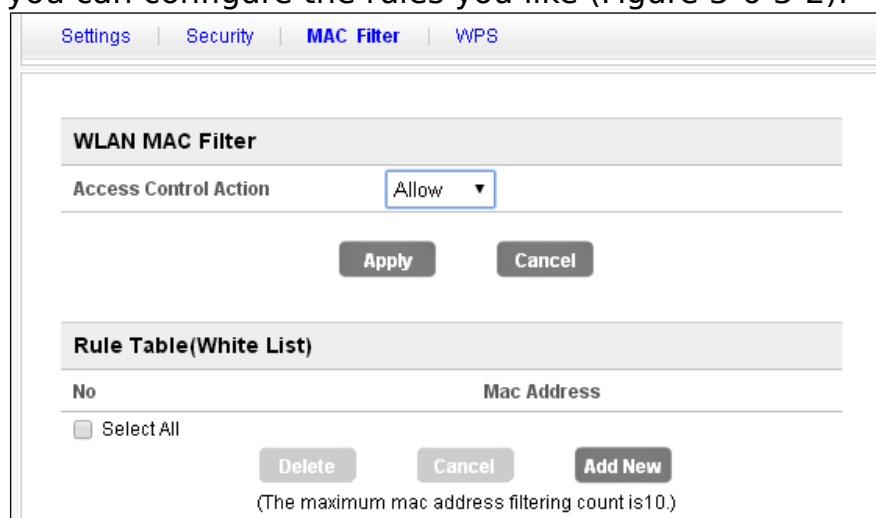


Figure 3-6-3-2 MAC Filter allow

**Default Policy:** The packets that don't match with any rules would be “Allow/Deny”. If you choose the “Allow” button, the MAC address that you add can connect to MIFI with WiFi; if you choose the “Deny” button, the wireless clients that you add cannot connect to MIFI.

The new rules will be shown on the rule table, here you can delete the rules that you have selected and add new rules sequentially. The maximum rule count is 10.  
(Figure 3-6-3-4).

Figure 3-6-3-3 Add Rule

No	Mac Address
1 <input type="checkbox"/>	20:A2:E4:2D:EA:BC

Figure 3-6-3-4 Rule Table

### 3.6.4 WPS

You can setup security easily by choosing PBC method to do WiFi Protected Setup.This feature can make your wireless client within a few minutes automatically synchronized with the AP devices and establish the connection via WiFi.

Figure 3-6-4-1 WPS

#### ➤ PBC Mode

- (1) Press the WPS button of the MIFI directly;
- (2) Then MIFI and wireless client will automatically complete the

interaction and connect via WiFi if these two devices can match with each other.

### 3.7 Firewall

The Firewall menu consists of two main menus named Port Forwarding and DMZ.

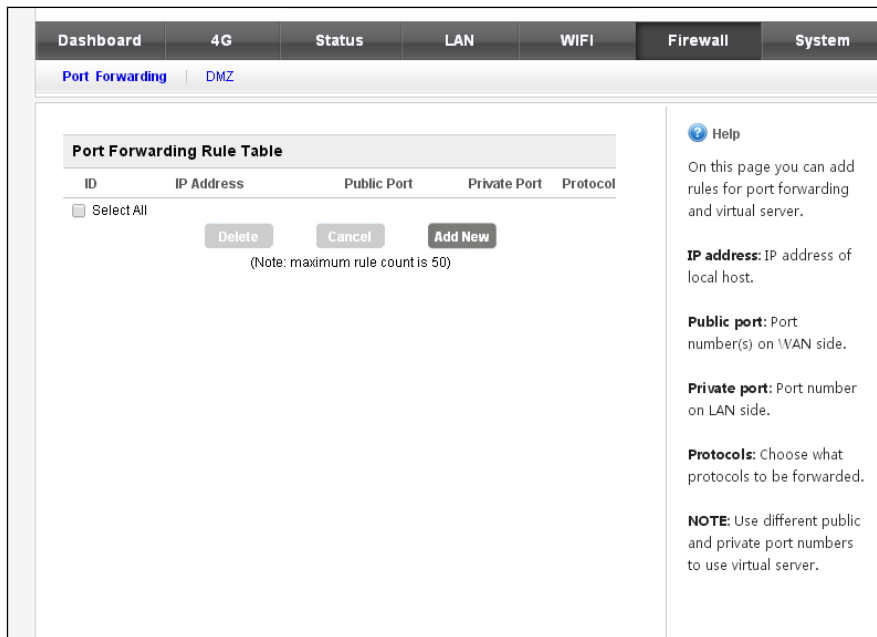


Figure 3-7-1 Firewall

#### 3.7.1 Port Forwarding

Clicking on the header of the “Port Forwarding” button will take you to the “Port Forwarding” header page (Figure 3-7-1-1). Clicking on the “Add New” button, you can configure IP address, Public Port, Private Port, Protocol to achieve the port forwarding purpose.

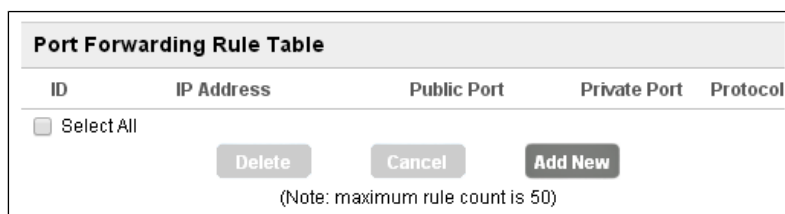


Figure 3-7-1-1 Port Forwarding page

Port Forwarding Settings	
IP Address	192.168.0.2
Public Port	5100 - 5200
Private Port	21
Protocol	TCP&UDP ▼
<input type="button" value="Apply"/> <input type="button" value="Cancel"/> <input type="button" value="Back"/>	

Figure 3-7-1-2 Port Forwarding Setting

- **IP Address-** The IP address of the PC running the service application;
- **Public Port-** The port of server-side;
- **Private Port-** The port of client-side, it can be same with the public port;
- **Protocol-** UDP, TCP, TCP&UDP

The new rules will be shown on the rule table, you can delete the items that you have selected or add new rules by clicking the “Add New” button here. The maximum rule count is 50.

Port Forwarding Rule Table				
ID	IP Address	Public Port	Private Port	Protocol
1 <input type="checkbox"/>	192.168.0.2	5100 - 5200	21	TCP&UDP
<input type="checkbox"/> Select All				
<input type="button" value="Delete"/> <input type="button" value="Cancel"/> <input type="button" value="Add New"/>				

(Note: maximum rule count is 50)

Figure 3-7-1-3 Rule Table

### 3.7.2 DMZ

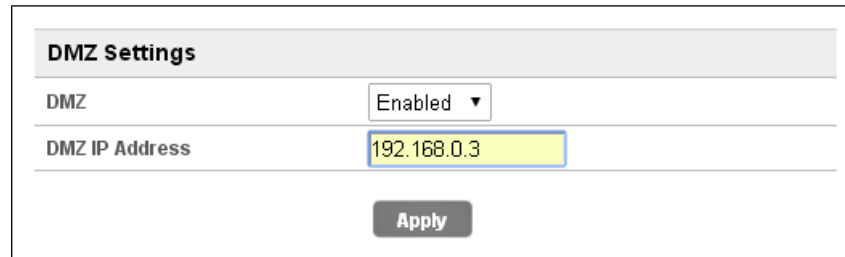
From this page, you can configure a De-militarized Zone (DMZ) to separate internal network and Internet.

- **DMZ IP Address-** The IP address of your PC. (such as 192.168.0.3)



The screenshot shows the 'DMZ Settings' section of a web interface. At the top, there is a header 'DMZ Settings'. Below it, the 'DMZ' status is set to 'Disabled' in a dropdown menu. The 'DMZ IP Address' field is empty. At the bottom, there is an 'Apply' button.

Figure 3-7-2-1 DMZ page

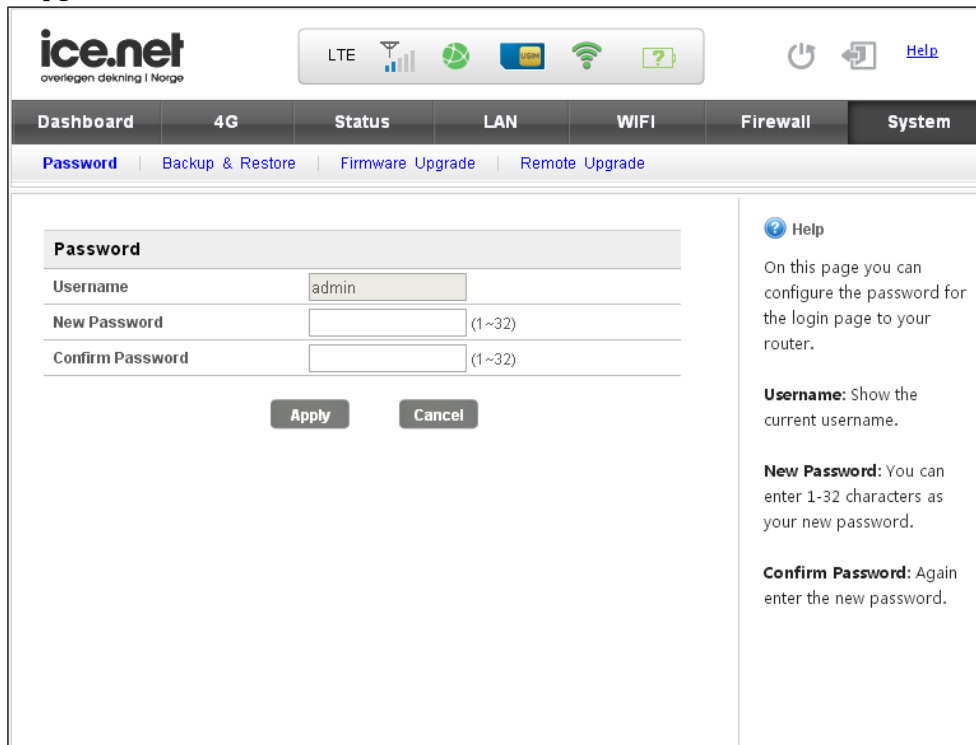


The screenshot shows the 'DMZ Settings' section with 'DMZ' set to 'Enabled'. The 'DMZ IP Address' field contains the value '192.168.0.3'. An 'Apply' button is located at the bottom.

Figure 3-7-2-2 DMZ Setting

### 3.8 System

On this page you can set System Menu: Password, backup&restore, firmware software and remote upgrade



The screenshot displays the 'System' menu in the 'ice.net' web interface. The top navigation bar includes 'Dashboard', '4G', 'Status', 'LAN', 'WIFI', 'Firewall', and 'System'. Under the 'System' menu, there are sub-options: 'Password', 'Backup & Restore', 'Firmware Upgrade', and 'Remote Upgrade'. The 'Password' sub-menu is active, showing fields for 'Username' (pre-filled with 'admin'), 'New Password' (with a '(1~32)' character limit), and 'Confirm Password' (with a '(1~32)' character limit). 'Apply' and 'Cancel' buttons are at the bottom. A 'Help' section on the right provides instructions: 'On this page you can configure the password for the login page to your router.', 'Username: Show the current username.', 'New Password: You can enter 1-32 characters as your new password.', and 'Confirm Password: Again enter the new password.'

### 3.8.1 Password

The default password is admin, you can enter 1~32 characters for 2 times as your new password. Then you would logout automatically and you should login to the system by the new password.

The screenshot shows the 'System' tab in the router's web interface, specifically the 'Password' sub-tab. The page has a navigation bar with 'Dashboard', '4G', 'Status', 'LAN', 'WIFI', 'Firewall', and 'System'. Below the navigation bar, there are links for 'Password', 'Backup & Restore', 'Firmware Upgrade', and 'Remote Upgrade'. The main content area is titled 'Password' and contains the following fields and buttons:

- Username:** A text input field containing the value 'admin'.
- New Password:** A text input field with a '(1~32)' character limit indicator.
- Confirm Password:** A text input field with a '(1~32)' character limit indicator.
- Buttons:** 'Apply' and 'Cancel' buttons are located below the password fields.

On the right side of the page, there is a 'Help' section with a question mark icon. The help text reads: 'On this page you can configure the password for the login page to your router.' Below this, there are three explanatory notes:

- Username:** Show the current username.
- New Password:** You can enter 1-32 characters as your new password.
- Confirm Password:** Again enter the new password.

Figure 3-8-1-1 Password

### 3.8.2 Backup & Restore

Clicking the “Export” button, the current settings will be saved as a data file to the local PC. You can import the device configuration from the files that you saved. You can restore and reboot the device.

The screenshot shows the 'Backup & Restore Settings' page in the router's web interface. The page is titled 'Backup & Restore Settings' and contains the following sections and buttons:

- Export Settings:** A section with an 'Export' button.
- Import Settings:** A section with a 'Choose File' button, the text 'No file chosen', and an 'Import' button.
- Restore Factory Settings:** A section with a 'Restore' button.
- Reboot:** A section with a 'Reboot' button.

Figure 3-8-2-1 Backup & Restore

### 3.8.3 Firmware Upgrade

On this page, you can upgrade the current Router version from the local PC. Please wait until the whole upgrade complete, and then the device will reboot automatically

Firmware Upgrade	
Location	Choose File No file chosen
Apply	

Figure 3-8-3-1 Firmware Upgrade

### 3.8.4 Remote Upgrade

After the device detects the new router version from Web server, the device will upgrade the new version automatically, and the device can upgrade the new version manually after you click the “Upgrade” button.

Remote Upgrade	
Upgrade Status	No available new version!
Remote Firmware Upgrade	<input checked="" type="checkbox"/>
Action	Check Upgrade
Apply	

Figure 3-8-4-1 Remote Upgrade

**Note:**

- 1) The firmware version must be suitable for the corresponding hardware;
- 2) Please make sure the adequate and stable power supply while upgrading.