

KW9522 User Manual



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1 Introduction

Thank you for choosing our product. The KW9522 LTE Router is fully complies with IEEE802.11b/g/n standards. It will provide you with convenient Internet everywhere.

1.1 Main Features

1.1.1 Wireless

- Fully IEEE 802.11b /g /n compatible.
- Wireless data rate up to 150 Mbps
- Operating in the unlicensed 2.4 GHz ISM band
- Supports 64/128 bits WEP, WPA, WPA2, WPA/WPA2-PSK, 802.1x

1.1.2 Network Protocol and Features

- Internet Control Message Protocol (ICMP)
- IP Static Routing
- Routing Information Protocol (RIP, RIPv2)
- Network Address Translation (NAT)
- Dynamic Host Configuration Protocol (DHCP)
- DDNS

1.1.3 Firewall

- Built-in NAT
- MAC Filtering
- Packet Filtering
- Stateful Packet Inspection (SPI)
- Denial of Service Prevention (DoS)

1.1.4 Management Support

- Web Based GUI
- Upgrade or update via FTP/HTTP

- Firmware upgrade-able for future feature enhancement

1.1.5 Operating System Support

- WINDOWS 98/SE/ME/2000/XP/VISTA/6/8
- Macintosh/IOS/Android/Blackberry
- LINUX

1.1.6 Environmental

- Operating temperature:0~40°C
- Storage temperature:-40~60°C
- Operating humidity: 10%-90% non-condensing
- Non-operating storage humidity: 5%-95% non-condensing

1.2 Packet Contents

The packet contents are as the following:

- LTE ROUTER x 1
- USB data cable x 1
- Battery x 1
- Manual x 1

1.3 System Requirements

- PCs with a working USB data cable connect to LTE router.
- TCP/IP protocol on each PC
- Web browser, such as Microsoft Internet Explorer, Mozilla Firefox or Apple Safari

1.4 Factory Defaults

The device is configured with the following factory defaults:

- IP Address: 192.168.0.1
- Subnet Mask: 255.255.255.0

1.5 Warnings and Cautions

- Never use the product near water.

- To guarantee a better performance, don't use LTE router near microwave, Bluetooth devices, cordless phone, other wireless network devices.

2. Hardware Installation

This chapter introduces the Hardware interface, meanwhile shows you how to connect Router.

Side Panel



Icon	Function
USB	Power supply and use USB data cable to surf Internet
WPS	Press WPS button to auto connect with wireless device
Reset	Reset to factory default

Front Panel



Icon	Function
	Power on and Power off. View screen details.
	Show signal strength
	WiFi strength
	Battery usage
	Date rate of LTE
	USB connection

Back Panel



SD card slot

SIM card slot

You can insert the LTE SIM card, SD card and battery. Then fasten battery cover.

How to connect the KW9522?

1. Using an USB data cable to connect the PC USB port and the router will auto connect with your computer.
2. Connect the power cable to the PWR connector on ROUTER, then plug in the power adapter to the AC power outlet, and then press the on-off button.

3 PC Configuration Guide

For windows 7

- 1) Click “**Start -> Control Panel-> Network and Internet -> View networks status -> Change adapter settings**”
- 2) Right-click **Wireless Network Connection**(or Local Area connection), and then click **Properties**.
- 3) Select **Internet Protocol Version 4(TCP/IPv4)**, and then click **Properties**.
- 4) Select **Obtain an IP address automatically** and **Obtain DNS Server address automatically**. Then click OK.

For Windows 8

- 1) Move your mouse to the lower right corner and click the **Serch** icon in the popus.
- 2) Go to **Apps**, type **Control Panel** in the serche box and press enter.
- 3) Go to “**Control Panel ->l View networks status-> Change adapter settings**”
- 4) Right-click **Ethernet**,select **Properties**, then double-click **internet protocol version 4(TCP/IPv4)**.
- 5) Select **Otain an IP address automatically** and **Obtain DNS Server address automatically**. Then click OK.

For windows XP

- 1) Click “**Start**” -> **Control Panel -> Network and Internet Connection -> Network Connections**”
- 2) Right-click **Wireless Networks Connection** (or Local Area Connection), and then click **Properties**.
- 3) Select **Internet Protocol (TCP/IP)**, and then click **Properties**.
- 4) Select **Otain an IP address automatically** and **Obtain DNS Server address automatically**. Then click OK.

For Mac OS X

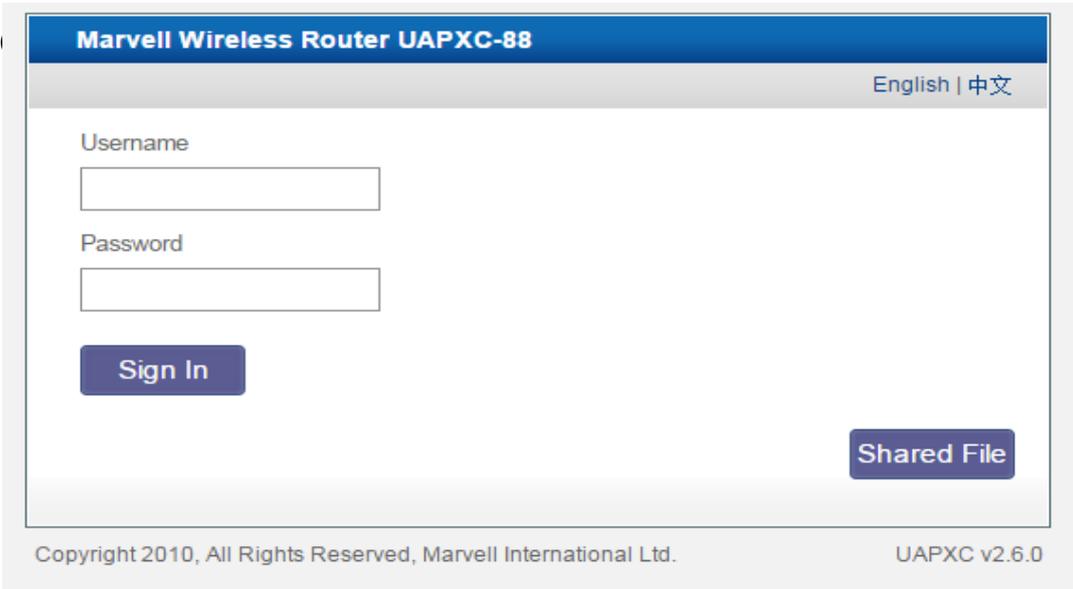
- 1) Click the **Apple** icon on the upper left corner of the screen.
- 2) Go to “**System Preference**” -> **Network** ”.
- 3) Select **Airport** on the left menu bar, and then click **Advanced** for wireless configuration; or select **Ethernet** for wired configuration,
- 4) In the **Configure IPv4** box under TCP/IP, select **Using DHCP**.
- 5) Click **Apply** to save the settings.

4 Quick Setup of the Router

In order to use the web-based management software, it will be necessary to use a computer that occupies the same subnet as the Router. The simplest way to do this for many users will be to use DHCP server that is enabled by default on the Router. please make sure the wan connection is ok.

Internet Connection Setup Wizard will guide you through a step-by-step process to configure your LTE router and connect to the Internet. It will guide you through a step-by-step process to configure your router and connect to the Internet.

- (1) Launch a web browser, such as Internet Explorer, and then use <http://192.168.0.1> to log on to the setting pages. Enter username “admin” and password “admin”, then click “OK”.



Marvell Wireless Router UAPXC-88

English | 中文

Username

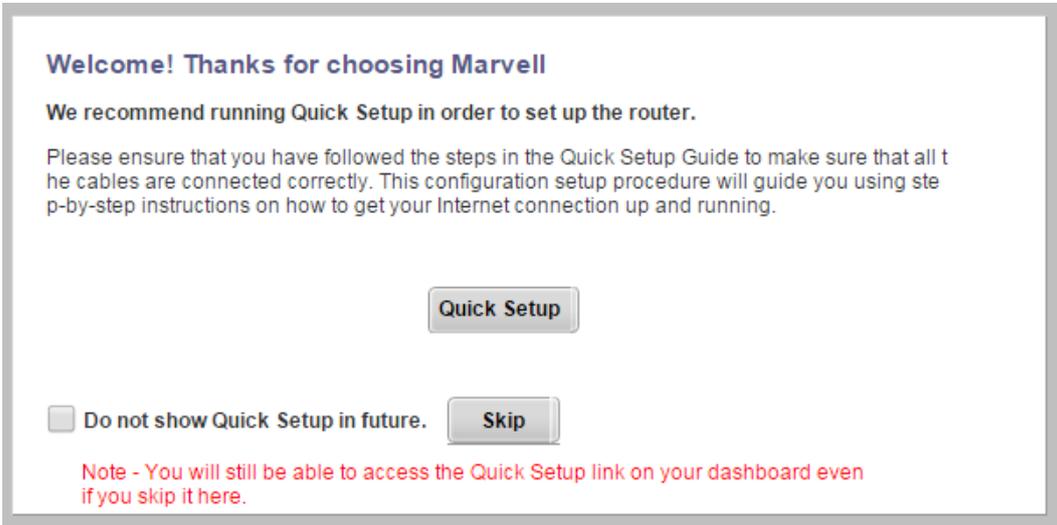
Password

Sign In

Shared File

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- (2) After log on, you will see the following page. Click Quick Setup.



Welcome! Thanks for choosing Marvell

We recommend running Quick Setup in order to set up the router.

Please ensure that you have followed the steps in the Quick Setup Guide to make sure that all the cables are connected correctly. This configuration setup procedure will guide you using step-by-step instructions on how to get your Internet connection up and running.

Quick Setup

Do not show Quick Setup in future. Skip

Note - You will still be able to access the Quick Setup link on your dashboard even if you skip it here.

(3) You can set your router username and password here and if you change it please use your new username and password to logon next time. Then click next.

User Settings Internet Connection **Wireless Settings** Device Placement Guidelines

User Settings

Router Username:

Router Password:

Exit Setup Next

(4) You can choose Network Mode in following drop-down menu, default is 4G/3G/2G multi-mode. Then you can select LTE type TDD-LTE or FDD-LTE by your demand. MTU is adjustable manually and Auto APN is on by default. Then click next.

User Settings **Internet Connection** Wireless Settings Device Placement Guidelines

Choose the method to be used by the device to connect to the internet

My Internet Connection is

Version Switch
 Auto switch version

Network Mode

Preferred LTE Type

Connection Mode:
 prohibit automatic dial-up in the roaming status.

MTU
 (1000-1500)

Auto APN
 Auto Configure APN

Dial in Roaming

Engineering Mode

PDN1 Settings:
 PDN1(Default Bearer)
 Dedicated Bearer1 TFT Setting

Exit Setup Back Next

(5) You can set a wireless Network Name (SSID) and choose a encryption mode and change your wireless password. Then click next.

User Settings → Internet Connection → **Wireless Settings** → Device Placement Guidelines

Wireless Network Settings

Network Name (SSID):

Network Visibility Status:
 Visible Invisible

Wireless Security:
 ▼

Password:

Unmask Password

WPA Cipher:
 ▼

Exit Setup

(6) Please pay attention to the Device Placement Guidelines and after the configuration above, Click **Finish** button then you can surf the Internet.

User Settings → Internet Connection → Wireless Settings → **Device Placement Guidelines**

It is recommended that you do not place your wireless router near a Microwave, Home Cordless Phone, a Baby Monitor, Bluetooth devices (such as a headset or a Bluetooth keyboard or a Bluetooth mouse) and any other wireless network devices.

 Microwave	 Bluetooth Devices
 Cordless Phone	 Other Wireless Network Devices
 Baby Monitor	

5 Web-based basic Management Guide

This chapter will introduce how to configure your router in details, the Internet page allows you to set your router if you quit using Quick Setup.

5.1 Home Page Basic Settings

The screenshot displays the router's web-based management interface. At the top, there is a navigation bar with tabs for Dashboard, Internet (selected), Home Network, PhoneBook, SMS, Wireless, and Router. On the left side, there is a sidebar menu with options: Internet Connection (selected), Traffic Statistics, PIN Management, Manual Network, and Traffic Setting. The main content area is titled 'Internet Connection' and contains the following settings:

- My Internet Connection is:** Cellular
- Version Switch:** WCDMA (with an unchecked checkbox for 'Auto switch version')
- Network Mode:** 4G/3G/2G multimode
- Preferred Network Mode:** 4G Preferred
- Preferred LTE Type:** TD-LTE preferred
- Connection Mode:** Auto (with an unchecked checkbox for 'prohibit automatic dial-up in the roaming status')
- MTU:** 1500 (with a red note '(1000-1500)')
- Auto APN:** Auto Configure APN
- Dial in Roaming:** Enable
- Engineering Mode:** Disabled
- PDN1 Settings:**
 - PDN1(Default Bearer)
 - Dedicated Bearer1
 - TFT Setting

You should choose My Internet Connection is Cellular.

Version Switch depending on your ISP and has two type for choice WCDMA/TD-SCDMA. If you not sure about it you can click Auto switch version.

Network Mode contains a drop-down menu, default is 4G/3G/2G multi-mode and you can select a single mode as your demand.

Preferred Network Mode: We select 4G Preferred for a better network speed.

Preferred LTE Type: Here you can select LTE type TDD-LTE or FDD-LTE by your network.

Connection Mode: Here we select Auto. If you don't want roaming service happen you can click prohibit automatic dial-up in the roaming status.

MTU is adjustable and you can manually change it from 1000 to 1500. Auto APN is on by default. Then save your settings.

5.2 Home Network Settings

You can configure the LAN IP parameters, default setting is 192.168.0.1 and DHCP Enabled. You can Enable DNS Configure Switch and manually input DNS IP address. In Home Network you can check Connected Devices information including device name, status, IP address, MAC address, connected time. In Device Traffic you will see all the device information and you can block the device by the information. In Network Activity you can see all the WiFi Client Access Logs including Connected/Disconnected Time. For Custom Firewall you can set Port Filter and Port Forwarding for a secure network.

The screenshot shows the 'Home Network' settings page. The navigation bar at the top includes 'Dashboard', 'Internet', 'Home Network' (selected), and 'PhoneBook'. On the left, a sidebar menu lists 'DHCP Settings' (selected), 'Connected Devices', 'Device Traffic', 'Network Activity', 'Custom Firewall Rules', 'Port Filter', and 'Port Forwarding'. The main content area is titled 'DHCP Settings' and contains the following fields:

- DHCP Range:** 192.168 . 0 . X
- Router LAN IP:** 192.168.0.1
- DHCP Server:** Enabled Disabled
- DHCP Start Address:** 192 . 168 . 0 . 100
- DHCP End Address:** (field is empty)

5.2.1 LAN Settings

You can configure the IP parameters of the LAN on the screen as below.

DHCP Settings

DHCP Range:
192.168 ▾ · 0 · X

Router LAN IP:
192.168.0.1

DHCP Server:
 Enabled Disabled

DHCP Start Address:
192 · 168 · 0 · 100

DHCP End Address:
192 · 168 · 0 · 200

DHCP Range: Select the IP address of your DHCP server.

Router LAN IP: Enter the IP address of your Router or reset it in dotted-decimal notation (factory default: 192.168.0.1).

DHCP Server: Enable or Disable the DHCP server. If you disable the Server, you must have another DHCP server within your network or else you must configure the computer manually.

DHCP Start Address: Specify an IP address for the DHCP Server to start with when assigning IP addresses. 192.168.1.100 is the default start address.

DHCP End Address: Specify an IP address for the DHCP Server to end with when assigning IP.

Click the Save button to save your settings.

5.3 Wireless Settings

You can configure the basic settings for the wireless network on this page.

Wireless network is enabled and use 802.11b/g/n compatible mode.

Wireless Settings	<p>Wireless Settings</p> <p>Status: <input checked="" type="radio"/> Enabled <input type="radio"/> Disabled</p> <p>802.11 Mode: <input type="text" value="802.11n(b/g compatible)"/></p> <p>Channel Bandwidth: <input type="text" value="20 MHz"/></p> <p>Primary Channel: <input type="text" value="Automatic"/></p> <p>Band40 ACS Switch <input checked="" type="radio"/> Enabled <input type="radio"/> Disabled</p> <p>Maximum Simultaneous Clients: <input type="text" value="8"/></p> <p>Beacon Period Setting <input type="text" value="100"/> (in msec(50~4000))</p> <p>DTIM Interval Setting <input type="text" value="1"/> (1~100)</p> <p>AP Isolate Switch <input type="text" value="Close"/></p>
--------------------------	---

Then modify a SSID and set a password for your wireless network.

Wireless Security Settings	<p>Wireless Security Settings</p> <p>Network Name (SSID): <input type="text" value="L02D-1102"/></p> <p>Network Visibility Status: <input checked="" type="radio"/> Visible <input type="radio"/> Invisible</p> <p>Wireless Security: <input type="text" value="WPA-WPA2 Mixed"/></p> <p style="text-align: center;"><input type="button" value="Add WPS Client"/></p> <p>Password: <input type="text" value="••••••••"/></p> <p><input type="checkbox"/> Unmask Password</p> <p>WPA Cipher: <input type="text" value="WPA-TKIP/WPA2-AES"/></p>
-----------------------------------	---

Network Name (SSID): Also called the SSID. Enter a value of up to 32 characters. The same name must be assigned to all wireless devices in your network

Network Visibility Status: You can hide your SSID by this option then other can't see your wireless network name.

Password : nothing or enter 8~64 characters for the wifi password.

Save your wireless configuration and you can surf a secured Internet.

Wireless MAC Filters allows you to restrict MAC address to your wireless network.

Wireless Settings

Wireless Security Settings

Wireless MAC Filters

Wireless MAC Filters

MAC Filters:

Enabled Disabled

Mode Settings:

Allow Deny

Deny List

Wireless Client MAC Address	
No entries found.	

MAC Filters: When you enable this function your Allow list or Deny list will be effective.

Mode settings: Allow option let you add a MAC list for device access only. Network access open to allow list devices. Deny option make you to forbid related MAC address device access to wireless network.

User Management

Configuration Management

Software Upgrade

Reboot Router

Power Off Router

Time Setting

SD Card File

SD Card Management

User Management ?

Add New Account

User Accounts

User Name	Access Level	Action
admin	Standard	Delete
user	Restricted	Delete

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User Management: You can add new account for management. Within user account you can get a different access level for users.

Configuration Management: Use this option to restore factory settings and update configuration file through this option. In addition you can export configuration file to your PC.

Software Update: Software Update option shows current software version and click browse key to select new firmware to upgrade your device.

Reboot Router: Press Reboot Router button to reboot your device.

Power Off Router: Press this button to power off the router.

Time Setting: After input Year/Month/Day Hour:Minute:Second Then save current time.

5.4 Time setting

User Management	Time Setting ? Year\Month\Day: <input type="text" value="2015"/> / <input type="text" value="1"/> / <input type="text" value="1"/> Hour:Minute:Second(24H): <input type="text" value="0"/> : <input type="text" value="39"/> : <input type="text" value="7"/> NTP Status <input checked="" type="radio"/> Enabled <input type="radio"/> Disabled <hr/> <input type="button" value="Save Current Time"/>
Configuration Management	
Software Upgrade	
Reboot Router	
Power Off Router	
Time Setting	
SD Card File	
SD Card Management	

This page allows you to set the time manually or to configure automatic time synchronization. The Router can automatically update the time from an NTP server via the Internet.

Note: After you have made your changes, Click **Save Current time** to apply the changes.

5.5 Password

Quick Setup

User Settings
Internet Connection
Wireless Settings
Device Placement Guidelines

User Settings

Router Username:

Router Password:

[Exit Setup](#)

Click User Settings and you can configure router username and router password in the blank.

After configuration please click next and save your settings.

Note: Please remember use your new username and password to access the setting page.

5.6 Backup/restore/reset

Configuration Management ?

Restore Factory Settings

This option resets the router to the factory defaults. The existing settings will be lost.

Restore Factory Settings

Please choose configuration file(*.bin) to update.

Please make sure you connect to MIFI using USB cable before upgrade.

Device will reboot after update configuration file.

Browse

Update

Click below link to export configuration file.

[Export configuration file.](#)

Save Acatlog to SD Settings

SD Format: *No SD Card*

This option will require user to set save acat dump log to SD card or not, This log is for debug usage.

Save

Click the **Export configuration file** button to save all configuration settings to your local computer as a file. Click the **Browse** button to find the configuration file which you want to restore.

Click the **Update** button to update the configuration with the file whose path is the one you have input or selected in the blank.

Click the **Restore Factory Settings** button to reset all configuration settings to their default values.

- The default User Name: admin
- The default Password: admin
- The default Subnet Mask: 255.255.255.0

Note: All changed settings will be lost when defaults are restored.

5.7 Firmware update



The screenshot shows the 'Software Upgrade' page. On the left is a navigation menu with options: User Management, Configuration Management, Software Upgrade (highlighted), Reboot Router, Power Off Router, Time Setting, SD Card File, and SD Card Management. The main content area is titled 'Software Upgrade' and includes a help icon. Under 'Software Information', it shows 'Current Software Version: NOTIONI_L02D_V005' and 'Current Software Date: Apr 2 2015'. A text block explains that users can manually upgrade the router if they have a file. A warning states: 'Warning!!! Please make sure you connect to MIFI using USB cable before upgrade.' Below this is a file selection field with a 'Browse' button and an 'Upgrade' button at the bottom right.

Click **Browse** and select the firmware upgrade file. Then click **Upgrade**.

Warning: Upgrading firmware may take a few minutes; please don't turn off the power or press the reset button.

Upgrade must not be interrupted!!



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