



User Manual

LTE Mobile Router

DWR-930

Preface

D-Link reserves the right to revise this publication and to make changes in the content hereof without obligation to notify any person or organization of such revisions or changes.

Manual Revisions

Revision	Date	Description
1.0	March 25, 2014	• Initial release

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Product Overview

Package Contents



D-Link DWR-930 LTE Mobile Router



Battery



USB Cable



Power Adapter

If any of the above items are missing from your package, please contact your reseller.

System Requirements

- A compatible (U)SIM card with mobile data service¹
- A computer with Windows®, Macintosh®, or Linux-based operating systems
- Internet Explorer 7, Firefox 12, Chrome 20, or Safari 4

¹ Subject to services and service terms available from your carrier.

Introduction

The D-Link DWR-930 LTE Mobile Router lets you share a fast mobile Internet connection with multiple PCs and mobile devices wherever you go. It offers 4G LTE and 3G HSPA+ compatibility for fast downlink and uplink data rates, so you get the high-speed upload and download speeds even when you're on the go. Set up a personal mobile network anywhere, anytime allowing you and those around you to access the Internet, and share files.

High-Speed Mobile Internet with LTE Connectivity

The DWR-930 LTE Mobile Router gives you high-speed access to the Internet wherever you are and lets you share it on the go. Using LTE technology, you can achieve download speeds of up to 100 Mbps and upload speeds of up to 50 Mbps¹. The built-in LTE antenna provides a reliable connection to your mobile service provider, and a separate Wi-Fi antenna gives extended coverage to the computers and mobile devices connected to the DWR-930.

Mobile Internet for All of Your Devices

The LTE Mobile Router lets you share your fast mobile connection over Wi-Fi from a device small enough to fit in your pocket. With the DWR-930, you can get online with your notebook, smartphone, tablet, or any other wireless device using a single mobile connection. The DWR-930 provides high-speed Wireless N coverage to give high-speed wireless access to everybody – whether you are with colleagues on a business trip, or travelling with friends and family.

Built-in Software for Instant Access Anywhere

The DWR-930 is truly plug and play, with drivers built right into the router so you can connect without the need to install anything. Open a browser, connect the router, and you can set up your network right from a web interface. This means that notebooks and netbooks without a CD-ROM drive can connect and get up and running in no time. Once the device is set up, you can simply power it on to start up your portable mobile network, meaning that you can share your mobile Internet connection without even needing a computer.

Designed for True Portability

The DWR-930 LTE Mobile Router is small and slim enough to carry around in your purse, bag, or pocket. It features a microSD card slot for optional removable storage (up to 32 GB), allowing you to always have your files and contacts on hand. The built-in 1880 mAh rechargeable Li-Ion battery can provide hours of mobile usage, meaning that you can share your mobile Internet connection in the car, in the park, or anywhere, and work or play longer without needing to recharge.

¹ All references to speed are for comparison purposes only. Actual speeds will vary depending on a range of factors including mobile network coverage, signal strength, network activity, and environmental conditions.

Hardware Overview

Top Side



Power Button	Press and hold this button for 6 seconds to power on/off the device.
WPS Button	Press this button to add new wireless devices quickly and easily using Wi-Fi Protected Setup (WPS).
microSD Card Slot	Insert a microSD Card (up to 32GB) to access and share files and media wherever you go.

Hardware Overview

Bottom Side

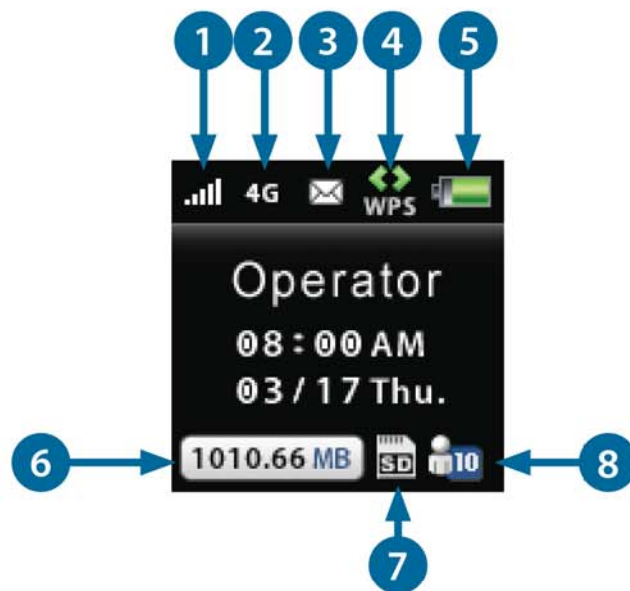


micro USB Connector	Use the included cable to connect to a powered USB port to charge the device, or to access the configuration utility.
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Hardware Overview

LCD Display

The current status of the DWR-930's functions including mobile network, Wi-Fi, security, Internet status, signal strength, and battery level will be shown on the LCD display. Please refer to the table below for the specific indications which are shown on the display.



Number	Function	Icon	Indication
1	Network Strength	0-5 Bars	Indicates the strength of the current mobile network connection
2	Network Type	4G	Currently connected to 4G mobile network
		H+	Currently connected to DC-HSPA or HSPA+ mobile network
		H	Currently connected to HSPA mobile network
		3G	Currently connected to WCDMA mobile network
		2G	Currently connected to GPRS/EDGE network
		No SIM	No SIM card detected in device

3	SMS	Number	There are unread SMS messages in the inbox
4	Wi-Fi Protected Setup	WPS	The device is ready for WPS association with wireless clients
5	Battery Status	Empty-Full	Displays the current battery level. If charging, the animation will indicate charging status and current battery level
6	Data Transfer	Number	Displays the current amount of data that has been transmitted.
7	External Media	SD Card	Indicates the SD card has external media loaded and is ready.
8	Wi-Fi & Clients	Number	Indicates the number of clients currently connected to the device by Wi-Fi

Installation

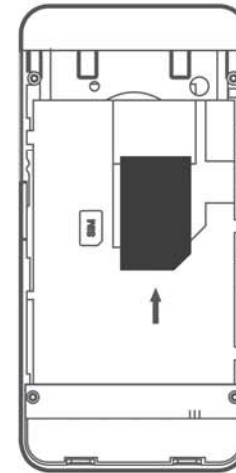
This section will guide you through the installation process.

Connect to Your Network

1. Ensure that your DWR-930 LTE Mobile Router is powered off.
2. Remove the back cover and take out the battery. Slide your (U)SIM card into the slot provided, ensuring that the alignment is the same as indicated by the logo next to the slot. The gold contacts on the card should be facing downwards.

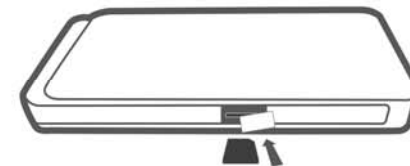
Caution: Always unplug and turn off the router before installing or removing the SIM card. Never insert or remove the SIM card while the router is in use.

3. Press and hold the power button on the side of the router.
 - a. "D-Link" will be displayed on the screen as the router performs its initialization processes.
 - b. After a few moments, the LCD display will show the current status of the router's various functions. For more details on the LCD display, please refer to "LCD Display" on page 5.



Insert a microSD Card

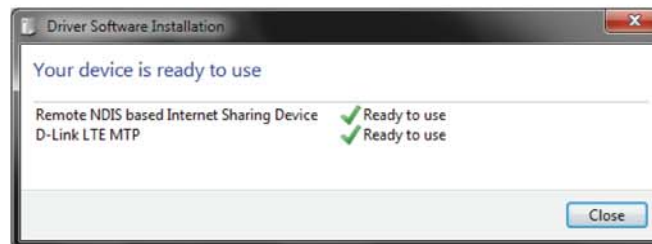
1. Ensure that your DWR-930 LTE Mobile Router is powered off.
2. Open the cover of the microSD slot on the side of the router.
3. Insert the microSD card into the slot and push it in until it locks into place.



Driver Installation

When you plug the DWR-930 into your computer, any necessary drivers will immediately install (with your permission).

Note: These drivers are Windows-only. Mac and Linux users will still be able to configure the DWR-930 using the web configuration utility described in “Configuration Utility” on page 13.



Wireless Installation Considerations

The DWR-930 can be accessed using a wireless connection from anywhere within the operating range of its wireless network. Keep in mind that the quantity, thickness, and location of walls, ceilings, or other objects that the wireless signals must pass through may adversely affect wireless signals. Ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or office. The key to maximizing the wireless range is to follow these basic guidelines:

1. Minimize the number of walls and ceilings between the router and other network devices. Each wall or ceiling can reduce your adapter's range from 3 to 90 feet (1 to 30 meters).
2. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (0.5 meters) appears to be almost 3 feet (1 meter) thick at a 45-degree angle. At a 2-degree angle it appears over 42 feet (14 meters) thick. Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
3. Try to position access points, wireless routers, and computers so that the signal passes through open doorways and drywall. Materials such as glass, metal, brick, insulation, concrete, and water can affect wireless performance. Large objects such as fish tanks, mirrors, file cabinets, metal doors, and aluminum studs may also have a negative effect on range.
4. If you are using a 2.4 GHz cordless phone, make sure that the 2.4 GHz phone base is as far away from your wireless device as possible. The base transmits a signal even if the phone is not in use. In some cases, cordless phones, X-10 wireless devices, and electronic equipment such as ceiling fans, fluorescent lights, and home security systems may dramatically degrade wireless connectivity.

Configuration

This section will show you how to configure your new D-Link mobile router using the configuration utility that can be obtained through a software interface or a web-based user interface.

Initial Connection to the Router

When configuring the router for the first time, you will need to establish a direct connection with the router in order to access the web-based configuration utility. This can be done using the included USB cable, or by connecting wirelessly to the DWR-930. Once you have configured your router, you will be able to connect using the Wi-Fi settings that you have specified in the configuration process. Ensure that the router is powered on and has sufficient battery power before commencing the setup process.

Connect via USB

To connect to the router via USB, plug the provided micro USB cable into the micro USB port on the bottom of the router, and plug the other end into an available USB port on your computer. Your router is now ready for configuration, please refer to "Configuration Utility" on page 13 to continue the setup process.

Connect via Wi-Fi

Note: The following example uses Windows 7's built-in wireless connection utility. If you are using a different operating system, or a third party connection utility, the process may be different. Please refer to the documentation that came with your operating system or wireless client for further information on how to connect to a wireless network.

To connect to the router using Wi-Fi, open your operating system's wireless networking utility and scan for available networks to connect to. By default, the network name (SSID) of the DWR-930 will be in the format **dlink_DWR-930xxxx**, where "xxxx" represents the last four character's of the DWR-930's MAC address.



Once you have located this network with your wireless utility, connect to the network using your wireless networking utility.



You will then be prompted to enter the network security key for your router. The unique security key for your router will be displayed on a sticker in the router's battery bay. Enter the security key in the box provided and click **OK**. Your wireless connection utility should confirm that the connection is successful, and you can move to the next step to continue to the configuration process.

You can also setup a connection using the Windows built in WPS feature. Please see "Connecting to a Wireless Network" on page 59.



Web-based Configuration

To access the configuration utility, open a web browser (such as Internet Explorer) and enter the IP address of the router, which is **192.168.0.1** by default.



Configuration Utility

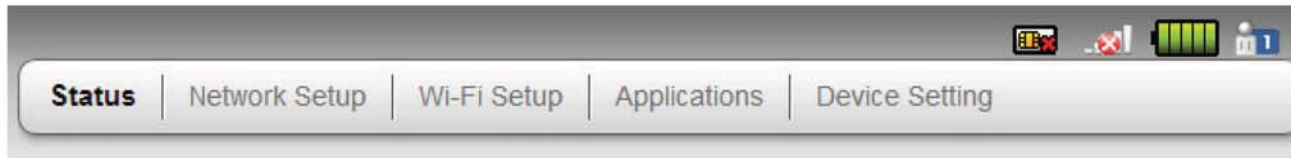
Once you have reached the configuration utility through the installed software or your web browser, you will need to log in. Enter **admin** as the username, and then enter the password. By default, the password is blank. You can also select your language from the drop-down menu.

Click **Login** to continue.



Navigation

Throughout the interface you will find a menu bar at the top of the page which includes tabs for easy navigation, and a summary bar in the upper right corner with a quick view of essential information.



SIM: This icon shows whether or not a compatible (U)SIM card has been inserted into the device.

Signal Strength: Indicates the current strength of the mobile network signal being received.

Battery Strength: Indicates the current strength of the battery.

Client Count: Indicates the current number of connected clients.

Status: The **Status** tab will return you the home page, where a summary of the system information is shown.

Network Setup: The **Network** tab allows you to configure the network settings for your Local Area Network (LAN).

Wi-Fi Setup: The **Wi-Fi** allows you to configure your Wi-Fi network, as well as add new devices using WPS.

Application: The **Application** tab allows you to configure firewall and security settings to protect your network from WAN-side intrusions.

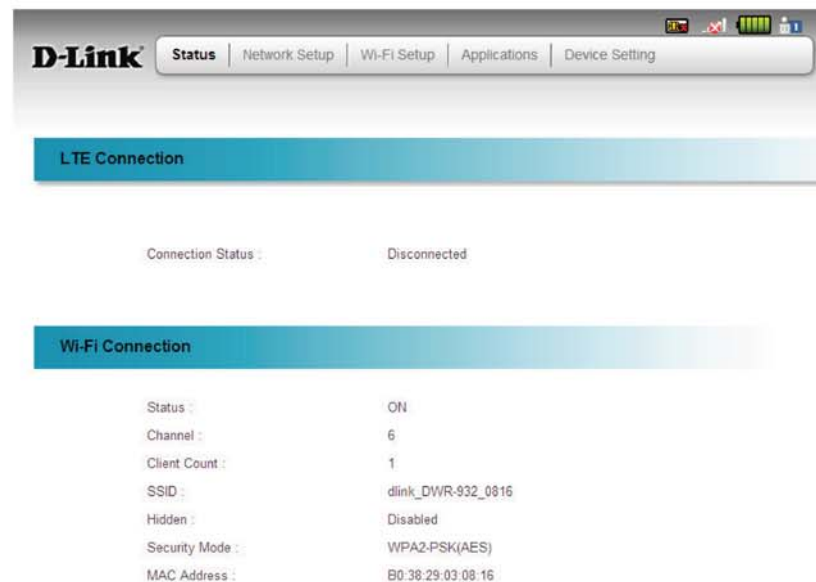
Device Setting: From this tab, you can manage the administrative configuration of your router, such as time and date, firmware, language, and remote management.

Status

A summary of the device's current status will be displayed on the initial homepage for the DWR-930.

LTE Connection: This area shows the current status of your LTE mobile network connection.

Wi-Fi Connection: This area displays a summary of the current settings for the router's Wi-Fi connection.



The screenshot shows the D-Link web interface. At the top, there is a navigation bar with the D-Link logo and menu items: Status, Network Setup, Wi-Fi Setup, Applications, and Device Setting. The main content area is divided into two sections: LTE Connection and Wi-Fi Connection.

LTE Connection

Connection Status :	Disconnected
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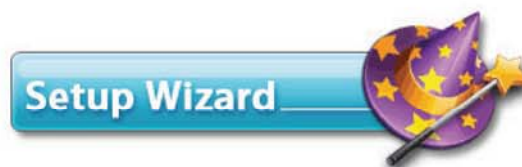
Wi-Fi Connection

Status :	ON
Channel :	6
Client Count :	1
SSID :	dlink_DWR-932_0816
Hidden :	Disabled
Security Mode :	WPA2-PSK(AES)
MAC Address :	B0:38:29:03:08:16

Network Setup

Quick Setup

The **Wizard** page will guide you through the steps required to configure the basic settings of your router such as the IP address, network name (SSID), and password. Click on the **Start** button to begin the quick setup wizard.



Start

If you don't have a SIM card inserted into the DWR-930, the screen shown to the right will be displayed. You will need to power off the device, insert a SIM, and restart the wizard to complete the quick setup process.



If you do have a SIM card inserted, the DWR-930 will initialize it and attempt to connect to your mobile service provider. If your SIM card has a lock on it, you will be prompted to enter the PIN code to access it. If it does not have a SIM lock, you can click **Next** to continue.



Mobile Network Settings allows you to configure the settings needed to connect to your mobile service provider. If you do not know this information, please contact your service provider.

Auto Connect: Check this option if you want the DWR-930 to automatically connect to a mobile network after it has been powered on, or has been disconnected from its current mobile network.

Roaming: Select whether you would like to **Enable** or **Disable** mobile network roaming from the drop-down menu.

Caution: Roaming on networks other than your own may incur additional usage charges.

Network Mode: Select your preferred cellular network connection mode

APN

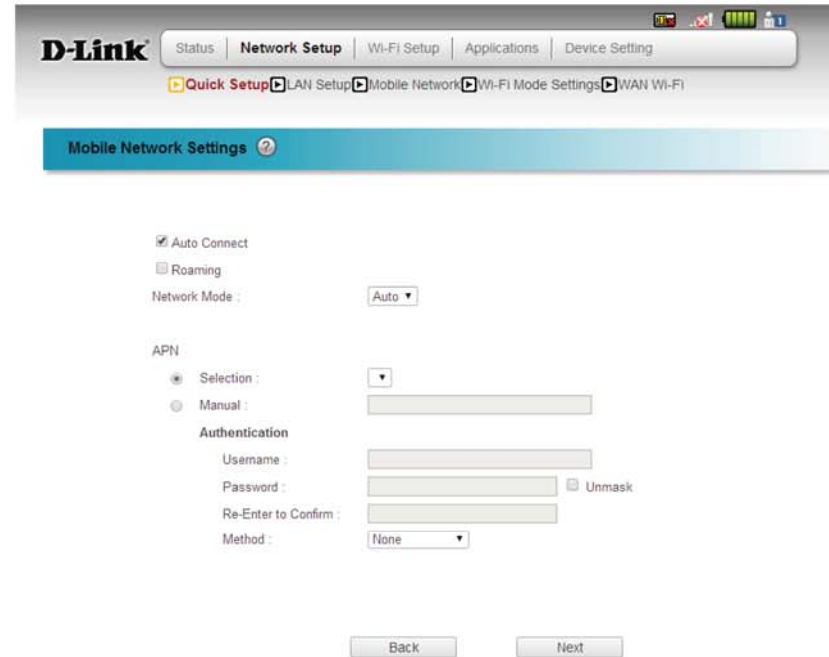
Selection: If you are already connected to a mobile network, your ISP may provide the necessary APN which you can select from the drop down list.

Manual: Enter the Access Point Name (APN) for the connection. If you do not know this information, please contact your service provider.

Username: Enter the username to be used for this connection.

Password: Enter the password to be used for this connection.

Method: Choose the authentication method that you ISP uses to connect to its mobile network. If you do not know this information, please contact your service provider.



Wi-Fi Settings and Wi-Fi Security allows you to configure the settings for connecting to the Wi-Fi connection on the DWR-930. By default, the DWR-930 operates the Wi-Fi in single mode. To find out more about the different Wi-Fi modes, please see “Wi-Fi Mode Settings” on page 24.

SSID: If you wish to change your wireless network name (SSID), enter a new name in the field provided. If you change the SSID, you may need to re-connect to the router using the new SSID before you can access your network or the configuration utility.

Channel: To have the router automatically select the optimal wireless channel, select **Auto** from the drop-down menu. If you wish to select a particular channel, select it from the drop-down menu.

Broadcast Network Name: This option allows you to hide your wireless network. When this option is checked, your wireless network name is broadcasted to anyone within the range of your signal. If you are not using encryption then they could connect to your network.

Security Mode: You will need to choose one of the following options; **Disable**, **WPA-PSK(TKIP)**, **WPA-PSK(AES)**, **WPA2-PSK(TKIP)**, **WPA2-PSK(AES)**, **WPA-PSK-MIXED**. Please refer to “Wi-Fi Protected Access (WPA)” on page 28 to learn more about these options.

Security Key: Choose a password for your wireless security. Clients will need this password in order to access your network wirelessly. If you are currently connected to the router using Wi-Fi, you will need to reconnect to the router using your new password once the wizard has been completed.

Click **Done** to complete the wizard, or click **Back** to return to the previous page.

After you have clicked **Done**, a confirmation window will appear. Click **Apply** to save the configuration.

The screenshot shows the D-Link router's configuration interface. At the top, there are navigation tabs: Status, Network Setup, Wi-Fi Setup, Applications, and Device Setting. Below these are sub-tabs: Quick Setup, LAN Setup, Mobile Network, Wi-Fi Mode Settings, and WAN Wi-Fi. The main content area is divided into two sections: Wi-Fi Settings and Wi-Fi Security.

Wi-Fi Settings:

- Network Name (SSID): dlink_DWR-932_0816
- Channel: Auto (Current Channel: 6)
- Broadcast Network Name (SSID): Enabled

Wi-Fi Security:

- Security Mode: WPA2-PSK(AES)
- Security Key: [Redacted] Unmask

At the bottom of the security section, there are two buttons: Back and Finish.

LAN Setup

The DWR-930 has a built-in DHCP server which can assign IP addresses to connected clients. This section allows you to configure the IP address for the DWR-930 as well as configure its DHCP settings.

NETWORK SETUP

IP Address: If you wish to change the router's IP address, enter the new address here. If you change the IP address from the default, you will need to enter the new address in your Internet browser's address bar in order to access the web-based configuration utility.

DHCP SETUP

DHCP Server: Select either **Enabled** or **Disabled** for the DHCP server on your DWR-930.

Start IP Address: Enter the starting IP addresses for the DHCP server's IP assignment.

Number of Addresses: Enter the number of IP addresses to be allocated by the DHCP server IP assignment.

DHCP Address Range: Shows the starting and ending IP addresses for the DHCP server's IP assignment.

Click **Apply** to save the configuration.

The screenshot displays the D-Link web-based configuration utility. At the top, there is a navigation bar with the D-Link logo and several menu items: Status, Network Setup (highlighted), Wi-Fi Setup, Applications, and Device Setting. Below the navigation bar, there are several sub-menu items: Quick Setup, LAN Setup (highlighted), Mobile Network, Wi-Fi Mode Settings, and WAN Wi-Fi. The main content area is divided into two sections: Network Setup and DHCP Setup. In the Network Setup section, the Local IP Address is set to 192.168.0.1. In the DHCP Setup section, the DHCP Server is set to Enabled, the Start IP Address is 192.168.0.2, the Number of Address is 64, and the DHCP Address Range is 192.168.0.2 to 192.168.0.65. An Apply button is located at the bottom right of the DHCP Setup section.

Mobile Network

Mobile Network Settings

Auto Connect: Check this option if you want the DWR-930 to automatically connect to a mobile network after it has been powered on, or has been disconnected from its current mobile network.

Roaming: Select whether you would like to **Enable** or **Disable** mobile network roaming from the drop-down menu.

Caution: Roaming on networks other than your own may incur additional usage charges.

Network Mode: Select your preferred cellular network connection mode.

APN

Selection: If you are already connected to a mobile network, your ISP may provide the necessary APN which you can select from the drop down list.

Manual: Enter the Access Point Name (APN) for the connection. If you do not know this information, please contact your service provider.

Username: Enter the username to be used for this connection.

Password: Enter the password to be used for this connection.

Method: Choose the authentication method that your ISP uses to connect to its mobile network. If you do not know this information, please contact your service provider.

The screenshot shows the D-Link Mobile Network Settings page. At the top, there is a navigation bar with the D-Link logo and tabs for Status, Network Setup, Wi-Fi Setup, Applications, and Device Setting. Below the navigation bar, there are several menu items: Quick Setup, LAN Setup, Mobile Network (highlighted), Wi-Fi Mode Settings, WAN Wi-Fi, Mobile Network Settings (highlighted), SIM Card Lock Settings, and Operator. The main content area is titled 'Mobile Network Settings' and contains the following settings:

- Auto Connect
- Roaming
- Network Mode :
- APN
 - Selection :
 - Manual :
- Authentication
 - Username :
 - Password : Unmask
 - Re-Enter to Confirm :
 - Method :

An 'Apply' button is located at the bottom right of the settings area.


SIM Card Lock Settings

This section allows you to turn SIM lock on or off for the SIM card which is currently inserted into the router.

PIN Code: Enter the PIN code for the SIM card. Click **Enable** to turn on SIM lock, or click **Disable** to turn off SIM lock.

Click **Apply** to save the configuration.



 SIM card doesn't exist.



 3 attempts remaining.

To Enable PIN Protection

PIN Code :

Operator

This page allows you to view available Public Land Mobile Networks (PLMN). This page can also be used to select a preferred network when you are roaming outside of your home network.

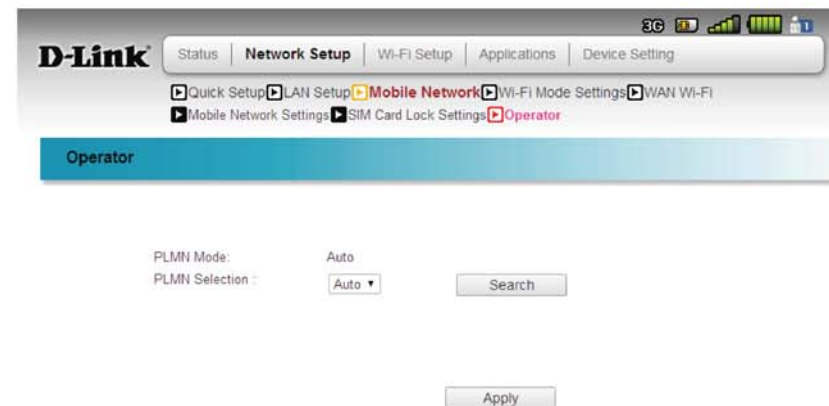
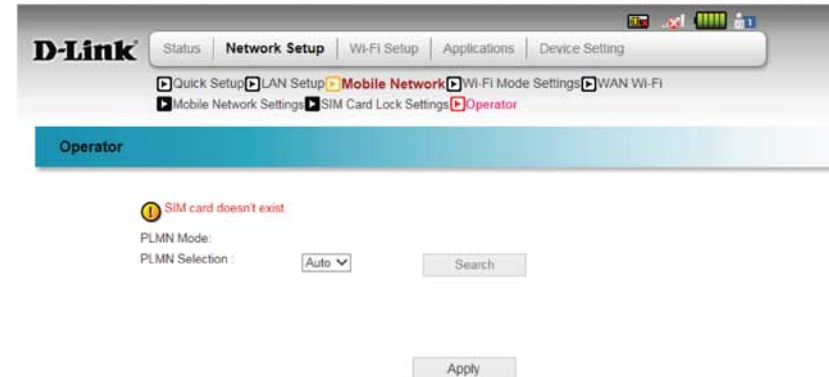
PLMN Mode: Displays the current mode the DWR-930 is operating in.

PLMN Selection: Select **Auto** to allow the DWR-930 to automatically connect to the first available network when roaming. Select **Manual** to choose your preferred roaming network from the list below.

If you have selected Manual mode, click on the preferred network to select it, and then click the **Update** button to select that network as the preferred network. Click **Search** to refresh the list of available networks.

Note: You will need to manually disconnect the current mobile data service before selecting a network using PLMN.

Click **Apply** to save the configuration.



Wi-Fi Mode Settings

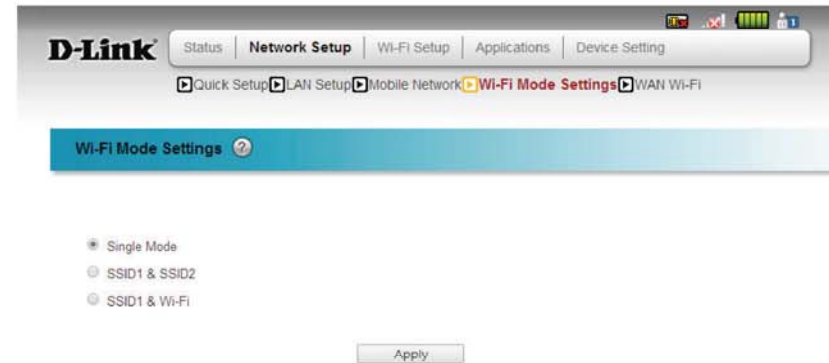
This section lets you select the mode for Wi-Fi operation with the DWR-930.

Single Mode: Single Mode supports up to 10 Wi-Fi clients for sharing the mobile Internet through the DWR-930.

SSID1 & SSID2: This mode splits the usage between two different SSIDs. Each SSID can have up to 5 different Wi-Fi clients connected for sharing the mobile Internet through the DWR-930.

SSID1 & Wi-Fi: This mode only allows a single user the ability to be connected for using the mobile Internet through the DWR-930.

Click **Apply** to save the configuration.



WAN Wi-Fi Profile Management

This section lets you setup different profiles to use when connecting to different Wi-Fi hot spots.

Add: Click the **Add** button to setup a new profile to use when connecting to a specific Wi-Fi hot spot. This will open a new page where you can input the necessary SSID and security information needed to connect.

Network Name (SSID): If you wish to change your wireless network name (SSID), enter a new name in the field provided. If you change the SSID, you may need to re-connect to the router using the new SSID before you can access your network or the configuration utility.

IP Protocol: Select either DHCP or Static. If you select static you will need to enter the necessary network information needed to establish a connection to your mobile service provider. If you do not know this information, please contact your service provider.

Security Mode: You will need to choose one of the following options; **Disable**, **WPA-PSK(TKIP)**, **WPA-PSK(AES)**, **WPA2-PSK(TKIP)**, **WPA2-PSK(AES)**, **WPA-PSK-MIXED**. Please refer to "Wi-Fi Protected Access (WPA)" on page 28 to learn more about these options.

Click **Apply** to save the configuration.



AP List


This section lets you view the available Wi-Fi hotspots that are visible to the DWR-930.

Network Name (SSID): Displays the network name of an available hotspot.

Signal: Displays the signal strength of an available hot spot.

Security Key: Displays the type of security used by an available hot spot.

Channel: Displays the Wi-Fi channel used by an available hot spot.

Configure: Click on the  icon to add the Wi-Fi network to the profile management page. Please refer to “Profile Management” on page 25 for more details.



Network Name (SSID)	Signal	Security Key	Channel	Configure
_top_of_the_list			1	
aDlinkRouter			13	
convenience24			2	
868neutrino			1	
dlink_24g			6	
CX468			8	
Marie Antoinette			9	
BrokenArrow			9	
Champagne			3	
Gateway to the future!			11	
dlink-2D3C			2	
Connected Home Center			4	
DAP-1360L			1	
DIR-810L_080_2.4			3	
D-Link			11	
D-Link			6	

Wi-Fi Setup

Wi-Fi Settings

SSID: If you wish to change your wireless network name (SSID), enter a new name in the field provided. If you change the SSID, you may need to re-connect to the router using the new SSID before you can access your network or the configuration utility.

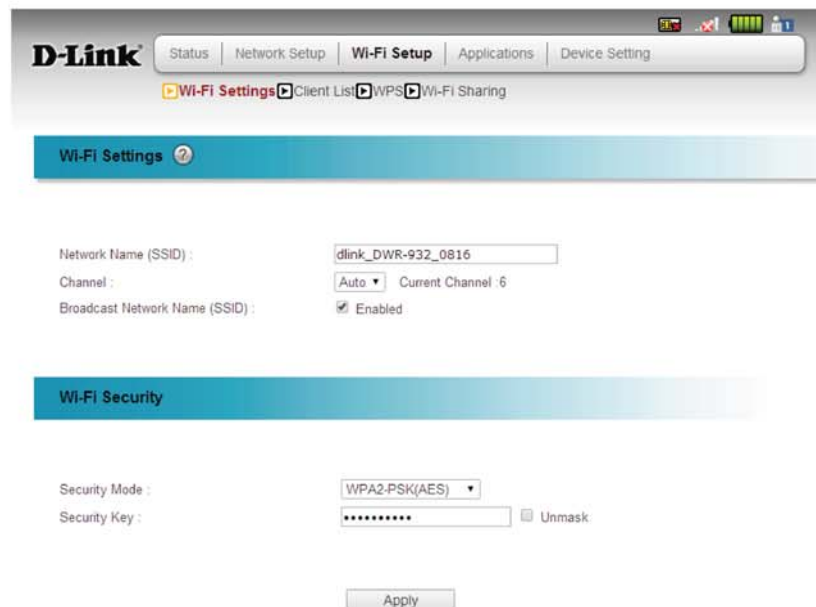
Channel: To have the router automatically select the optimal wireless channel, select **Auto** from the drop-down menu. If you wish to select a particular channel, select it from the drop-down menu.

Broadcast Network Name: This option allows you to hide your wireless network. When this option is checked, your wireless network name is broadcasted to anyone within the range of your signal. If you are not using encryption then they could connect to your network.

Security Mode: You will need to choose one of the following options; **Disable**, **WPA-PSK(TKIP)**, **WPA-PSK(AES)**, **WPA2-PSK(TKIP)**, **WPA2-PSK(AES)**, **WPA-PSK-MIXED**. Please refer to “Wi-Fi Protected Access (WPA)” on page 28 to learn more about these options.

Security Key: Choose a password for your wireless security. Clients will need this password in order to access your network wirelessly. If you are currently connected to the router using Wi-Fi, you will need to reconnect to the router using your new password once the wizard has been completed.

After you have clicked **Done**, a confirmation window will appear. Click **Apply** to save the configuration.



The screenshot displays the D-Link router's configuration interface. At the top, there is a navigation bar with tabs for Status, Network Setup, Wi-Fi Setup, Applications, and Device Setting. Below this, there are sub-tabs for Wi-Fi Settings, Client List, WPS, and Wi-Fi Sharing. The main content area is titled 'Wi-Fi Settings' and contains the following fields:

- Network Name (SSID): dlink_DWR-932_0816
- Channel: Auto (Current Channel: 6)
- Broadcast Network Name (SSID): Enabled
- Security Mode: WPA2-PSK(AES)
- Security Key: [Masked with dots] Unmask

An 'Apply' button is located at the bottom of the form.

Wireless Security

It is recommended that you enable wireless security on your router in order to protect your wireless network from unauthorized access. You should select a wireless security protocol that is compatible with the wireless clients which will be accessing your network.

Wi-Fi Protected Access (WPA)

Wi-Fi Protected Access (WPA) is a newer and more secure encryption protocol which makes significant improvements over WEP. There are two versions of WPA; the original WPA, and the newer WPA2.

Security Mode: Select the desired authentication method from the drop-down menu:

- Auto (WPA or WPA2)** - The router will automatically determine the version of WPA to be used based on the client that is connecting to it.
- WPA** - Clients will only be able to associate with the router using the WPA standard.
- WPA2** - Clients will only be able to associate with the router using the WPA2 standard. Clients which do not support WPA2 will not be able to associate with the router.

Select the desired cipher type from the drop-down menu:

- TKIP** - This cipher is used by the WPA standard.
- AES** - A newer cipher used by the WPA2 standard. Use of this cipher type is required in order to achieve 802.11 speeds.
- MIXED** - A combination of both cipher types for maximum compatibility.

Security Key: The pre-shared key is the password which clients will require in order to connect to your network. Enter a password of between 8 and 63 characters in length.

Click **Apply** to save the current settings



Wi-Fi Security

Security Mode : WPA2-PSK(AES) ▼

Security Key : Unmask

Apply

Client List

This page shows the current client list as well as allows you to set up MAC address filtering. The MAC filtering option allows you to allow or deny access to wireless clients based on their MAC address.

MAC Address Filter: Select the mode for the MAC filtering feature by choosing **Disable, Allow, or Deny** from the drop down box.

Client List: Enter the MAC address of the machine or station which you wish to filter.

Delete: Click the **Delete** button to delete the MAC address from the filter list.

Add: Click the **Add** button to delete the MAC address from the filter list.

Click **Apply** to save all changes and return to the Wi-Fi page.

The screenshot shows the D-Link web interface. At the top, there is a navigation bar with the D-Link logo and menu items: Status, Network Setup, Wi-Fi Setup, Applications, and Device Setting. Below this, there are sub-menu items: Wi-Fi Settings, Client List (highlighted), WPS, and Wi-Fi Sharing. The main content area is divided into two sections: Client List and Wi-Fi Mac Filter.

Client List: This section contains a table with the following data:

MAC Address	IP Address	Lease Time	Hostname	Connection Time	Filter
C8 D3 A3 03 43 86	192.168.0.2	47:59:04	07871PCWIN7E	00:01:00	Add

Wi-Fi Mac Filter: This section includes a "Filter Rule" dropdown menu set to "MAC Address Filter" and a "Disabled" status indicator. Below this is a "Client List" section with a text input field, a "Delete" button, and an "Add" button. An example MAC address is provided: (Example: 00:13:AE:B2:F8:52).

WPS

Wi-Fi Protected Setup (WPS) enables you to quickly and securely add compatible devices to your wireless network.

PBC: Click **Start PBC** to begin the Wi-Fi Protected Setup feature.

PIN: Check the box to enable PIN protection for use with the Wi-Fi Protected Setup feature.

PIN Code: A PIN is a unique number that can be used to add the router to an existing network or to create a new network.

PIN Enrollee: If the device you are trying to add to the network was provided with a PIN number, select this option and enter the device's PIN in the field.

For extra security, a new PIN can be generated. Click **Generate** to create a new PIN. The current PIN will be shown in the field next to **Current PIN**. This PIN can be used by wireless clients to join your network using the PIN method.

WPS Status: Check the box to enable the Wi-Fi Protected Status. The current status of the WPS feature will be shown in the **Status** field below.

Click **Apply** to save and continue.

The screenshot shows the D-Link WPS Setup web interface. At the top, there is a navigation bar with tabs for Status, Network Setup, Wi-Fi Setup, Applications, and Device Setting. Below this, there are sub-tabs for Wi-Fi Settings, Client List, WPS, and Wi-Fi Sharing. The main heading is "WPS Setup".

The interface includes the following fields and controls:

- PBC:** A "Start PBC" button.
- PIN:** A checkbox labeled "Enabled".
- PIN Code:** An empty text input field.
- PIN Enrollee:** A text input field containing the value "28296607".
- WPS Status:** A checkbox labeled "Configured" which is checked.
- Buttons:** "Start PIN", "Generate", "Default", and "Apply".
- Status:** A large empty text field.

Wi-Fi Sharing

Wi-Fi Sharing allows you to setup additional SSID's with the DWR-930 to allow multiple clients to connect to share an Internet connection or provide access to the built-in microSD storage.

Enable Sharing: Check this box to enable the Wi-Fi Sharing Feature.

Note: This feature is only available in SSID1 & SSID2 mode. You will need to enable this on the Wi-Fi Mode Settings page. Please see "Wi-Fi Mode Settings" on page 24 for more information on how to set this feature up.

Network Name: If you wish to change your wireless network name (SSID), enter a new name in the field provided. If you change the SSID, you may need to re-connect to the router using the new SSID before you can access your network or the configuration utility.

Broadcast Network Name (SSID): This option allows you to hide your wireless network. When this option is checked, your wireless network name is broadcasted to anyone within the range of your signal. If you are not using encryption then they could connect to your network.

Security Mode: You will need to choose one of the following options; **Disable**, **WPA-PSK(TKIP)**, **WPA-PSK(AES)**, **WPA2-PSK(TKIP)**, **WPA2-PSK(AES)**, **WPA-PSK-MIXED**. Please refer to "Wi-Fi Protected Access (WPA)" on page 28 to learn more about these options.

Security Key: Choose a password for your wireless security. Clients will need this password in order to access your network wirelessly. If you are currently connected to the router using Wi-Fi, you will need to reconnect to the router using your new password once the wizard has been completed.

The screenshot shows the D-Link router's configuration interface. At the top, there are navigation tabs: Status, Network Setup, **Wi-Fi Setup**, Applications, and Device Setting. Below these, there are sub-tabs: Wi-Fi Settings, Client List, WPS, and **Wi-Fi Sharing**. The main content area is titled 'Guest Settings' and contains a warning icon and text: 'Wi-Fi Sharing is only available in [SSID1 & SSID2] mode, please check here'. Below the warning, there are three settings: 'Enable Sharing' (checked, Enabled), 'Network Name (SSID)' (text field containing 'dlink_DWR-932_GUEST_0816'), and 'Broadcast Network Name (SSID)' (checked, Enabled). Below this is the 'Guest Security' section, which has a 'Security Mode' dropdown menu set to 'Disable'. An 'Apply' button is located at the bottom of the page.

Applications

Firewall Settings

Port Range Forward

The Port Range Forward tab allows you to configure the DWR-930 firewall settings and allow certain applications to be forwarded from the internal network, to the Internet.

Add: Click **Add** to add a new forwarding rule.

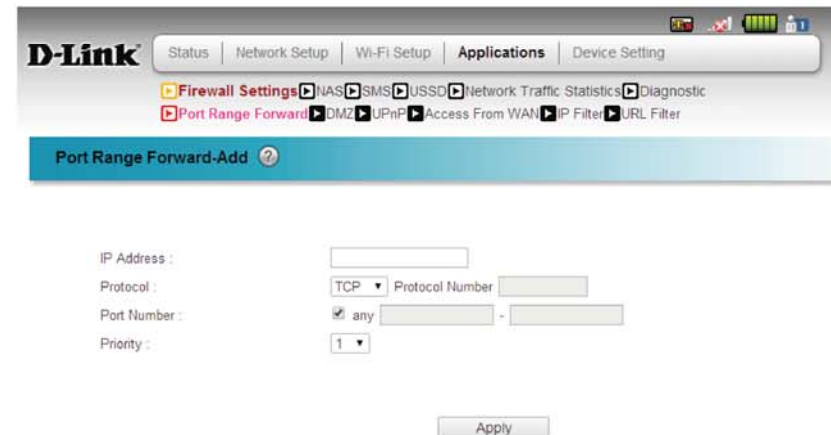
IP Address: Enter IP address to be forwarded.

Protocol: Select the protocol for the IP forward.

Port Number: Enter the starting port on the source IP.

Priority: Enter the priority for the forwarding rule being entered.

Click **Apply** to save the current configuration.



DMZ

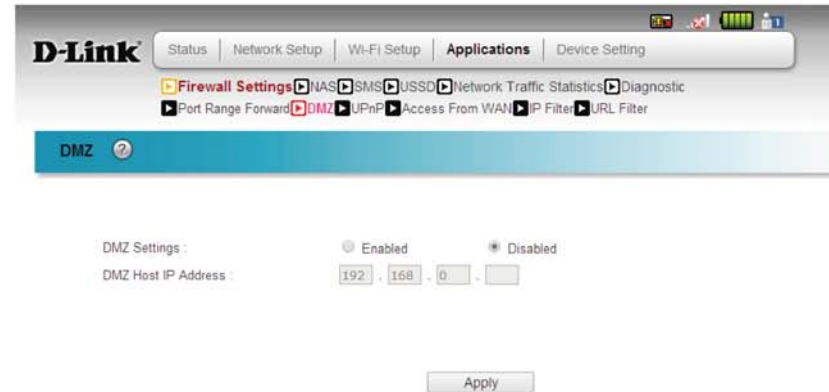
Sometimes you may want a computer exposed to the outside world for certain types of applications. If you choose to expose a computer, you can enable DMZ. DMZ is short for Demilitarized Zone. This option will expose the chosen computer completely to the outside world

Enable DMZ: If an application has trouble working from behind the router, you can expose one computer to the Internet and run the application on that computer.

Note: Placing a computer in the DMZ may expose that computer to a variety of security risks. Use of this option is only recommended as a last resort.

DMZ IP Address: Specify the IP address of the computer on the LAN that you want to have unrestricted Internet communication. If this computer obtains its IP address automatically using DHCP, be sure to make a static reservation on the **Setup > Network Settings** page so that the IP address of the DMZ machine does not change.

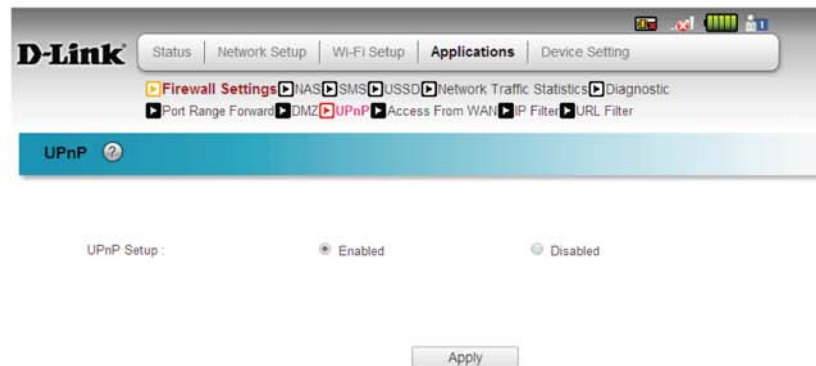
Click **Save Settings** to save your changes, or click **Don't Save Settings** to discard your changes.



UPnP

Newer devices that are network enabled may come with the ability to connect to the Internet using Universal Plug and Play (UPnP™) feature. This page allows you to enable or disable the UPnP feature of the DWR-930.

Enable UPnP: Check the box to enable the Universal Plug and Play (UPnP™) feature. UPnP provides compatibility with various networking equipment, software, and peripherals.



Access From WAN

The DWR-930 can allow remote administration via the internet if needed. For security purposes this feature is not enabled.

Access Web Server From WAN Side: Check this box to enable external remote access to the administration page of the DWR-930. It is highly recommended that you first setup a unique password for the administration of the DWR-930 before enabling this feature. Please see "Account" on page 50 for more information on how to setup a password.

Port Number: This is the port number used to access the router. 8088 is the port usually used for the web-management interface.



IP Filter

The DWR-930 can filter certain IP address and ports. IP Filtering will help to protect your network from outside intrusions and malicious attacks.

Click **Add** to add a new filtering rule.

Policy: Choose whether to Accept or Drop.

Protocol: Select the protocol for the IP filter rule.

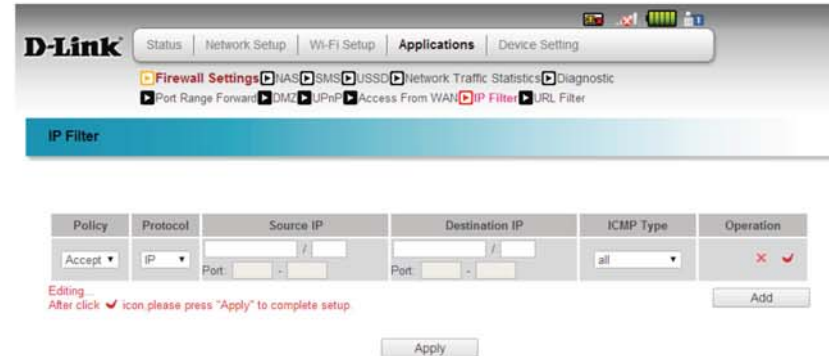
Source IP: Enter the source IP address to be filtered.

Source Port: Enter the port on the source IP.

Destination IP: Enter the destination IP address to be filtered.

Destination Port: Enter the port of the destination IP.

Click to save the filtering rule. Click **Apply** to save the current configuration.



URL Filter

The content filter allows you to deny access to specific URLs or keywords.

Enable URL Filter: Check the box to enable URL filtering.

Keyword: Enter the URL or keyword that you wish to deny access to. If you enter a domain name, all URLs under this domain will be denied access.

Delete: Click the Delete button to remove the selected keyword.

Click **Add** to save the rule and add it to the rule table. Click **Apply** to save the current configuration.

