D-Link®



User Manual

AC1750 Wi-Fi Router

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
1.00	February 4, 2016	Initial release

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Power Usage

This device is an Energy Related Product (ErP) with High Network Availability (HiNA), and automatically switches to a power-saving Network Standby mode within 1 minute of no packets being transmitted. It can also be turned off through a power switch to save energy when it is not needed.

Network Standby: 3.44 watts

Switched Off: 0.1 watt

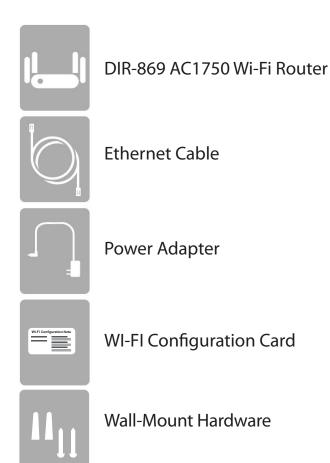
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Package Contents



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

Note: Using a power supply with a different voltage rating than the one included with the DIR-869 will cause damage and void the warranty for this product.

System Requirements

Network Requirements	 An Ethernet-based cable or DSL modem IEEE 802.11ac/n/g/b/a wireless clients 10/100 Ethernet
	Computer with the following: • Windows®, Macintosh, or Linux-based operating system • An installed Ethernet adapter
Web-based Configuration Utility Requirements	 Browser Requirements: Internet Explorer 11 or higher Firefox 20 or higher Safari 7 or higher Chrome 25 or higher
	Windows ° Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.
QRS Mobile Requirements	 iPhone®/iPad®/iPod Touch® (iOS 7.0 or higher) Android™ device (2.3.3 or higher)

Introduction

The D-Link DIR-869 AC1750 Wi-Fi Router shares your Internet connection over a blazing-fast Gigabit Wireless AC connection of up to 1750 Mbps (Up to 1300 Mbps 5 GHz Wireless AC and up to 450 Mbps 2.4 GHz Wireless N)¹, using advanced AC technology to maximize the speed and range of your wireless signal. Equipped with one Gigabit WAN/Internet port and four Gigabit ports to provide speeds up to 10x faster than standard 10/100 ports, the DIR-869 creates the best networking experience to date. With the addition of advanced Quality of Service (QoS), data streams are separated, which helps organize and prioritize your network traffic so your computers, game consoles, 3D/4K video streaming, gaming, and VoIP calls run smoother over both your wired and wireless network.

The DIR-869 features the strongest and most sensitive wireless radio we've ever built, offering four times the power of a typical wireless router², letting you blanket large areas or multi-story buildings with Wi-Fi. The DIR-869's superior design allows you to enjoy full motion, high definition video calls on your mobile device while moving around. The DIR-869 prepares your home to become a Connected Home by bringing Wi-Fi to places your old signal can't reach. A stronger Wi-Fi signal means you can install more wireless surveillance cameras, baby monitors, sensors, and alarms in the places where you need them.

Featuring a 3x3 MIMO antenna configuration, the DIR-869 offers better data rates, fewer dead-spots, more coverage, and higher reliability. Operating exclusively in the 5 GHz band, the DIR-869's 802.11ac wireless connections avoid crowded the 2.4 GHz band traffic, allowing you faster speeds while still maintaining backwards compatibility with older 802.11n/g/b devices.

Equipped with an easily accessible mode switch, the versatile DIR-869 can assist you in solving your unique networking challenges. In router mode, the DIR-869 operates as a traditional router, sharing your Internet connection. In extender mode³, the DIR-869 connects and works with your existing networking equipment to extend the range and enhance the capabilities of your home or office network. This means you can bring Wi-Fi to places where your current signal doesn't reach, letting you move from room to room, office to office, floor to floor, or yard to yard without losing signal. Enjoy Wi-Fi on your porch, balcony, next to your pool, breakroom, the far end of your office, or in your basement. The DIR-869's extender mode prepares your home to become a Connected Home by allowing you to install more wireless surveillance cameras, baby monitors, sensors, and alarms in the places where you need them.

D-Link Intelligent QoS Technology helps to increase network efficiency by analyzing network traffic and prioritizing it in order of importance. This way, two-way video, voice chat, and online gaming take priority over background network traffic such as a file downloads, ensuring you have optimal network performance.

The DIR-869 supports the latest wireless security features to help prevent unauthorized access, be it from over a wireless network or the Internet. Support for WPA™ and WPA2™ standards ensure that you will be able to use the best possible encryption regardless of your client devices. In addition, this router is equipped with a dual-active firewall (SPI and NAT) to prevent potential attacks over the Internet.

- 1 Maximum wireless signal rate derived from IEEE Standard 802.11a, 802.11g, 802.11n and 802.11ac specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental conditions will adversely affect wireless signal range.
- 2 Determined by FCC regulation. Maximum wireless transmission power output is subject to regional radio frequency guidelines.
- 3 Extender Mode Access Point functionality available at launch, additional functionality available via firmware update in Q3 2016.

Features

- **Superior Wireless Networking** The DIR-869 provides Gigabit wireless speeds of up to a combined 1750 Mbps (1300 Mbps 802.11ac 5 GHz, plus 450 Mbps 802.11n 2.4 GHz)¹. This capability rivals wired connections, allowing users to participate in real-time activities online, such as HD video communication, online gaming, and use mobile devices from anywhere in your home while still offering full 802.11n/g/b backward compatibility.
- Extreme Wired LAN and WAN Networking With four 10/100/1000 Gigabit Ethernet LAN ports, and a 10/100/1000 Gigabit Ethernet WAN port, the DIR-869 has an enormous amount of bandwidth to take full advantage of the highest speed broadband connections available. Powered by a 1.0 GHz Dual Core CPU, the DIR-869 has the brains and the power to simultaneously stream multiple HD videos to set top boxes and mobile devices, participate in online gaming with consoles or PCs, run a cloud-enabled home surveillance system, and copy massive files without slowdowns, lag, or stuttering.
- Advanced Firewall Features The web-based user interface displays a number of advanced network management features. Easily apply content filtering based on MAC address, URL, and/or domain name. Schedule these filters to be active on certain days or for a duration of hours or minutes.
- **Secure Multiple/Concurrent Sessions** The DIR-869 can pass through VPN sessions. It supports multiple and concurrent IPSec and PPTP sessions, so users behind the DIR-869 can securely access corporate networks.
- **User-friendly Setup Wizard** Through its easy-to-use web-based user interface or QRS Mobile (Quick Router Setup) App, the DIR-869 lets you quickly configure and secure your router to your specific settings in minutes.
- **Router or Extender Mode** With the flick of a switch, you can easily set up your DIR-869 to operate as the core device of your network in Router Mode, or add your DIR-869 to an existing network using Extender Mode using Ethernet.²

2 Extender Mode Access Point functionality available at launch, additional functionality available via firmware update in Q3 2016.

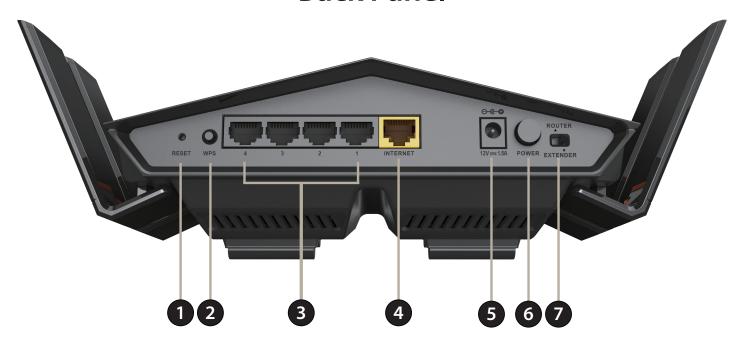
¹ Maximum wireless signal rate derived from IEEE Standard 802.11a, 802.11g, 802.11n and 802.11ac specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental conditions will adversely affect wireless signal range.

Hardware Overview LED Indicator



		Solid White	A solid white light indicates that the device is powered on and healthy.
	Power LED	Solid Orange	A solid orange light indicates that the device is booting or undergoing a factory reset.
•	Power LED	Blinking Orange	A blinking orange light indicates that the device is in recovery mode.
		Blinking White	A blinking white light indicates that WPS client search mode is active.

Hardware Overview Back Panel



1	Reset Button	To reset the device to its factory default settings, use a paper clip press and hold the reset button for 3 seconds.
2	WPS	Press to start the WPS process and automatically create a secure connection to a WPS client.
3	LAN Ports (1-4)	Connect 10/100/1000 Ethernet devices such as computers, switches, storage (NAS) devices, and game consoles.
4	Internet Port	Using an Ethernet cable, connect your broadband modem to this port.
5	Power Connector	Connector for the supplied power adapter.
6	Power Button	Press the power button to power the DIR-869 on and off.
7	Mode Switch	Select between Router and Extender modes. To change modes, move the switch to the desired position and after 5 seconds the router will reboot into the desired mode. Router is the default mode. Note: Extender Mode Access Point functionality available at launch, additional functionality available via firmware update in Q3 2016.

Operation Modes

The mode switch lets you choose how the DIR-869 operates. Select either **Router Mode** or **Extender Mode**.

- **Router Mode** shares your Internet connection. This is the factory default setting suitable for most users.
- Extender Mode extends your existing network.

Refer to the following pages for information on the DIR-869's operation modes. This information includes usage scenarios, cable diagrams, and network configuration information.



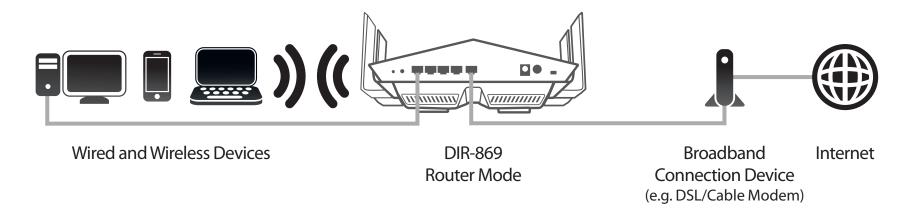
Note: Determine your desired type of operation and adjust the mode switch before you begin your installation. If the mode switch is adjusted while powered on, the DIR-869 will reboot into the new mode after five seconds.

Note: Extender Mode Access Point functionality available at launch, additional functionality available via firmware update in Q3 2016.

Router Mode

In **Router Mode**, the DIR-869 AC1750 Wi-Fi Router operates as the central device of your network. This is the most common type of installation and is the factory default mode switch setting suitable for most users. The DIR-869 connects to your cable modem, DSL modem, or other Internet source and shares your Internet connection with your wired and wireless devices.

Create a Home Network (Router Mode)



Use this mode for:

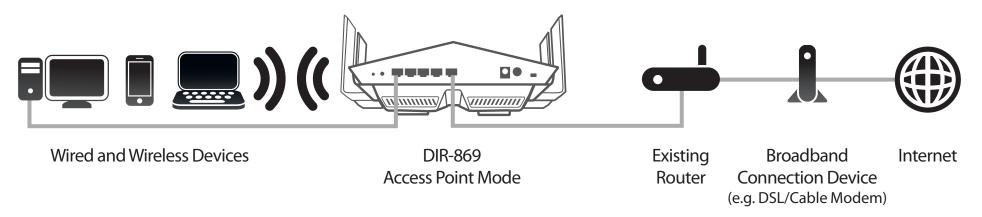
- Setting up a network for the first time.
- Replacing an existing router or network equipment.
- Adding a router to share a broadband connection which was previously connected to a single device.

Place your DIR-869 near your Broadband Internet Connection Device (e.g. DSL/Cable Modem) and connect via Ethernet cable.

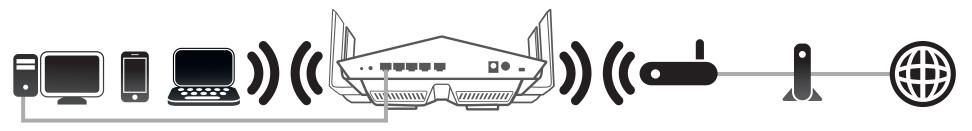
Extender Mode What is a Wireless Extender?

In **Extender Mode**, the DIR-869 AC1750 Wi-Fi Router operates in conjunction with your existing networking equipment to provide Wi-Fi for parts of your home or office that may have poor or no reception. Use this mode with an existing router which is sharing your Internet connection. Place the DIR-869 in an area where you wish to get Wi-Fi, but is reachable by Ethernet cables or Wireless signals from your uplink network.

Create a Wireless Network Using Ethernet (Access Point Mode)



Extend Your Wireless Network Using Wi-Fi (Extender Mode)



Wired and Wireless Devices

DIR-869 Extender Mode Existing Router

Broadband Connection Device (e.g. DSL/Cable Modem) Internet

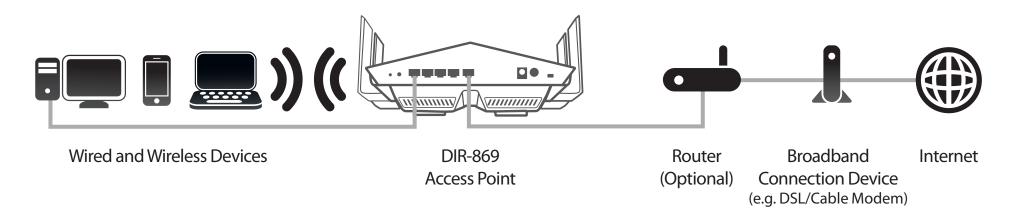
Note: Extend Your Wireless Network using Wi-Fi (Extender Mode) available via firmware update in Q2 2016.

Access Point

Create a Wireless Network using Ethernet

The DIR-869 operates as an Access Point when the mode switch is in the **Extender** position and an Ethernet cable is connected to the Internet Port from an uplink network. When configured as an Access Point, the DIR-869 connects your wireless devices together, but does not provide routing functionality. It also allows a connected wired devices to connect to your other devices wirelessly. This can be useful if you already have an existing Internet router that does not have built-in wireless capabilities. The DIR-869 creates a new wireless network and devices connected via Wi-Fi and LAN ports obtain IP addresses from the existing router. Use a Gigabit capable Ethernet connection where possible to ensure the best networking experience.

Create a Wireless Network using Ethernet (Extender Mode)



Use this mode for:

- Extending your current network.
- Bringing Wi-Fi to an area it doesn't currently reach.

Place your DIR-869 near the area you wish to bring Wi-Fi to and connect via Ethernet cable to your uplink network.

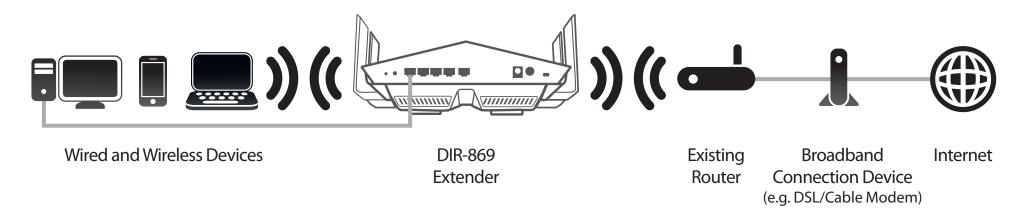
Note: Extending network to desired location via Ethernet may require purchase of additional cable.

Extender

Create a Wireless Network using Wi-Fi

The DIR-869 operates as an Extender when the mode switch is in the **Extender** position and the DIR-869 is connected wirelessly to an uplink network. The DIR-869 creates a new wireless network and devices connected via Wi-Fi and LAN ports obtain IP addresses from the existing router. Repeating a wireless signal reduces the total available amount of wireless bandwidth.

Extend Your Wireless Network Using Wi-Fi (Extender Mode)



Use this mode for:

- Extending your current network.
- Bringing Wi-Fi to an area it doesn't currently reach.
- Providing better signal for parts of your home or office that may have poor reception.
- Connecting devices which do not have a built-in wireless card, such as some smart TVs, game consoles, or DVRs.
- Networking areas where cables can't reach.

Place your DIR-869 near the area you wish to bring Wi-Fi to and connect via Wi-Fi to your uplink network.

Note: Extend Your Wireless Network using Wi-Fi (Repeater Mode) available via firmware update in Q3 2016.

Installation

This section will walk you through the installation process. Placement of the router is very important. Do not place the router in an enclosed area such as a closet, cabinet, attic, or garage.

Before you Begin

- Configure the router with the computer that was last connected directly to your Internet connection. Verify that it is connected to the Internet before connecting additional devices.
- If your ISP provided you with a modem/router combo, you will need to set it to "bridge" mode so the router can work properly. Please contact your ISP or refer to the user manual for your modem/router device.
- You can only use the Ethernet port on your modem. If you were using the USB connection before using the router, then you must turn off your modem, disconnect the USB cable and connect an Ethernet cable to the Internet port on the router, and then turn the modem back on. In some cases, you may need to call your Internet Service Provider (ISP) to change connection types (USB to Ethernet).
- If connecting to a DSL modem, make sure to have your DSL service information provided by your Internet Service Provider handy. This information is likely to include your DSL account's Username and Password. Your ISP may also supply you with additional WAN configuration settings which might be necessary to establish a connection.
- If you are connecting a considerable amount of networking equipment, it may be a good idea to take the time to label each cable or take a picture of your existing setup before making any changes.
- If you have DSL and are connecting via PPPoE, make sure you disable or uninstall any PPPoE software such as WinPoET, BroadJump, or EnterNet 300 from your computer or you will not be able to connect to the Internet.
- If you are using this device to extend the range of your existing wireless network, you may need to use trial and error to determine an acceptable placement location.

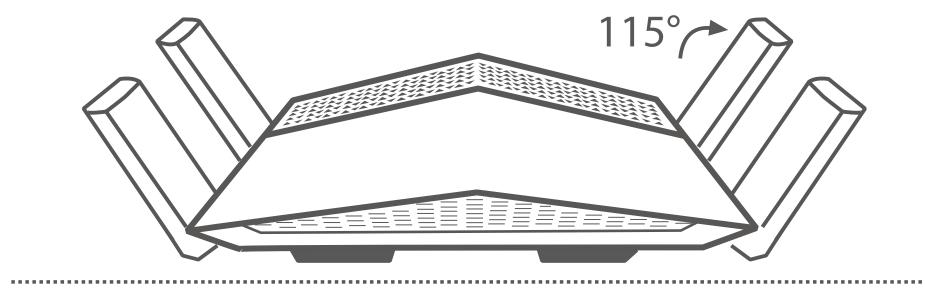
Wireless Installation Considerations

The D-Link wireless router lets you access your network using a wireless connection from virtually anywhere within the operating range of your wireless network. Keep in mind that the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through may limit the range. Typical ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or business. The key to maximizing wireless range is to follow these basic guidelines:

- 1. Keep the number of walls and ceilings between the D-Link router and other network devices to a minimum each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
- 2. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (0.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle it looks 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. Building materials make a difference. A solid metal door or aluminum studs may have a negative effect on range. Try to position access points, wireless routers, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete will degrade your wireless signal.
- 4. Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate RF noise.
- 5. If you are using 2.4 GHz cordless phones or X-10 (wireless products such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4 GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone is not in use.

Antenna Setup

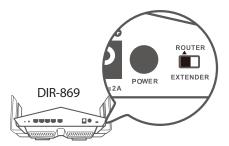
The DIR-869 is designed to give you the fastest, most stable network connection possible. In order to maximize performance, fully extend the antennas to provide optimal wireless coverage. Keep the router in an open area for better wireless coverage.



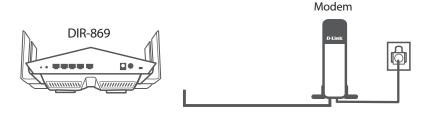
Hardware Setup

Router Mode

1. Inspect the mode switch to ensure that it is in the factory default **ROUTER** position. Adjust the switch if necessary.



2. Position your DIR-869 near your Internet-connected modem. Place it in an open area for better wireless coverage.



3. Turn off and unplug the power and Ethernet cable to your cable or DSL broadband modem. This is required. In some cases, you may need to turn it off for up to five minutes.



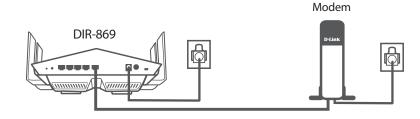
4. Use the included Ethernet cable to connect your modem to the yellow port labeled **INTERNET** on the router.



5. Turn on or plug your modem back in and wait approximately one minute before proceeding onward.



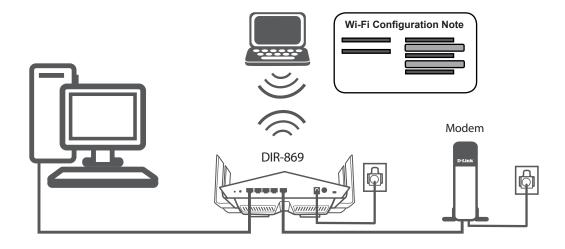
6. Connect the supplied power adapter to the router and a power outlet, press the power button, and wait approximately one minute until the LED indicator on the front of the device changes from orange to solid white.



Note: This unit is to be used with power supply model MU18A2120150-A1 or 2ABB018F US.

7. If you are configuring the DIR-869 wirelessly from a PC, connect to a Wi-Fi network printed on the included Wi-Fi Configuration Card. You can also find the Wi-Fi network names and passwords printed on the label attached to the bottom your router.

If you are configuring the DIR-869 from a PC with a wired Ethernet connection, plug one end of an Ethernet cable into the port labeled 1 on the back of the router, and the other end into the Ethernet port on your computer.

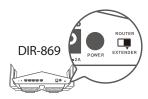


8. If you are connecting to a broadband service that uses a dynamic connection (not PPPoE), you may be online already. Try opening a web browser and connecting to a website. If the website does not load, proceed to **Getting Started on page 21**.

Hardware Setup

Extender - Access Point Mode

1. Inspect the mode switch to ensure that it is in **EXTENDER** position. Adjust the switch if necessary.

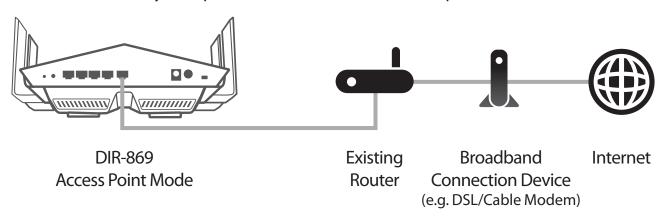


2. Position your DIR-869 near where you wish to extend Wi-Fi to. Place it in an open area for better wireless coverage.





3. Connect an Ethernet cable from your uplink network to the **INTERNET** port on the back of the DIR-869.

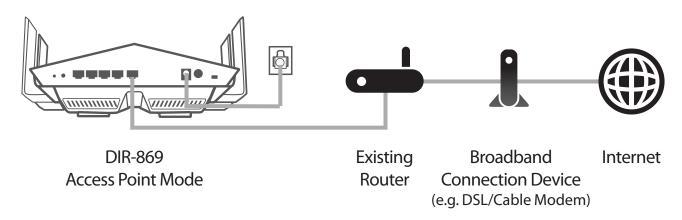


Note: Extending network to desired your location via Ethernet may require the purchase of additional cable.

Maximum CAT5e cable length is limited to 100 meters.

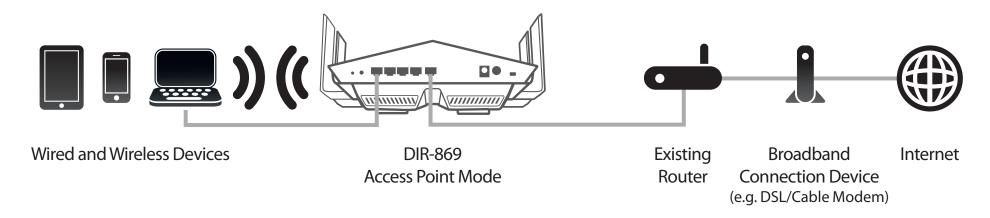
Use a Gigabit-capable Ethernet connection where possible to ensure the best networking experience.

4. Connect the supplied power adapter to the router and a power outlet, press the power button, and wait approximately one minute until the LED indicator on the front of the device changes from orange to solid white.



Note: This unit is to be used with power supply model DA-60N12.

5. Connect wired devices to the LAN ports on your DIR-869. Connect wireless devices to the Wi-Fi network printed on the included Wi-Fi Configuration Card. You can also find the Wi-Fi network names and passwords printed on the label attached to the bottom your DIR-869.



8. No further configuration is necessary, but if you wish to adjust the default settings, proceed to **Access Point - Extender Mode on page 31**.

Getting Started Router Mode

There are several different ways you can configure your router to connect to the Internet and connect to your clients:

- QRS Mobile App Use your Android device, iPhone, iPad, or iPod touch to configure your router. Refer to page 22.
- D-Link Setup Wizard This wizard will launch when you log into the router for the first time. Refer to page 27.
- Manual Setup Log into the router and manually configure your router. Refer to page 35.

QRS Mobile App

QRS Mobile app allows you to install and configure your router from your mobile device.

Note: The screenshots may be different depending on your mobile device's OS version.

Step 1

Search for the free **QRS Mobile App** on the iTunes Store or Google Play.









Step 2

Once your app is installed, you may now configure your router. Connect to the router wirelessly by going to your wireless utility on your device. Scan for the Wi-Fi name (SSID) as listed on the supplied info card. Select and then enter your Wi-Fi password.

D-Link Wi-Fi Configuration Card Default Configuration Wi-Fi Name(SSID) 2.4GHz: Wi- Fi Name (SSID) Wi-Fi Password: dlink-a8fa Wi-Fi Name(SSID) 5GHz Wi-Fi Password: akbdj19368 Wi-Fi Password 9 Your configuration To configure your router, go to: Username: "Admin' http://dlinkrouter.local Password: Or http://192.168.0.1 assword: " "(leave the field blank)

Step 3

Once you connect to the router, launch the QRS Mobile app from the Home screen of your device.

Note: The following steps show the Android interface of the QRS Mobile app. If you are using an iPhone, iPad, or iPod touch, the appearance may be different to that of the screenshots, but the process is the same.



Step 4

You will see the welcome screen. Tap **Start** to proceed, then enter your device password and tap **Log In**. Tap **Next** once the Operation Mode screen appears.





Step 5

At this point, please ensure that you the router is connected to a modem. Plug one end of the provided Ethernet cable into your DSL or cable modem, and plug the other end into the port marked INTERNET on the DIR-869. Tap **Next** to automatically detect your Internet connection and proceed to the next step.



Step 6

You will be asked to configure your 2.4 GHz wireless network. Enter a network name (SSID) of your choice, or leave it unchanged to accept the default SSID.

Next, choose a Wi-Fi password of at least 8 characters. Any device trying to connect to the router wirelessly will need to enter this password the first time it connects.

Tap **Next** to configure your 5 GHz wireless network. When satisfied, tap **Next** to proceed.





Step 7

Enter the administrator password of your choice. Unlike the Wi-Fi password, this password is only required when you need to configure the router. See **Configuration - Router Mode** on page **35** for details of when this password is used. Tap **Next** to proceed.



Step 8

If you wish to receive push notifications whenever a new firmware update is available, check the **Notify me when new firmware is available** box and tap **Next**.

Otherwise, just tap **Next** to proceed.



Step 9

You will be presented with a summary of your chosen settings. Tap **Save** to complete the setup.



Congratulations, your device has been successfully configured! You can share this information by tapping **Share By E-mail**, or tap **Finish** to exit the app.



Setup Wizard

If this is your first time installing the router, open your web browser and enter **http://dlinkrouter.local./** in the address bar. Alternatively, enter the IP address of the router (default: **http://192.168.0.1**).

The wizard is designed to guide you through a step-by-step process to configure your new D-Link router and connect to the Internet.

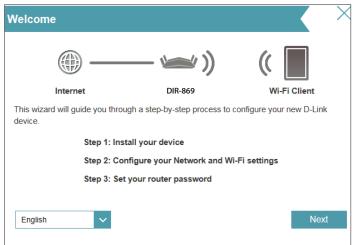
Click **Next** to continue.

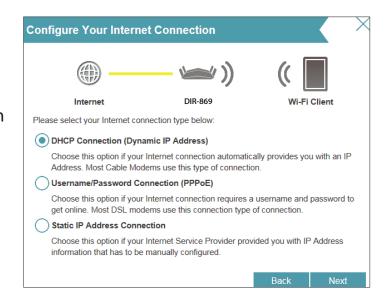
Please wait while your router detects your Internet connection type. If the router detects your Internet connection, you may need to enter your ISP information such as username and password.

If the router does not detect a valid Internet connection, a list of connection types to choose from will be displayed.

Select your Internet connection type (this information can be obtained from your Internet Service Provider) and click **Next** to continue.

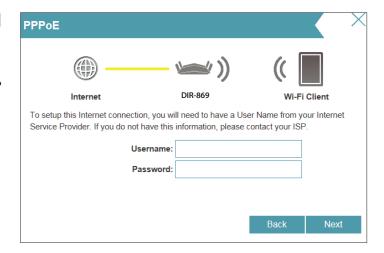




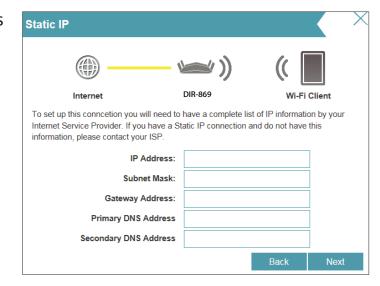


If the router detected or you selected **PPPoE**, enter your PPPoE username and password and click **Next** to continue.

Note: Make sure to remove your PPPoE software from your computer. The software is no longer needed and will not work through a router.

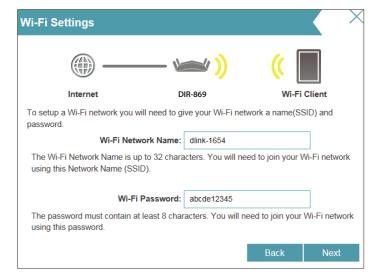


If the router detected or you selected **Static**, enter the IP and DNS settings supplied by your ISP. Click **Next** to continue.



Create a Wi-Fi password (between 8-63 characters). Your wireless clients will need to have this passphrase or key entered to be able to connect to your wireless network.

Click **Next** to continue.



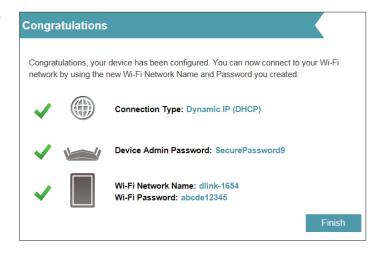
In order to secure the router, please enter a new password. You will be prompted for this password every time you want to use the router's web configuration utility. Click **Next** to continue.



You will be presented with a summary of your settings. Click **Next** to finalize the settings or **Back** to make changes.



At the end of the wizard, you will be presented with a final summary of your settings. Click **Finish** to close the wizard.



Getting Started Access Point - Extender Mode

Once the DIR-869 has been properly set up as an Access Point in Extender Mode as detailed in Section 2 - Installation, no further configuration is necessary in most cases. You may connect wired devices using Ethernet cables or connect wireless devices using the default wireless credentials printed on the Wi-Fi Configuration card. For more information about connecting wireless devices, refer to **Connect a Wireless Client to your Router** on page 104.

If you want to make changes to the default Access Point settings, such as the wireless network names or passwords, or need to perform advanced configuration setup you can do so using the web configuration utility. The web configuration utility has two main sections.

- **D-Link Setup Wizard** This wizard will launch when you log in for the first time if no Internet connection is detected. Refer to page 32.
- Manual Setup Log in and manually configure your device. Refer to Configuration Extender Mode Access Point on page 90.

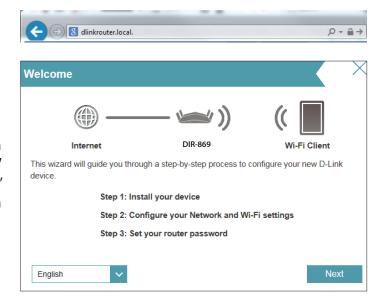
Setup Wizard

To access the setup utility for the DIR-869 Access Point in Extender mode on your PC, first connect to the DIR-869 using wired Ethernet cabling or wirelessly using the Wi-Fi name (SSID) and password located on your Wi-Fi Configuration Card. Then open a web browser and enter **http://dlinkrouter.local./** in your browser's URL field. You may also enter the IP address* of the DIR-869.

* By default the DIR-869 in extender mode will use DHCP to obtain an IP address from your uplink network. If you are using multiple DIR-869s or D-Link devices, go to **http://dlinkrouterxxxx.local./** as shown on the included Wi-Fi Configuration Card, with "xxxx" being the last four digits of the DIR-869's MAC address. The MAC address is also printed on the label on the bottom of the device.

The wizard is designed to guide you through a step-by-step process to configure your new D-Link router as an Access Point and connect to your network and the Internet.

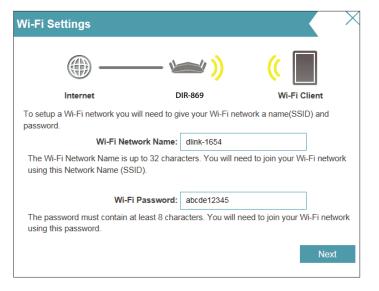
Click **Next** to continue.



Create a Wi-Fi password (between 8-63 characters). Your wireless clients will need to have this passphrase or key entered to be able to connect to your wireless network.

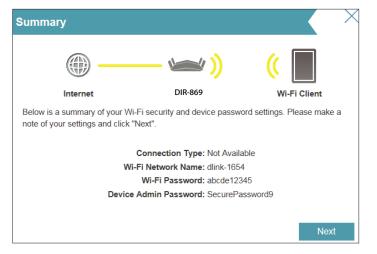
Click **Next** to continue.

In order to secure the router, please enter a new password. You will be prompted for this password every time you want to use the router's web configuration utility. Click **Next** to continue.

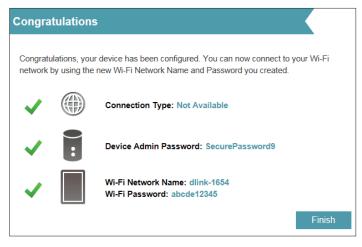




You will be presented with a summary of your settings. Click **Next** to finalize the settings or **Back** to make changes.



At the end of the wizard, you will be presented with a final summary of your settings. Click **Finish** to close the wizard.



Configuration - Router Mode

To access the configuration utility, open a web-browser such as Internet Explorer and enter **http://dlinkrouter.local./** or you may also connect by typing the IP address of the router (by default this is **http://192.168.0.1**) in the address bar.

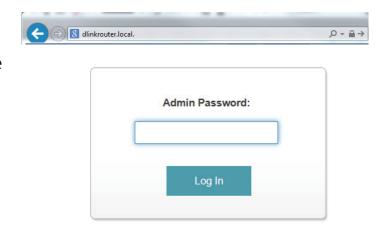
Enter your password. If you previously followed the setup wizard, please use the admin password you entered during the wizard. Otherwise, leave the password blank. Click **Log In** to proceed.

Note: If you cannot remember your password and cannot log in, press the reset/wps button on the back of the device for longer than 10 seconds to restore the router to its default settings.

The router's home page will open displaying its current connection status.

The bar at the top of the page has quick access to Settings and Management functions. You may quickly jump back Home at any time.

Note: The system will automatically log out after a period of inactivity.





Home

The Home page displays the current status of the router in the form of an interactive diagram. You can click each icon to display information about each part of the network at the bottom of the screen. The menu bar at the top of the page will allow you to quickly navigate to other pages.

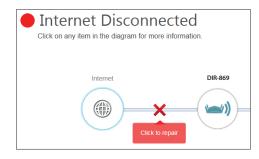
Internet

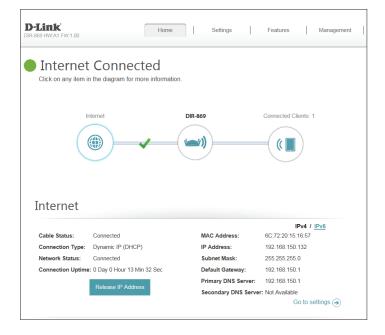
The Home page displays whether or not the router is currently connected to the Internet. If it is disconnected, click **Click to repair** to bring up the setup wizard, refer to page 27 for more information.

To bring up more details about your Internet connection, click on the **Internet** icon. Click **IPv4** or **IPv6** to see details of the IPv4 connection and IPv6 connection respectively.

Click **Release** to disconnect from the Internet. If you do this and wish to reconnect, click **Renew**.

To reconfigure the Internet settings, refer to page 39.





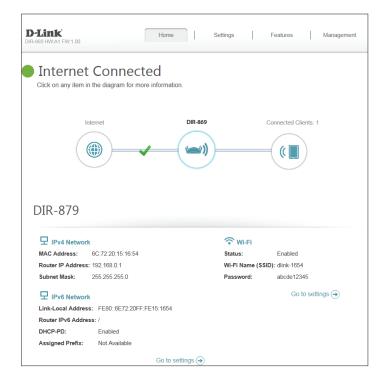
DIR-869

Click on the **DIR-869** icon to view details about the router and its wireless settings.

Here you can see the router's current Wi-Fi network name and password, as well as the router's MAC address, IPv4 address, and IPv6 address.

To reconfigure the network settings, either click **Go to settings** on the lower left, or click **Settings** (at the top of the page) and then **Network** on the menu that appears. For more information refer to page 69.

To reconfigure the wireless settings, either click **Go to settings**, on the lower right, or click **Settings** (at the top of the page) and then **Wireless** on the menu that appears. For more information refer to page 66.



Connected Clients

Click on the **Connected Clients** icon to view details about the router and its wireless settings.

On this page you can see all the clients currently connected to the router, and their IP addresses.

To edit each client's settings, click the pencil icon on the client you want to edit.

Name: Enter a custom name for this client.

Vendor: Displays the vendor of the device.

MAC Address: Displays the MAC address of the device.

IP Address: Displays the current IP address of this client.

Reserve IP: Enable to reserve this IP address for this client.

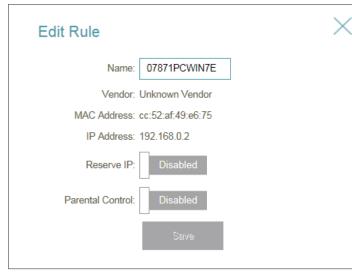
IP Address Specify an IP address for the DIR-869's DHCP server to assign.

(Reserved):

Parental Control: Allow or Block access to the router.

Click **Save** when you are done.





Settings Wizard

In the Settings menu on the bar on the top of the page, click **Wizard** to open the setup wizard. This is the same wizard that appears when you start the router for the first time. Refer to page 27 for details.

Internet

In the Settings menu on the bar on the top of the page, click **Internet** to see the Internet configuration options.

My Internet Choose your Internet connection type from the drop-down menu. You **Connection Is:** will be presented with the appropriate options for your connection type. Click **Advanced Settings...** to expand the list and see all of the options.

For **Dynamic IP (DHCP)** refer to page 40.

For **Static IP** refer to page 41.

For **PPPoE** refer to page 42.

For **PPTP** refer to page 44.

For **L2TP** refer to page 46.

For **DS-Lite** refer to page 48.

To configure an IPv6 connection, click the **IPv6** link. Refer to page 49.



Dynamic IP (DHCP)

Select **Dynamic IP (DHCP)** to obtain IP address information automatically from your Internet Service Provider (ISP). Select this option if your ISP does not specify an IP address to use.

Advanced Settings

Host Name: The host name is optional but may be required by some ISPs. Leave

it blank if you are not sure.

Primary DNS Enter the primary DNS server IP address assigned by your ISP. This

Server: address is usually obtained automatically from your ISP.

Secondary DNS Enter the secondary DNS server IP address assigned by your ISP. This

Server: address is usually obtained automatically from your ISP.

MTU: Maximum Transmission Unit - you may need to change the MTU for

optimal performance with your ISP.

MAC Address The default MAC address is set to the Internet port's physical interface

Clone: MAC address on the router. You can use the drop-down menu to replace the Internet port's MAC address with the MAC address of a

connected client.

Click **Save** when you are done.





Static IP

Select **Static IP** if your IP information is provided by your Internet Service Provider (ISP).

IP Address: Enter the IP address provided by your ISP.

Subnet Mask: Enter the subnet mask provided by your ISP.

Default Gateway: Enter the default gateway address provided by your ISP.

Primary DNS Enter the primary DNS server IP address assigned by your ISP.

Server:

Advanced Settings

Secondary DNS Enter the secondary DNS server IP address assigned by your ISP. Server:

> MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP.

MAC Address The default MAC address is set to the Internet port's physical interface Clone: MAC address on the router. You can use the drop-down menu to replace the Internet port's MAC address with the MAC address of a connected client.

Click **Save** when you are done.





PPPoE

Select **PPPoE** if your Internet connection requires you to enter a username and password. This information is provided by your Internet Service Provider (ISP).

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

Reconnect Mode: Select either **Always-on**, **On-Demand**, or **Manual**.

Maximum Idle Enter a maximum idle time during which the Internet connection

Time: is maintained during inactivity. To disable this feature, enable Auto-

reconnect.

Advanced Settings

Address Mode: Select Static IP if your ISP assigned you the IP address, subnet mask,

gateway, and DNS server addresses. In most cases, select **Dynamic IP**.

Dynamic IP

IP Address: Enter the IP address provided by your ISP (Static IP only).

Service Name: Enter the ISP service name (optional).

Primary DNS Enter the primary DNS server IP address assigned by your ISP.

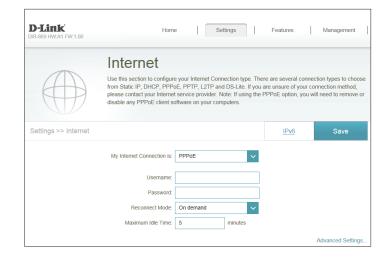
Server:

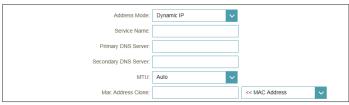
Secondary DNS Enter the secondary DNS server IP address assigned by your ISP.

Server:

MTU: Maximum Transmission Unit - you may need to change the MTU for

optimal performance with your ISP. The recommended setting is Auto.





MAC Address The default MAC address is set to the Internet port's physical interface Clone: MAC address on the router. You can use the drop-down menu to replace the Internet port's MAC address with the MAC address of a

connected client.

Static IP

IP Address: Enter the IP address provided by your ISP (Static IP only).

Service Name: Enter the ISP service name (optional).

Primary DNS Enter the primary DNS server IP address assigned by your ISP.

Server:

Secondary DNS Enter the secondary DNS server IP address assigned by your ISP.

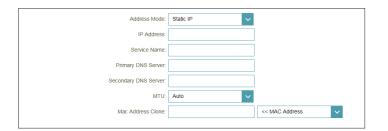
Server:

MTU: Maximum Transmission Unit - you may need to change the MTU for

optimal performance with your ISP.

MAC Address The default MAC address is set to the Internet port's physical interface Clone: MAC address on the router. You can use the drop-down menu to replace the Internet port's MAC address with the MAC address of a connected client.

Click **Save** when you are done.



PPTP

Choose PPTP (Point-to-Point-Tunneling Protocol) if your Internet Service Provider (ISP) uses a PPTP connection. Your ISP will provide you with a username and password.

PPTP Server IP Enter the PPTP server IP address provided by your ISP.

Address:

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

Reconnect Mode: Select either **Always-on**, **On-Demand**, or **Manual**.

Maximum Idle Enter a maximum idle time during which the Internet connection

Time: is maintained during inactivity. To disable this feature, enable Auto-

reconnect.

Advanced Settings

Address Mode: Select Static IP if your ISP assigned you the IP address, subnet mask,

gateway, and DNS server addresses. In most cases, select **Dynamic IP**.

Dynamic IP

Primary DNS Enter the primary DNS server IP address assigned by your ISP.

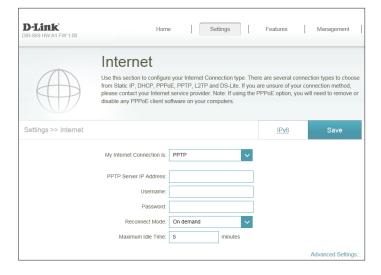
Server:

Secondary DNS Enter the secondary DNS server IP address assigned by your ISP.

Server:

MTU: Maximum Transmission Unit - you may need to change the MTU for

 $optimal\ performance\ with\ your\ ISP. The\ recommended\ setting\ is\ \textbf{Auto}.$





Static IP

PPTP IP Address: Enter the IP address provided by your ISP (Static IP only).

PPTP Subnet Enter the subnet mask provided by your ISP (Static IP only).

Mask:

PPTP Gateway IP Enter the gateway IP address provided by your ISP (Static IP only).

Address:

Primary DNS Enter the primary DNS server IP address assigned by your ISP.

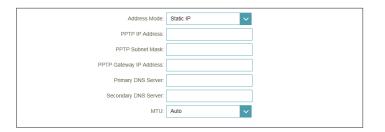
Server:

Secondary DNS Enter the secondary DNS server IP address assigned by your ISP.

Server:

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP.

Click Save when you are done.



L2TP

Choose L2TP (Layer 2 Tunneling Protocol) if your Internet Service Provider (ISP) uses a L2TP connection. Your ISP will provide you with a username and password.

L2TP Server IP Enter the L2TP server IP address provided by your ISP. Address:

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

Reconnect Mode: Select either **Always-on**, **On-Demand**, or **Manual**.

Maximum Idle Enter a maximum idle time during which the Internet connection

Time: is maintained during inactivity. To disable this feature, enable Auto-

reconnect.

Advanced Settings

Address Mode: Select Static IP if your ISP assigned you the IP address, subnet mask,

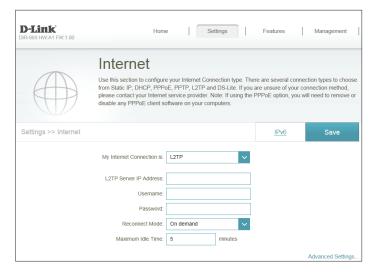
gateway, and DNS server addresses. In most cases, select **Dynamic IP**.

Dynamic IP

Primary DNS Enter the primary DNS server IP address assigned by your ISP. **Server:**

Secondary DNS Enter the secondary DNS server IP address assigned by your ISP. **Server:**

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP. The recommended setting is **Auto**.





Static IP

L2TP IP Address: Enter the IP address provided by your ISP (Static IP only).

L2TP Subnet Enter the subnet mask provided by your ISP (Static IP only).

Mask:

L2TP Gateway IP Enter the gateway IP address provided by your ISP (Static IP only).

Address:

Primary DNS Enter the primary DNS server IP address assigned by your ISP.

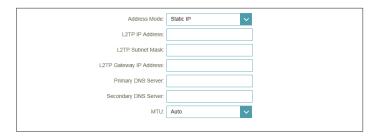
Server:

Secondary DNS Enter the secondary DNS server IP address assigned by your ISP.

Server:

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP.

Click **Save** when you are done.



DS-Lite

DS-Lite is an IPv6 connection type. After selecting DS-Lite, the following parameters will be available for configuration:

Advanced Settings

DS-Lite Select **DS-Lite DHCPv6** to let the router allocate the AFTR IPv6 **Configuration:** address automatically. Select **Manual Configuration** to enter the

AFTR IPv6 address manually.

DS-Lite DHCPv6

B4 IPv6 Address: Enter the B4 IPv4 address value used here.

WAN IPv6 Once connected, the WAN IPv6 address will be displayed here.

Address:

IPv6 WAN Default Once connected, the IPv6 WAN default gateway address will be

Gateway: displayed here.

Manual

AFTR IPv6 Enter the AFTR IPv6 address used here.

Address:

B4 IPv6 Address: Enter the B4 IPv4 address value used here.

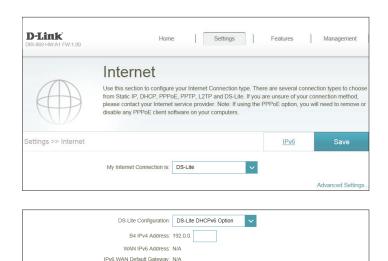
WAN IPv6 Once connected, the WAN IPv6 address will be displayed here.

Address:

IPv6 WAN Default Once connected, the IPv6 WAN default gateway address will be

Gateway: displayed here.

Click Save when you are done.





IPv6

To configure an IPv6 connection, click the IPv6 link. To return to the IPv4 settings, click **IPv4**.

My Internet Choose your IPv6 connection type from the drop-down menu. You **Connection Is:** will be presented with the appropriate options for your connection type. Click **Advanced Settings...** to expand the list and see all of the options.

For **Auto Detection** refer to page 50.

For **Static IPv6** refer to page 52.

For **Auto Configuration (SLAAC/DHCPv6)** refer to page 54.

For **PPPoE** refer to page 56.

For **IPv6** in **IPv4 Tunnel** refer to page 59.

For **6 to 4** refer to page 61.

For **6rd** refer to page 63.

For **Local Connectivity Only** refer to page 65.



Auto Detection

This is a connection method where the ISP assigns your IPv6 address when your router requests one from the ISP's server. Some ISPs require you to make some settings on your side before your router can connect to the IPv6 Internet.

IPv6 DNS Settings

DNS Type: Select either **Obtain DNS server address automatically** or **Use the**

following DNS address.

If **Use the following DNS address** is selected:

Primary DNS If you selected Use the following DNS address above, enter the

Server: primary DNS server address.

Secondary DNS If you selected Use the following DNS address above, enter the

Server: secondary DNS server address.

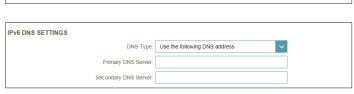
LAN IPv6 Address Settings

LAN IPv6 Address: Displays the router's LAN IPv6 Address link-local address.

LAN IPv6 Link- Displays the router's LAN link-local address.

Local Address:







Advanced Settings - Address Autoconfiguration Settings

Enable Automatic Enable or disable the Automatic IPv6 Address Assignment feature. IPv6 Address

Assignment:

Enable Automatic Enable or disable DHCP-PD for other IPv6 routers connected to the **DHCP-PD in LAN**: LAN interface.

Note: This feature requires a smaller subnet prefix than /64 (i.e. allowing for a larger address allocation), such as /63. Contact your ISP for more information.

Autoconfiguration Select SLAAC+RDNSS, SLAAC+Stateless DHCP, or Stateful DHCPv6.

Type:

If you selected **Stateful DHCPv6** as the Autoconfiguration Type:

IPv6 Address Enter the starting IPv6 address for the DHCP server's IPv6 assignment. **Range (Start):**

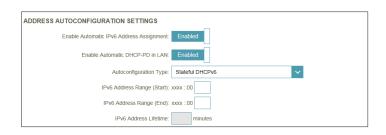
IPv6 Address Enter the ending IPv6 address for the DHCP server's IPv6 assignment. Range (End):

IPv6 Enter the IPv6 address lifetime (in minutes).

Advertisement Lifetime:

Click **Save** when you are done.





Static IPv6

Select **Static IP** if your IPv6 information is provided by your Internet Service Provider (ISP).

Use Link-Local Enable or disable link-local address use. Address:

Default Gateway: Enter the default gateway for your IPv6 connection.

Primary DNS Enter the primary DNS server address.

Server:

Secondary DNS Enter the secondary DNS server address.

Server:

If **Use Link-Local Address** is disabled these additional parameters are available for configuration:

IPv6 Address: Enter the address supplied by your ISP.

Subnet Prefix Enter the subnet prefix length supplied by your ISP.

Length:

LAN IPv6 Address Settings

LAN IPv6 Address: Enter the LAN (local) IPv6 address for the router.

LAN IPv6 Link- Displays the router's LAN link-local address.

Local Address:







Advanced Settings - Address Autoconfiguration Settings

Enable Automatic Enable or disable the Automatic IPv6 Address Assignment feature. IPv6 Address

Assignment:

Autoconfiguration Select SLAAC+RDNSS, SLAAC+Stateless DHCP, or Stateful DHCPv6.

Type:

If you selected **Stateful DHCPv6** as the Autoconfiguration Type:

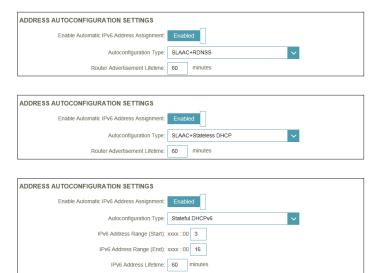
IPv6 Address Enter the starting IPv6 address for the DHCP server's IPv6 assignment. Range (Start):

IPv6 Address Enter the ending IPv6 address for the DHCP server's IPv6 assignment. Range (End):

IPv6 Enter the IPv6 address lifetime (in minutes).

Advertisement Lifetime:

Click **Save** when you are done.



Auto Configuration (SLAAC/DHCPv6)

This is a connection method where the ISP assigns your IPv6 address when your router requests one from the ISP's server. Some ISPs require you to make some settings on your side before your router can connect to the IPv6 Internet.

IPv6 DNS Settings

DNS Type: Select either **Obtain DNS server address automatically** or **Use the**

following DNS address.

If **Use the following DNS address** is selected:

Primary DNS Enter the primary DNS server address.

Server:

Secondary DNS Enter the secondary DNS server address.

Server:

LAN IPv6 Address Settings

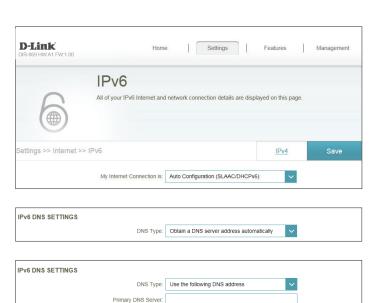
Enable DHCP-PD: Enable or disable prefix delegation services.

LAN IPv6 Address: If you disabled DHCP-PD, enter the LAN (local) IPv6 address for the

router.

LAN IPv6 Link- Displays the router's LAN link-local address.

Local Address:





Secondary DNS Serve



Advanced Settings - Address Autoconfiguration Settings

Enable Automatic Enable or disable the Automatic IPv6 Address Assignment feature. **IPv6 Address Assignment:**

If **DHCP-PD** is enabled in LAN IPv6 Address Settings:

Enable Automatic Enable or disable DHCP-PD for other IPv6 routers connected to the DHCP-PD in LAN: LAN interface. *Note:* This feature requires a smaller subnet prefix than

/64 (i.e. allowing for a larger address allocation), such as /63. Contact your ISP for more information.

Autoconfiguration Select SLAAC+RDNSS, SLAAC+Stateless DHCP, or Stateful DHCPv6.

Type:

If you selected **Stateful DHCPv6** as the Autoconfiguration Type:

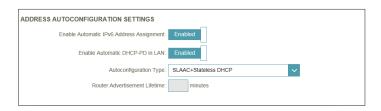
IPv6 Address Enter the starting IPv6 address for the DHCP server's IPv6 assignment. **Range (Start):**

IPv6 Address Enter the ending IPv6 address for the DHCP server's IPv6 assignment. Range (End):

IPv6 Enter the IPv6 address lifetime (in minutes).

Advertisement Lifetime:

Click Save when you are done.







PPPoE

Select **PPPoE** if your Internet connection requires you to enter a username and password. This information is provided by your Internet Service Provider (ISP).

PPPoE Session: Choose Share with IPv4 to re-use your IPv4 PPPoE username and

password, or Create a new session.

Username: Enter the username provided by your ISP. (Create a new session only)

Password: Enter the password provided by your ISP. (Create a new session only)

Address Mode: Select Static IP if your ISP assigned you an IP address. In most cases,

select Dynamic IP.

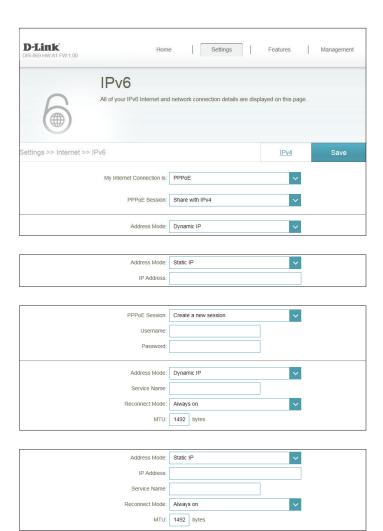
IP Address: Enter the IP address provided by your ISP. (Static IP only)

Service Name: Enter the ISP service name (optional).

Reconnect Mode: Select either **Always-on** or **Manual**.

MTU: Maximum Transmission Unit - you may need to change the MTU for

optimal performance with your ISP.



IPv6 DNS Settings

DNS Type: Select either Obtain DNS server address automatically or Use the

following DNS address.

If **Use the following DNS address** is selected:

Primary DNS Enter the primary DNS server address.

Server:

Secondary DNS Enter the secondary DNS server address.

Server:

LAN IPv6 Address Settings

Enable DHCP-PD: Enable or disable prefix delegation services. This option is only

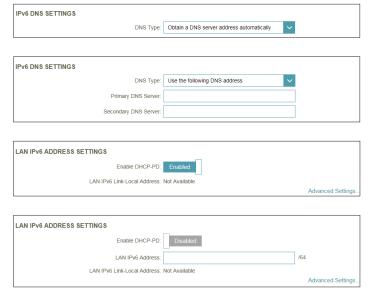
available if you selected **Dynamic IP** for address mode.

LAN IPv6 Address: If DHCP-PD disabled or static address mode is selected, enter the LAN

(local) IPv6 address for the router.

LAN IPv6 Link- Displays the router's LAN link-local address.

Local Address:



Advanced Settings - Address Autoconfiguration Settings

Enable Automatic Enable or disable the Automatic IPv6 Address Assignment feature. **IPv6 Address Assignment:**

If **DHCP-PD** is available and enabled in LAN IPv6 Address Settings:

Enable Automatic Enable or disable DHCP-PD for other IPv6 routers connected to the **DHCP-PD in LAN:** LAN interface. *Note:* This feature requires a smaller subnet prefix than /64 (i.e. allowing for a larger address allocation), such as /63. Contact your ISP for more information.

Type:

Autoconfiguration Select **SLAAC+RDNSS**, **SLAAC+Stateless DHCP**, or **Stateful DHCPv6**.

If you selected **Stateful DHCPv6** as the Autoconfiguration Type:

IPv6 Address Enter the starting IPv6 address for the DHCP server's IPv6 assignment. Range (Start):

IPv6 Address Enter the ending IPv6 address for the DHCP server's IPv6 assignment. Range (End):

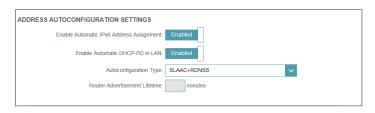
Advertisement

Lifetime:

IPv6 Enter the IPv6 address lifetime (in minutes).

Click Save when you are done.

ADDRESS AUTOCONFIGURATION SETTINGS Enable Automatic IPv6 Address Assignment Enable Automatic DHCP-PD in LAN: Router Advertisement Lifetime:





IPv6 in IPv4 Tunnel

The user can configure the IPv6 connection to run in IPv4 Tunnel mode. IPv6 over IPv4 tunnelling encapsulates IPv6 packets in IPv4 packets so that IPv6 packets can be sent over an IPv4 infrastructure.

Remote IPv4
Address:

Remote IPv6
Address:

Enter the IPv6 remote address you will use.
Address:

Local IPv4
Address:

Local IPv6
Address:

Local IPv6
Address:

Enter the IPv6 local address you will use.
Address:

Enter the IPv6 local address you will use.
Address:

Enter the IPv6 local address you will use.
Address:

Enter the subnet prefix length supplied by your ISP.
Length:

IPv6 DNS Settings

DNS Type: Select either **Obtain DNS server address automatically** or **Use the following DNS address**.

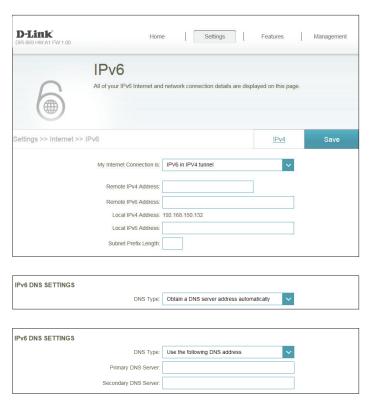
If **Use the following DNS address** is selected:

Primary DNS Enter the primary DNS server address.

Server:

Secondary DNS Enter the secondary DNS server address.

Server:



LAN IPv6 Address Settings

Enable DHCP-PD: Enable or disable prefix delegation services.

LAN IPv6 Address: If you disabled DHCP-PD, enter the LAN (local) IPv6 address for the

router.

LAN IPv6 Link- Displays the router's LAN link-local address.

Local Address:

Advanced Settings - Address Autoconfiguration Settings

Enable Automatic Enable or disable the Automatic IPv6 Address Assignment feature.

IPv6 Address Assignment:

Autoconfiguration Select **SLAAC+RDNSS**, **SLAAC+Stateless DHCP**, or **Stateful DHCPv6**.

Type:

If you selected **Stateful DHCPv6** as the Autoconfiguration Type:

IPv6 Address Enter the starting IPv6 address for the DHCP server's IPv6 assignment.

Range (Start):

IPv6 Address Enter the ending IPv6 address for the DHCP server's IPv6 assignment.

Range (End):

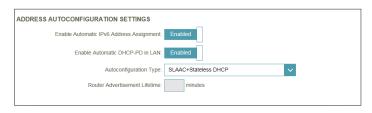
IPv6 Enter the IPv6 address lifetime (in minutes).

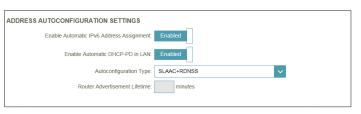
Advertisement Lifetime:

Click **Save** when you are done.











6to4

In this section the user can configure the IPv6 6 to 4 connection settings. 6to4 is an IPv6 address assignment and automatic tunneling technology that is used to provide unicast IPv6 connectivity between IPv6 sites and hosts across the IPv4 Internet.

6to4 Address: Displays the 6 to 4 address.

6to4 Relay: Enter the 6 to 4 relay supplied by your ISP.

Primary DNS Enter the primary DNS server address.

Server:

Secondary DNS Enter the secondary DNS server address.

Server:

LAN IPv6 Address Settings

LAN IPv6 Address: Enter the LAN (local) IPv6 address for the router.

LAN IPv6 Link- Displays the router's LAN link-local address.

Local Address:



Advanced Settings - Address Autoconfiguration Settings

Enable Automatic Enable or disable the Automatic IPv6 Address Assignment feature. **IPv6 Address Assignment:**

Autoconfiguration Select SLAAC+RDNSS, SLAAC+Stateless DHCP, or Stateful DHCPv6.

Type:

If you selected **Stateful DHCPv6** as the Autoconfiguration Type:

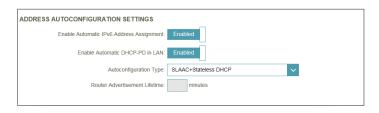
IPv6 Address Enter the starting IPv6 address for the DHCP server's IPv6 assignment. **Range (Start):**

IPv6 Address Enter the ending IPv6 address for the DHCP server's IPv6 assignment. Range (End):

IPv6 Enter the IPv6 address lifetime (in minutes). Advertisement

Click **Save** when you are done.

Lifetime:







6rd

In this section the user can configure the IPv6 6rd connection settings.

Assign IPv6 Prefix: Currently unsupported.

Primary DNS Enter the primary DNS server address.

Server:

Secondary DNS Enter the secondary DNS server address.

Server:

6rd Manual Configuration

Enable Hub and Enable if you want to minimize the number of routes to the destination

Spoke Mode: by using a hub and spoke method of networking.

6rd Configuration: Choose the 6rd DHCPv4 Option to automatically discover and

populate the data values, or Manual Configuration to enter the

settings yourself.

If you selected Manual configuration

6rd IPv6 Prefix: Enter the 6rd IPv6 prefix and mask length supplied by your ISP.

WAN IPv4 Address Displays the router's IPv4 address.

6rd Border Relay Enter the 6rd border relay IPv4 address settings supplied by your ISP.

IPv4 Address:

LAN IPv6 Address Settings

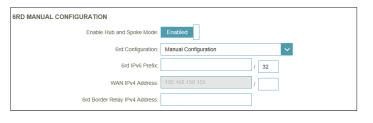
LAN IPv6 Address: Displays the router's LAN IPv6 Address link-local address.

LAN IPv6 Link- Displays the router's LAN link-local address.

Local Address:









Advanced Settings - Address Autoconfiguration Settings

Enable Automatic Enable or disable the Automatic IPv6 Address Assignment feature. **IPv6 Address Assignment:**

Autoconfiguration Select SLAAC+RDNSS, SLAAC+Stateless DHCP, or Stateful DHCPv6.

Type:

If you selected **Stateful DHCPv6** as the Autoconfiguration Type:

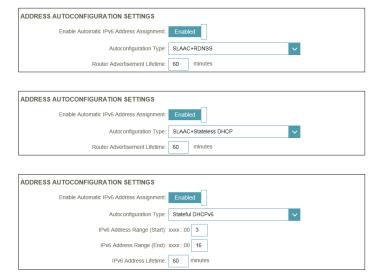
IPv6 Address Enter the starting IPv6 address for the DHCP server's IPv6 assignment. Range (Start):

IPv6 Address Enter the ending IPv6 address for the DHCP server's IPv6 assignment. Range (End):

IPv6 Enter the IPv6 address lifetime (in minutes). Advertisement

Click **Save** when you are done.

Lifetime:



Local Connectivity Only

Local Connectivity Only allows you to set up an IPv6 connection that will not connect to the Internet.

Advanced Settings

IPv6 ULA Settings

Enable ULA: Click here to enable Unique Local IPv6 Unicast Addresses settings.

If you selected **Enable ULA** and **Disabled Default ULA Prefix**:

ULA Prefix: Enter your own ULA prefix.

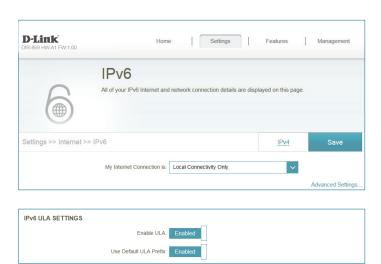
Current IPv6 ULA Settings

Current ULA Displays the current ULA prefix.

Prefix:

LAN IPv6 ULA: Displays the LAN's IPv6 ULA.

Click **Save** when you are done.







Wireless

From this page you can configure your wireless network settings.

2.4GHz / 5GHz

Status: Enable or disable the 2.4 GHz / 5 GHz wireless network.

Wi-Fi Name (SSID): Create a name for your wireless network using up to 32 characters.

Password: Create a password to use for wireless security.

Advanced Settings

Security Mode: Choose None, WEP, or WPA/WPA2-(Personal) (recommended).

802.11 Mode Select the desired wireless networking standards to use.

(2.4 GHz): The available options for the 2.4 GHz wireless network are Mixed

802.11b/g/n, Mixed 802.11g/n, 802.11n only.

802.11 Mode Select the desired wireless networking standards to use.

(5 GHz): The available options for the 5 GHz GHz wireless network are Mixed

802.11a/n/ac, Mixed 802.11n/ac, 802.11ac only, Mixed 802.11a/n,

Mixed 802.11n only, or 802.11a only.

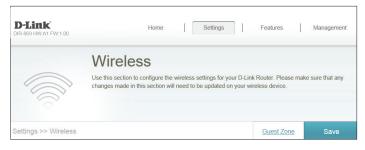
Wi-Fi Channel: Select the desired channel. The default is **Auto** (recommended).

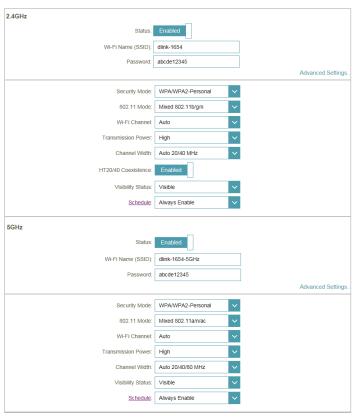
Transmission Select the desired wireless transmission power.

Power:

Channel Width Select Auto 20/40 if you are using both 802.11n and non-802.11n

(2.4 GHz): devices, or select 20 MHz if you are not using any 802.11n devices.





Channel Width Select **Auto 20/40/80** if you are using 802.11ac, 802.11n, and 802.11a (5 GHz): devices, select Auto 20/40 if you are using 802.11n and 802.11a devices, or select **20 MHz** if you are only using 802.11a devices.

HT20/40 Enable or disable HT20/40 Coexistence.

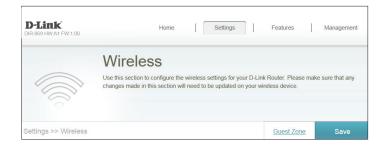
Coexistence:

Visibility Status: The default setting is Visible. Select Invisible if you do not want to

broadcast the SSID of your wireless network.

Schedule: Use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to Always Enable, or you can create your own schedules in the Schedules section. Refer to page 84 for more information.

Click **Save** when you are done.





Guest Zone

The guest zone feature will allow you to create temporary zones that can be used by guests to access the Internet. These zones will be separate from your main wireless network. You may configure different zones for the 2.4 GHz and 5 GHz wireless bands.

In the Settings menu on the bar on the top of the page, click **Wireless**, then click the **Guest Zone** link. Click **Advanced Settings...** to expand the list and see all of the options.

2.4GHz / 5GHz

Status: Enable or disable the 2.4 GHz / 5 GHz wireless network.

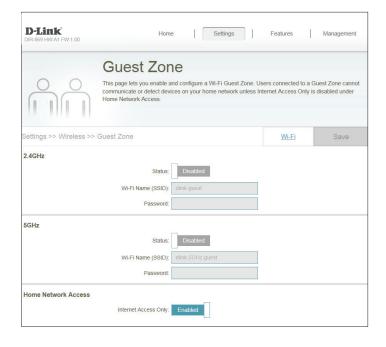
Wi-Fi Name (SSID): Create a name for your wireless network using up to 32 characters.

Password: Create a password to use for wireless security.

Home Network Access

Internet Access Enabling this option will confine connectivity to the Internet,
Only: disallowing guests from accessing other local network devices.

Click **Save** when you are done.



Network

This section will allow you to change the local network settings of the router and to configure the DHCP settings. In the Settings menu on the bar on the top of the page, click **Network**. Click **Advanced Settings...** to expand the list and see all of the options.

Network Settings

LAN IP Address: Enter the IP address of the router. The default IP address is 192.168.0.1.

If you change the IP address, once you click **Save**, you will need to enter the new IP address in your browser to get back into the

configuration utility

Subnet Mask: Enter the subnet mask of the router. The default subnet mask is

255.255.255.0.

Management The default address to access the router's configuration is

Link: http://dlinkrouter.local./ Here, you can replace dlinkrouter with a

name of your choice.

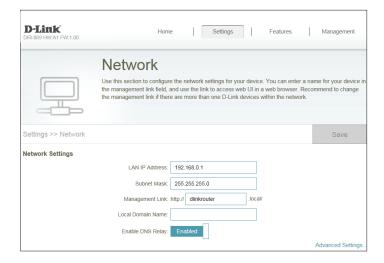
Local Domain Enter the domain name (optional).

Name:

Enable DNS Relay: Disable to transfer the DNS server information from your ISP to your

computers. If enabled, your computers will use the router for a DNS

server.



Advanced Settings - DHCP Server

Status: Enable or disable the DHCP server.

Range: assignment.

Note: If you statically (manually) assign IP addresses to your computers or devices, make sure the IP addresses are outside of this range or you

may have an IP conflict.

DHCP Lease Time: Enter the length of time for the IP address lease in minutes.

Always Broadcast: Enable this feature to broadcast your networks DHCP server to LAN/

WLAN clients.

Advanced Settings

WAN Port Speed: You may set the port speed of the Internet port to 10 Mbps, 100 Mbps,

1000 Mbps, or Auto (recommended).

UPnP: Enable or disable Universal Plug and Play (UPnP). UPnP provides

compatibility with networking equipment, software and peripherals.

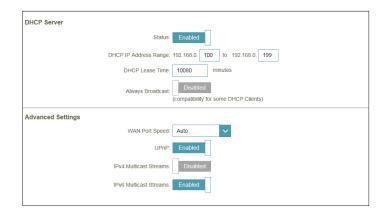
IPv4 Multicast Enable to allow IPv4 multicast traffic to pass through the router from

Stream: the Internet.

IPv6 Multicast Enable to allow IPv6 multicast traffic to pass through the router from

Stream: the Internet.

Click **Save** when you are done.



Features QoS Engine

This section will allow you to prioritize particular clients over others, so that those clients receive higher bandwidth. For example, if one client is streaming a movie and another is downloading a non-urgent file, you might wish to assign the former device a higher priority than the latter so that the movie streaming is not disrupted by the traffic of the other devices on the network.

In the Features menu on the bar on the top of the page, click **QoS Engine**.

Under All Devices, you will see device cards representing each connected client. If some are off-screen, you can use the < and > buttons to scroll through the cards.

A maximum of **one** device can be assigned **Highest** priority.

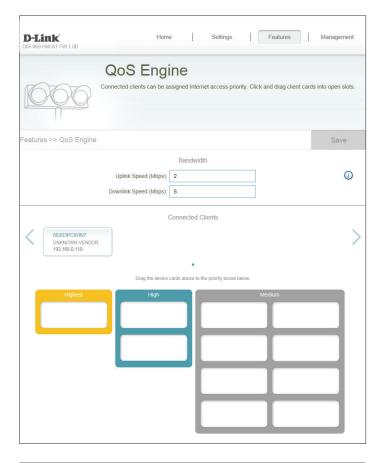
A maximum of **two** devices can be assigned **High** priority.

A maximum of **eight** devices can be assigned **Medium** priority.

If no devices are explicitly assigned a priority, they will all be treated with equal priority. If some devices are not assigned a priority and others are, the unassigned devices will be treated with the lowest priority.

To assign a priority level to a device, drag the device card from the All Devices list over an empty slot and release the mouse button. The card will remain in the slot. If you want to remove a priority assignment from a device and return it to the All Devices list, click the cross icon in the top right of the device card.

Click **Save** when you are done.



	Bandwidth
Uplink Speed (Mbps):	2
Downlink Speed (Mbps):	8

Firewall Settings

The router's firewall protects your network from malicious attacks over the Internet. In the Features menu on the bar on the top of the page, click **Firewall Settings**. Click **Advanced Settings...** to expand the list and see all of the options.

Enable DMZ: Enable or disable Demilitarized Zone (DMZ). This completely exposes

the client to threats over the Internet, and is not recommended in

ordinary situations.

DMZ IP Address: If you enabled DMZ, enter the IP address of the client you wish to

expose, or use the drop-down menu to quickly select it.

Enable SPI IPv4: Enabling Stateful Packet Inspection (SPI) helps to prevent cyber

attacks by validating that the traffic passing through the session

conforms to the protocol.

Enable Anti-Spoof Enable this feature to protect your network from certain kinds of

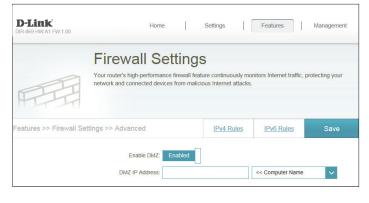
Checking: "spoofing" attacks.

IPv6 Simple Enable or disable IPv6 simple security.

Security:

IPv6 Ingress Enable or disable IPv6 ingress filtering.

Filtering:





Advanced Settings - Application Level Gateway (ALG) Configuration

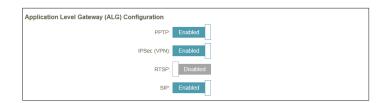
PPTP: Allows multiple machines on the LAN to connect to their corporate network using the PPTP protocol.

IPSec (VPN): Allows multiple VPN clients to connect to their corporate network using IPSec. Some VPN clients support traversal of IPSec through NAT. This Application Level Gateway (ALG) may interfere with the operation of such VPN clients. If you are having trouble connecting with your corporate network, try turning this ALG off. Please check with the system administrator of your corporate network whether your VPN client supports NAT traversal.

RTSP: Allows applications that uses Real Time Streaming Protocol (RTSP) to receive streaming media from the Internet.

SIP: Allows devices and applications using VoIP (Voice over IP) to communicate across NAT. Some VoIP applications and devices have the ability to discover NAT devices and work around them. This ALG may interfere with the operation of such devices. If you are having trouble making VoIP calls, try turning this ALG off.

Click **Save** when you are done.



IPv4/IPv6 Rules

The IPv4/IPv6 Rules section is an advanced option that lets you configure what kind of traffic is allowed to pass through the network. To configure the IPv4 rules, from the Firewall Settings page click **IPv4 Rules**. To configure IPv6 rules, from the Firewall Settings page click **IPv6 Rules**. To return to the main Firewall Settings page, click **Security Check**.

To begin, use the drop-down menu to select whether you want to **ALLOW** or **DENY** the rules you create. You can also choose to turn filtering **OFF**.

If you wish to remove a rule, click on its trash can icon in the Delete column. If you wish to edit a rule, click on its pencil icon in the Edit column. If you wish to create a new rule, click the **Add Rules** button. Click **Save** when you are done. If you edit or create a rule, the following options will appear:

Name: Enter a name for the rule.

Source IP Address Enter the source IP address range that the rule will apply to, and using

Range: the drop-down menu, specify whether it is a WAN or LAN IP address.

Destination IP Enter the destination IP address range that the rule will apply to, and **Address Range:** using the drop-down menu, specify whether it is a **WAN** or **LAN** IP

address.

Port Range: Select the protocol of the traffic to allow or deny (**Any**, **TCP**, or **UDP**)

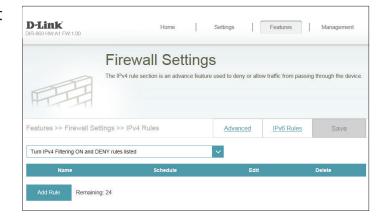
and then enter the range of ports that the rule will apply to.

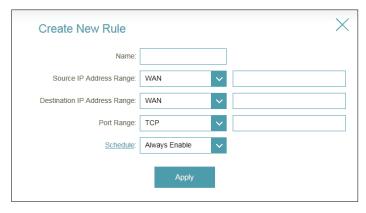
Schedule: Use the drop-down menu to select the time schedule that the rule

will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer

to page 87 for more information.

Click **Apply** when you are done.





Port Forwarding

Port forwarding allows you to specify a port or range of ports to open for specific devices on the network. This might be necessary for certain applications to connect through the router. In the Features menu on the bar on the top of the page, click **Port Forwarding**.

If you wish to remove a rule, click on its trash can icon in the Delete column. If you wish to edit a rule, click on its pencil icon in the Edit column. If you wish to create a new rule, click the **Add Rules** button. Click **Save** when you are done. If you edit or create a rule, the following options will appear:

Name: Enter a name for the rule.

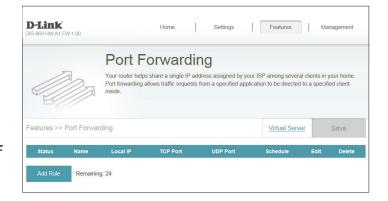
Local IP: Enter the IP address of the computer on your local network that you want to allow the incoming service to. Alternatively, select the device from the drop-down menu.

TCP Port: Enter the TCP ports that you want to open. You can enter a single port or a range of ports. Separate ports with a comma (for example: 24,1009,3000-4000).

UDP Port: Enter the UDP ports that you want to open. You can enter a single port or a range of ports. Separate ports with a comma (for example: 24,1009,3000-4000).

Schedule: Use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to page 83 for more information.

Click **Apply** when you are done.





Virtual Server

The virtual server allows you to specify a single public port on your router for redirection to an internal LAN IP Address and Private LAN port. To configure the virtual server, from the Port Forwarding page click **Virtual Server**. To return to the main Port Forwarding page, click **Port Forwarding**.

If you wish to remove a rule, click on its trashcan icon in the Delete column. If you wish to edit a rule, click on its pencil icon in the Edit column. If you wish to create a new rule, click the **Add Rules** button. Click **Save** when you are done. If you edit or create a rule, the following options will appear:

Name: Enter a name for the rule. Alternatively, select the protocol/Application from the drop-down menu.

Local IP: Enter the IP address of the computer on your local network that you want to allow the incoming service to. Alternatively, select the device from the drop-down menu.

Protocol: Select the protocol of the traffic to allow or deny (**TCP**, **UDP**, **Both**,

or **Other**).

Protocol Number: If you entered **Other** above, enter the protocol number.

External Port: Enter the public port you want to open.

Internal Port: Enter the private port you want to open.

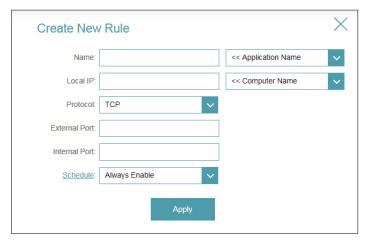
Schedule: Use the drop-down menu to select the time schedule that the rule

will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer

to page 83 for more information.

Click **Apply** when you are done.





Website Filter

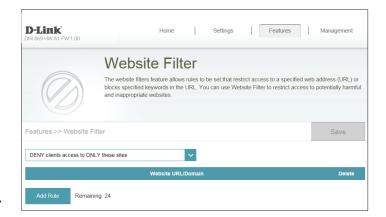
The website filter settings allow you to block access to certain web sites. You can either create a list of sites to block, or create a list of sites to allow (with all other sites being blocked).

In the Features menu on the bar on the top of the page, click **Website Filter**.

If you want to create a list of sites to block, select **DENY computers access to ONLY these sites** from the drop-down menu. All other sites will be accessible. If you want to specify a list of sites to allow, select **ALLOW computers access to ONLY these sites** from the drop-down menu. All other sites will be blocked.

You may specify a maximum of fifteen web sites. To add a new site to the list, click **Create New Rule**. Next, under Website URL/Domain enter the URL or domain. If you wish to remove a rule, click on its trashcan icon in the Delete column. If you wish to edit a rule, simply replace the URL or domain.

Click **Save** when you are done.



Static Routes

The Static Routes section allows you to define custom routes to control how data traffic is moved around your network.

In the Features menu on the bar on the top of the page, click **Static Routes**. To configure IPv6 rules, click **IPv6** and refer to page 79. To return to the main IPv4 static routes page, click **IPv4**.

If you wish to remove a rule, click on its trash can icon in the Delete column. If you wish to edit a rule, click on its pencil icon in the Edit column. If you wish to create a new rule, click the **Add Rules** button. Click **Save** when you are done. If you edit or create a rule, the following options will appear:

Name: Enter a name for the rule.

Destination Enter the IP address of packets that will take this route.

Network:

Mask: Enter the netmask of the route.

Gateway: Enter your next hop gateway to be taken if this route is used.

Metric: The route metric is a value from 1 to 16 that indicates the cost of using

this route. A value 1 is the lowest cost and 15 is the highest cost.

Interface: Select the interface that the IP packet must use to transit out of the

router when this route is used.

Click **Apply** when you are done.





IPv6

To configure IPv6 rules, on the Static Routes page click **IPv6**. To return to the main IPv4 static routes page, click **IPv4**.

If you wish to remove a rule, click on its trash can icon in the Delete column. If you wish to edit a rule, click on its pencil icon in the Edit column. If you wish to create a new rule, click the **Add Rules** button. Click **Save** when you are done. If you edit or create a rule, the following options will appear:

Name: Enter a name for the rule.

DestNetwork: This is the IP address of the router used to reach the specified

destination.

PrefixLen: Enter the IPv6 address prefix length of the packets that will take this

route.

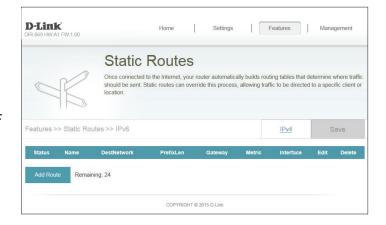
Gateway: Enter your next hop gateway to be taken if this route is used.

Metric: Enter the metric value for this rule here.

Interface: Select the interface that the IP packet must use to transit out of the

router when this route is used.

Click **Apply** when you are done.





Dynamic DNS

Most Internet Service Providers (ISPs) assign dynamic (changing) IP addresses. Using a dynamic DNS service provider, people can enter your domain name in their web browser to connect to your server no matter what your IP address is.

In the Features menu on the bar on the top of the page, click **Dynamic DNS**.

Enable Dynamic Enabling dynamic DNS will reveal further configuration options. DNS:

Status: Displays the current dynamic DNS connection status.

Server Address: Enter the address of your dynamic DNS server, or select one from the

drop-down menu.

Host Name: Enter the host name that you registered with your dynamic DNS

service provider.

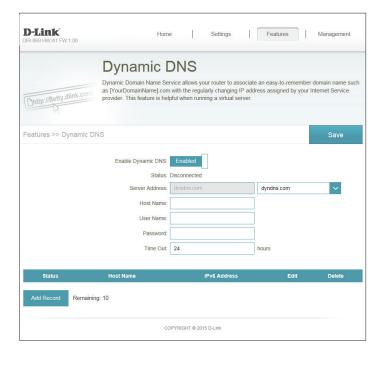
User Name: Enter your dynamic DNS username.

Password: Enter your dynamic DNS password.

Time Out: Enter a timeout time (in hours).

Click **Save** when you are done.

At the bottom of the page are the IPv6 host settings. To configure an IPv6 dynamic DNS host, refer to page 81.



IPv6 Host

The IPv6 host settings are found at the bottom of the Dynamic DNS page.

If you wish to remove a rule, click on its trash can icon in the Delete column. If you wish to edit a rule, click on its pencil icon in the Edit column. If you wish to create a new rule, click the **Add Rules** button. Click **Save** when you are done. If you edit or create a rule, the following options will appear:

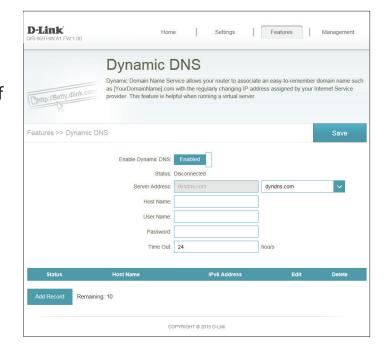
Host Name: Enter the host name that you registered with your dynamic DNS

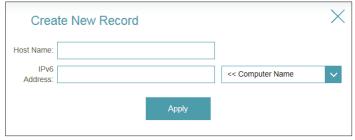
service provider.

IPv6 Address: Enter the IPv6 address of the dynamic DNS server. Alternatively, select

the server device in the drop-down menu.

Click **Apply** when you are done.





Management Time & Schedule **Time**

The Time page allows you to configure, update, and maintain the correct time on the internal system clock. From here you can set the time zone, the Network Time Protocol (NTP) server, and enable or disable daylight saving time.

In the Management menu on the bar on the top of the page, click **Time &** Schedule.

Time Configuration

Time Zone: Select your time zone from the drop-down menu.

Time: Displays the current date and time of the router.

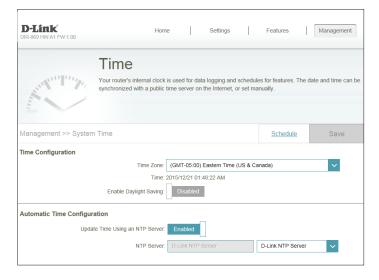
Daylight Saving: Enable or disable daylight saving time.

Automatic Time Configuration

Update Time Enable or disable to allow an NTP server on the Internet to synchronize Using an NTP the time and date with your router. If you enable this option, select **Server:** an NTP server from the drop-down menu. To configure the router's time and date manually, disable this option and use the drop-down menus that appear to input the time and date.

Click Save when you are done.

To configure and manage your schedules, click **Schedule** and refer to page 83.





Schedule

Some configuration rules can be set according to a pre-configured schedule. To create, edit, or delete schedules, from the Time page click **Schedule**. To return to the Time page, click **Time**.

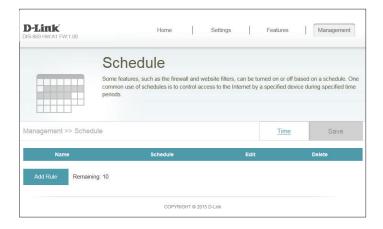
If you wish to remove a rule, click on its trash can icon in the Delete column. If you wish to edit a rule, click on its pencil icon in the Edit column. If you wish to create a new rule, click the **Add Rules** button. Click **Save** when you are done. If you edit or create a rule, the following screen will appear:

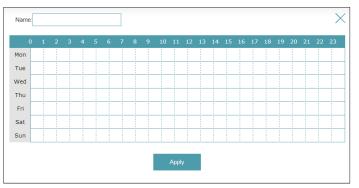
First, enter the name of your schedule in the **Name** field.

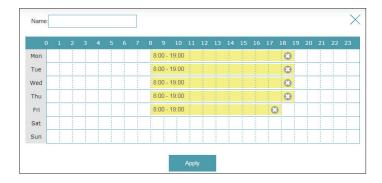
Each box represents one hour, with the time at the top of each column. To add a time period to the schedule, simply click on the start hour and drag to the end hour. You can add multiple days to the schedule, but only one period per day.

To remove a time period from the schedule, click on the cross icon.

Click **Apply** when you are done.







System Log

The router keeps a running log of events. This log can be sent to a Syslog server, and sent to your email address. In the Management menu on the bar on the top of the page, click **System Log**.

SysLog Settings

Enable Logging to Check this box to send the router logs to a SysLog Server. Syslog Server:

If Logging to the Syslog Server is **Enabled**:

Syslog Server IP Enter the IP address for the Syslog server. If the Syslog server is connected to the extender, select it from the drop-down menu to

automatically populate the field.

Email Settings

Enable Email If you want the logs to be automatically sent to an email address, **Notification:** enable this option.

If Email notification is **Enabled**:

From E-mail Enter the email address your SysLog messages will be sent from.

Address:

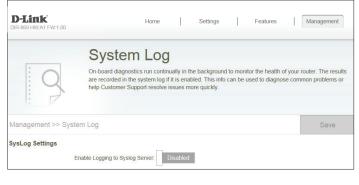
To E-mail Address: Enter the email address your SysLog messages will be sent to.

SMTP Server Enter your SMTP server address. Address:

SMTP Server Port: Enter your SMTP server port.

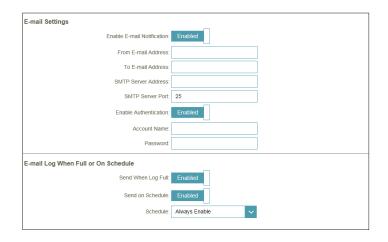
Enable Check this box if your SMTP server requires authentication.

Authentication:









Account Name: Enter your SMTP account name.

Password: Enter your SMTP account name's password.

E-mail Log When Full or On Schedule

Send On If email notification is enabled, this option will set the router to send

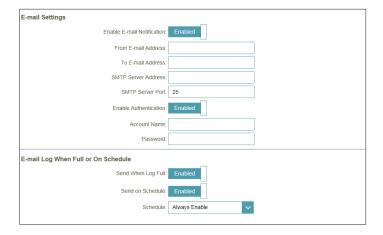
Schedule: the log by email when the log is full.

Schedule: This option can be enabled to send an email according to a

preconfigured schedule. See below.

If you enable **On Schedule** is enabled, use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to page 84 for more information.

Click **Save** when you are done.



Admin

This page will allow you to change the administrator (Admin) password and enable remote management. In the Management menu on the bar on the top of the page, click **Admin**. To load, save, reset settings, or reboot the router, click **System** and refer to page 83.

Admin Password

Password: Enter a new password for the administrator account. You will need to enter this password whenever you configure the router using a web browser.

Enable Graphical Enables a challenge-response test to require users to type letters or **Authentication** numbers from a distorted image displayed on the screen to prevent (CAPTCHA): online hackers and unauthorized users from gaining access to your router's network settings.

Advanced Settings - Administration

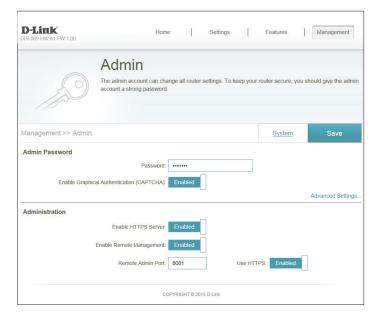
Enable HTTPS Check to enable HTTPS to connect to the router securely. Instead of using Server: http://dlinkrouter.local./, you must use https://dlinkrouter.local./ in order to connect to the router.

Enable Remote Remote management allows the DIR-869 to be configured from the Management: Internet by a web browser. A password is still required to access the web management interface.

Remote Admin The port number used to access the DIR-869 is used in the URL. Example: Port: http://x.x.x.x:8080 where x.x.x.x is the Internet IP address of the DIR-869 and 8080 is the port used for the web management interface.

Note: If you enabled **HTTPS Server** and wish to access the router remotely and securely, you must enter https:// at the beginning of the address.

Click Save when you are done.



System

This page allows you to save the router's current configuration, load a previously saved configuration, reset the router to its factory default settings, or reboot the router.

From the Admin page, click **System**. To return to the Admin page, click **Admin**.

Sytem

Save Settings To This option will save the current router configuration settings to a file **Local Hard Drive:** on your computer.

Drive:

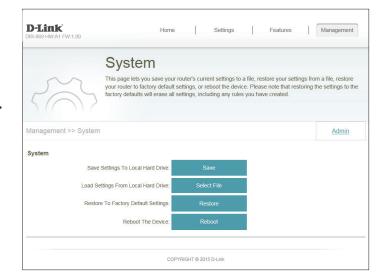
Load Settings This option will load a previously saved router configuration file. This will From Local Hard overwrite the router's current configuration.

Restore To Factory This option will restore all configuration settings back to the settings that **Default Settings:** were in effect at the time the router was shipped from the factory. Any settings that have not been saved will be lost, including any rules that you have created. If you want to save the current router configuration settings, use the Save Settings To Local Hard Drive button above.

Device:

Reboot The Click to reboot the router immediately.

Click Save when you are done.



Upgrade

This page will allow you to upgrade the router's firmware or language pack, either automatically or manually. To manually upgrade the firmware or language pack, you must first download the relevant file from http://support. dlink.com.

In the Management menu on the bar on the top of the page, click **Upgrade**.

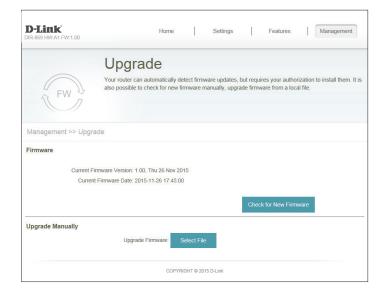
Firmware

Firmware The current firmware's version and date will be displayed. Information:

Check for New Click this button to prompt the router to automatically check for a new Firmware: firmware version. If a newer version is found, it will prompt you to install it.

Upgrade Manually

Upgrade If you wish to upgrade manually, first download the firmware file you wish Firmware: to upgrade to. Next, click the **Upgrade Firmware** button and browse to the file to install the new firmware. You can also browse to a language pack file to install a new language pack.



Statistics

On the Statistics page you can view the amount of packets that pass through the router on the WAN, LAN, and wireless segments.

In the Management menu on the bar on the top of the page, click **Statistics**.

You can view the **Internet**, **LAN**, **Wi-Fi 2.4 GHz**, or **Wi-Fi 5 GHz** by clicking on the respective tabs at the top. The graph will update in real time. To clear the information on the graph, click **Clear**.

The traffic counter will reset if the device is rebooted.



Configuration - Extender Mode - Access Point Settings

To access the configuration utility, open a web-browser such as Internet Explorer and enter **http://dlinkrouter.local./** or you may also connect by typing the IP address* of the DIR-869 in the address bar.

* By default the DIR-869 in extender mode will use DHCP to obtain an IP address from your uplink network. If you are using multiple DIR-869s or D-Link devices, go to **http://dlinkrouterxxxx.local./** as shown on the included Wi-Fi Configuration Card, with "xxxx" being the last four digits of the DIR-869's MAC address. The MAC address is also printed on the label on the bottom of the device.

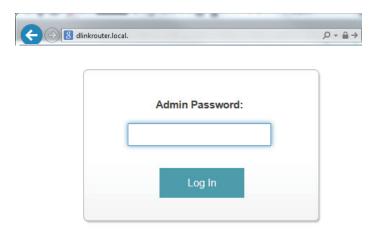
Enter your password. If you previously followed the setup wizard, please use the admin password you entered during the wizard. Otherwise, leave the password blank. Click **Log In** to proceed.

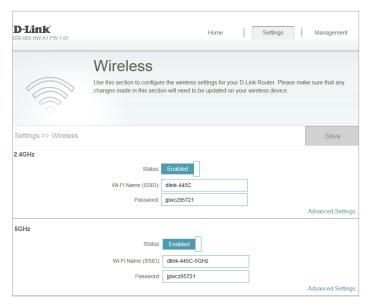
Note: If you cannot remember your password and cannot log in, press the reset/wps button on the back of the device for longer than 10 seconds to restore the router to its default settings.

The Access Point's Wireless Settings page will open, allowing you to easily adjust the wireless network settings.

The bar at the top of the page has quick access to the Home, Settings, and Management functions.

Note: The system will automatically log out after a period of inactivity.





Wireless

In the Settings menu on the bar on the top of the page, click **Wireless** to see the wireless configuration options.

2.4GHz / 5GHz

Status: Enable or disable the 2.4 GHz / 5 GHz wireless network.

Wi-Fi Name (SSID): Create a name for your wireless network using up to 32 characters.

Password: Create a password to use for wireless security.

Advanced Settings

Security Mode: Choose None, WEP, or WPA/WPA2-(Personal) (recommended).

802.11 Mode Select the desired wireless networking standards to use.

(2.4 GHz): The available options for the 2.4 GHz wireless network are Mixed

802.11b/g/n, Mixed 802.11g/n, 802.11n only.

802.11 Mode Select the desired wireless networking standards to use.

(5 GHz): The available options for the 5 GHz GHz wireless network are Mixed

802.11a/n/ac, Mixed 802.11n/ac, 802.11ac only, Mixed 802.11a/n,

Mixed 802.11n only, or 802.11a only.

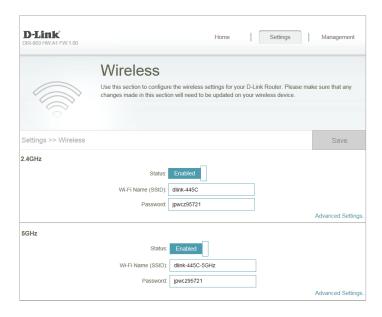
Wi-Fi Channel: Select the desired channel. The default is **Auto** (recommended).

Transmission Select the desired wireless transmission power.

Power:

Channel Width Select Auto 20/40 if you are using both 802.11n and non-802.11n

(2.4 GHz): devices, or select 20 MHz if you are not using any 802.11n devices.







Channel Width Select **Auto 20/40/80** if you are using 802.11ac, 802.11n, and 802.11a (5 GHz): devices, select Auto 20/40 if you are using 802.11n and 802.11a

devices, or select 20 MHz if you are only using 802.11a devices.

Coexistence:

HT20/40 Enable or disable HT20/40 Coexistence.

Visibility Status: The default setting is Visible. Select Invisible if you do not want to

broadcast the SSID of your wireless network.

Schedule: Use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to Always Enable, or you can create your own schedules in the Schedules section. Refer to page 98 for more information.

Click **Save** when you are done.



Network

This section will allow you to change the local network settings of the extender and to configure the device's connection to the uplink network. In the Settings menu on the bar on the top of the page, click **Network**. Click **Advanced Settings...** to expand the list and see all of the options.

Network Settings

Management The default address to access the extender's configuration is

Link: http://dlinkrouter.local./ Here, you can replace dlinkrouter with a name of your choice.

Advanced Settings - IPv4 Device Management Interface

My LAN Choose the IPv4 provisioning mechanism used by the extender. Select Connection Is: either Dynamic IP (DHCP) or Static IP. The Default is Dynamic IP.

If you change the connection type to **Static IP**, configure the following options:

IP Address: Enter the IP address of the extender. If you change the IP address, once you click **Save**, you will need to enter the new IP address in your

browser to get back into the configuration utility

Subnet Mask: Enter the subnet mask of the extender. The default subnet mask is

255.255.25.0.

Gateway Address: Enter the IP address of the device the Extender connects to.

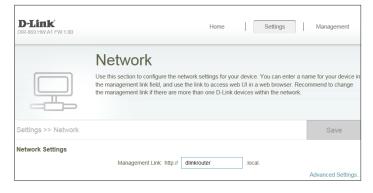
Primary DNS Enter the primary DNS server IP address assigned by your ISP. If you

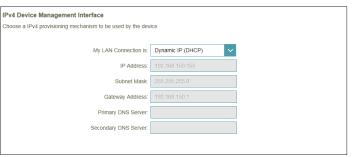
Server: do not know it, enter the Gateway Address.

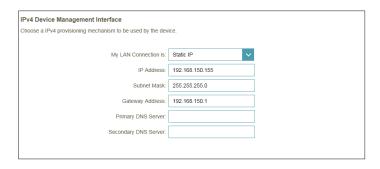
Secondary DNS Enter the secondary DNS server IP address assigned by your ISP. If

Server: you do not know it, enter the Gateway Address.

Click **Save** when you are done.





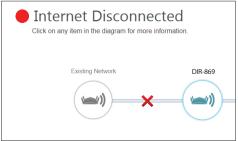


Home

The Home page displays the current status of the extender in the form of an interactive diagram. You can click each icon to display information about each part of the network at the bottom of the screen. The menu bar at the top of the page will allow you to quickly navigate to other pages.

The Home page displays whether or not the extender is currently connected to the Internet. If it is disconnected, click the red X between the existing network and the DIR-869 to bring up the setup wizard, refer to page 32 for more information.





DIR-869

To bring up more details about the connection to your existing network, click on the **DIR-869** icon. Your **Network** and **Wireless Network** settings are displayed at the bottom of the page.

Your Extender's MAC address, IPv4 address, and subnet mask are displayed. To reconfigure the Network settings, refer to page 93.

Your wireless network statuses, names, and passwords for both the 2.4 GHz and 5 GHz networks are shown. To reconfigure the Wireless settings, refer to page 91.



Connected Clients

Click on the **Connected Clients** icon to view details about the extender and its wireless settings.

On this page you can see all the clients currently connected to the extender, and their IP addresses.

To edit each client's settings, click the pencil icon on the client you want to edit.

Name: Enter a custom name for this client.

Vendor: Displays the vendor of the device.

MAC Address: Displays the MAC address of the device.

IP Address: Displays the IP address of the device.

Click **Save** when you are done.





Management Time & Schedule **Time**

The Time page allows you to configure, update, and maintain the correct time on the internal system clock. From here you can set the time zone, the Network Time Protocol (NTP) server, and enable or disable daylight saving time.

In the Management menu on the bar on the top of the page, click **Time &** Schedule.

Time Configuration

Time Zone: Select your time zone from the drop-down menu.

Time: Displays the current date and time of the router.

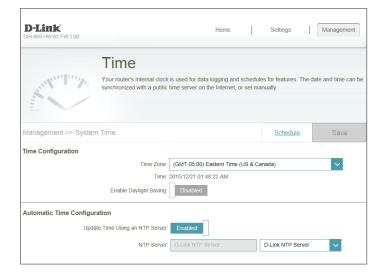
Daylight Saving: Enable or disable daylight saving time.

Automatic Time Configuration

Update Time Enable or disable to allow an NTP server on the Internet to synchronize Using an NTP the time and date with your router. If you enable this option, select **Server:** an NTP server from the drop-down menu. To configure the router's time and date manually, disable this option and use the drop-down menus that appear to input the time and date.

Click Save when you are done.

To configure and manage your schedules, click **Schedule** and refer to page 98.





Schedule

Some configuration rules can be set according to a pre-configured schedule. To create, edit, or delete schedules, from the Time page click **Schedule**. To return to the Time page, click **Time**.

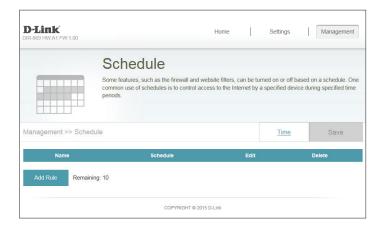
If you wish to remove a rule, click on its trash can icon in the Delete column. If you wish to edit a rule, click on its pencil icon in the Edit column. If you wish to create a new rule, click the **Add Rules** button. Click **Save** when you are done. If you edit or create a rule, the following screen will appear:

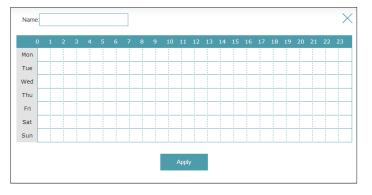
First, enter the name of your schedule in the **Name** field.

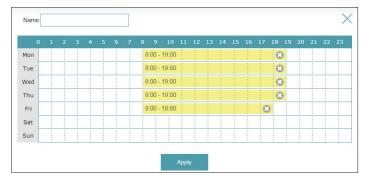
Each box represents one hour, with the time at the top of each column. To add a time period to the schedule, simply click on the start hour and drag to the end hour. You can add multiple days to the schedule, but only one period per day.

To remove a time period from the schedule, click on the cross icon.

Click **Apply** when you are done.







System Log

The router keeps a running log of events. This log can be sent to a Syslog server, and sent to your email address. In the Management menu on the bar on the top of the page, click **System Log**.

SysLog Settings

Enable Logging to Check this box to send the router logs to a SysLog Server. Syslog Server:

If Logging to the Syslog Server is **Enabled**:

Syslog Server IP Enter the IP address for the Syslog server. If the Syslog server is Address: connected to the extender, select it from the drop-down menu to

automatically populate the field.

Email Settings

Enable Email If you want the logs to be automatically sent to an email address, **Notification:** enable this option.

If Email notification is **Enabled**:

From E-mail Enter the email address your SysLog messages will be sent from. Address:

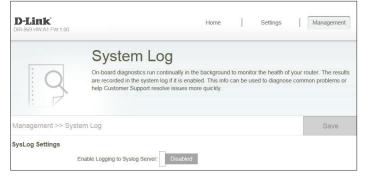
To E-mail Address: Enter the email address your SysLog messages will be sent to.

SMTP Server Enter your SMTP server address. Address:

SMTP Server Port: Enter your SMTP server port.

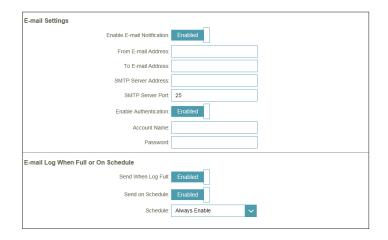
Enable Check this box if your SMTP server requires authentication.

Authentication:









Account Name: Enter your SMTP account name.

Password: Enter your SMTP account name's password.

E-mail Log When Full or On Schedule

Send On If email notification is enabled, this option will set the router to send

Schedule: the log by email when the log is full.

Schedule: This option can be enabled to send an email according to a

preconfigured schedule. See below.

If you enable **On Schedule** is enabled, use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to page 98 for more information.

Click Save when you are done.



Admin

This page will allow you to change the administrator (Admin) password and enable remote management. In the Management menu on the bar on the top of the page, click **Admin**. To load, save, reset settings, or reboot the router, click **System** and refer to page 102.

Admin Password

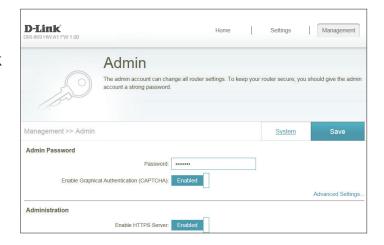
Password: Enter a new password for the administrator account. You will need to enter this password whenever you configure the router using a web browser.

Enable Graphical Enables a challenge-response test to require users to type letters or **Authentication** numbers from a distorted image displayed on the screen to prevent (CAPTCHA): online hackers and unauthorized users from gaining access to your router's network settings.

Advanced Settings - Administration

Enable HTTPS Check to enable HTTPS to connect to the router securely. Instead of using Server: http://dlinkrouter.local./, you must use https://dlinkrouter.local./ in order to connect to the router.

Click **Save** when you are done.



System

This page allows you to save the router's current configuration, load a previously saved configuration, reset the router to its factory default settings, or reboot the router.

From the Admin page, click **System**. To return to the Admin page, click **Admin**.

Sytem

Save Settings To This option will save the current router configuration settings to a file **Local Hard Drive:** on your computer.

Drive:

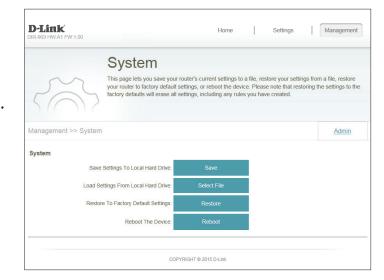
Load Settings This option will load a previously saved router configuration file. This will From Local Hard overwrite the router's current configuration.

Restore To Factory This option will restore all configuration settings back to the settings that **Default Settings:** were in effect at the time the router was shipped from the factory. Any settings that have not been saved will be lost, including any rules that you have created. If you want to save the current router configuration settings, use the Save Settings To Local Hard Drive button above.

Device:

Reboot The Click to reboot the router immediately.

Click Save when you are done.



Upgrade

This page will allow you to upgrade the router's firmware or language pack, either automatically or manually. To manually upgrade the firmware or language pack, you must first download the relevant file from http://support. dlink.com.

In the Management menu on the bar on the top of the page, click **Upgrade**.

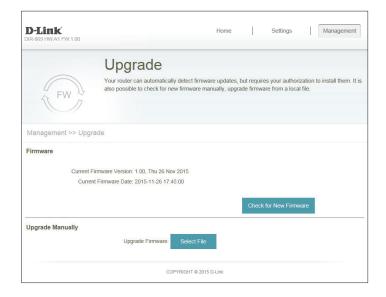
Firmware

Firmware The current firmware's version and date will be displayed. Information:

Check for New Click this button to prompt the router to automatically check for a new Firmware: firmware version. If a newer version is found, it will prompt you to install it.

Upgrade Manually

Upgrade If you wish to upgrade manually, first download the firmware file you wish Firmware: to upgrade to. Next, click the **Upgrade Firmware** button and browse to the file to install the new firmware. You can also browse to a language pack file to install a new language pack.



Connect a Wireless Client to your Router WPS Button

The easiest and most secure way to connect your wireless devices to the router is with WPS (Wi-Fi Protected Setup). Most wireless devices such as wireless adapters, media players, Blu-ray DVD players, wireless printers and cameras will have a WPS button (or a software utility with WPS) that you can press to connect to the DIR-869 router. Please refer to your user manual for the wireless device you want to connect to make sure you understand how to enable WPS. Once you know, follow the steps below:

Step 1 - Press the WPS button on the DIR-869 for about 1 second. The LED on the front will start to blink.



Step 2 - Within 2 minutes, press the WPS button on your wireless device (or launch the software utility and start the WPS process).

Step 3 - Allow up to 1 minute for your connection to be configured. Once the Internet light stops blinking, you will be connected and your wireless connection will be secure with WPA2.

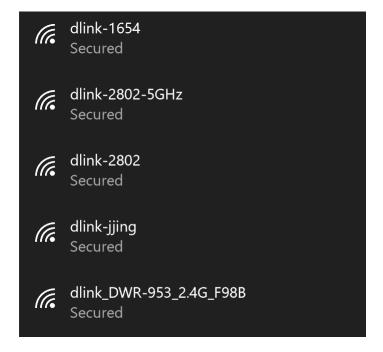
Windows® 10

When connecting to the DIR-869 wirelessly for the first time, you will need to input the wireless network name (SSID) and Wi-Fi password (security key) of the device you are connecting to. If your product has a Wi-Fi configuration card, you can find the default network name and Wi-Fi password here. Otherwise refer to the product label for the default Wi-Fi network SSID and password, or enter the Wi-Fi credentials set during the product configuration.

To join an existing network, locate the wireless network icon in the taskbar, next to the time display and click on it.



Clicking on this icon will display a list of wireless networks which are within range of your computer. Select the desired network by clicking on the SSID.

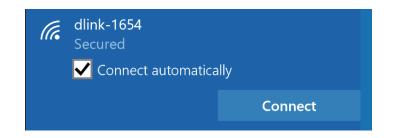


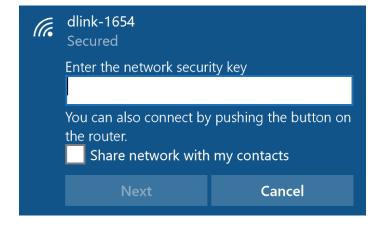
To connect to the SSID, click **Connect.**

To automatically connect with the router when your device next detects the SSID, click the **Connect Automatically** check box.

You will then be prompted to enter the Wi-Fi password (network security key) for the wireless network. Enter the password into the box and click **Next** to connect to the network. Your computer will now automatically connect to this wireless network when it is detected.

You can also use Wi-Fi Protected Setup (WPS) to connect to the router. Press the WPS button on your D-Link device and you will be automatically connected.





Windows® 8 WPA/WPA2

It is recommended that you enable wireless security (WPA/WPA2) on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the security key (Wi-Fi password) being used.

To join an existing network, locate the wireless network icon in the taskbar next to the time display.

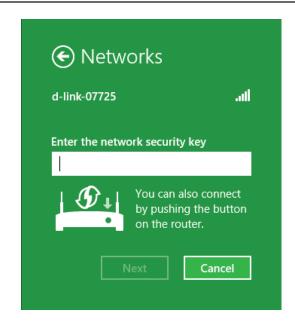


Clicking on this icon will display a list of wireless networks that are within connecting proximity of your computer. Select the desired network by clicking on the network name.

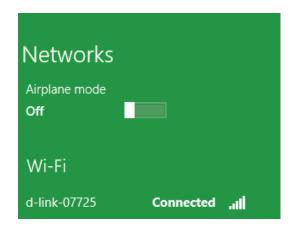


You will then be prompted to enter the network security key (Wi-Fi password) for the wireless network. Enter the password into the box and click **Next**.

If you wish to use Wi-Fi Protected Setup (WPS) to connect to the router, you can also press the WPS button on your router during this step to enable the WPS function.



When you have established a successful connection to a wireless network, the word **Connected** will appear next to the name of the network to which you are connected to.



Windows® 7 WPA/WPA2

It is recommended that you enable wireless security (WPA/WPA2) on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the security key or passphrase being used.

1. Click on the wireless icon in your system tray (lower-right corner).



2. The utility will display any available wireless networks in your area.

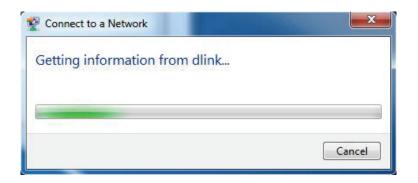


3. Highlight the wireless connection with Wi-Fi name (SSID) you would like to connect to and click the **Connect** button.

If you get a good signal but cannot access the Internet, check your TCP/IP settings for your wireless adapter. Refer to the Networking Basics section in this manual for more information.



4. The following window appears while your computer tries to connect to the router.



5. Enter the same security key or passphrase (Wi-Fi password) that is on your router and click **Connect**. You can also connect by pushing the WPS button on the router.

It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as the one on the wireless router.

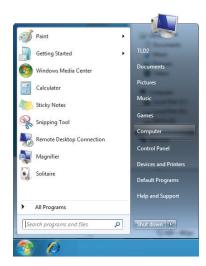


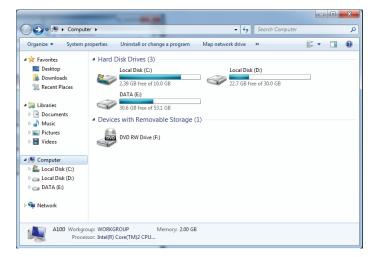
WPS

The WPS feature of the DIR-869 can be configured using Windows® 7. Carry out the following steps to use Windows® 7 to configure the WPS feature:

1. Click the **Start** button and select **Computer** from the Start menu.

2. Click **Network** on the left side.

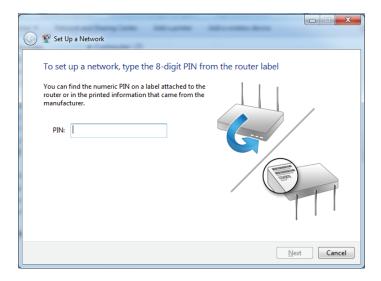




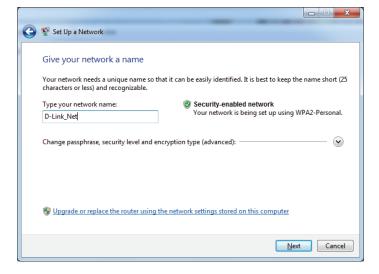
3. Double-click the DIR-869.



4. Input the WPS PIN number (on the router label) in the **Setup** > **Wireless Setup** menu in the Router's Web UI) and click **Next**.

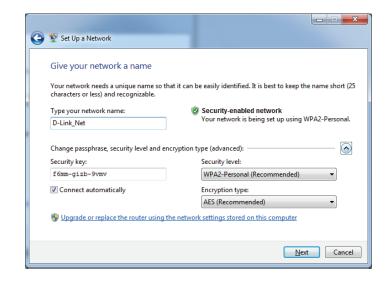


5. Type a name to identify the network.



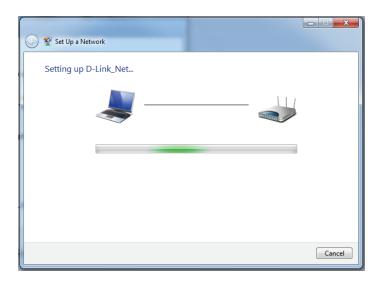
6. To configure advanced settings, click the \odot icon.

Click **Next** to continue.



7. The following window appears while the DIR-869 is being configured.

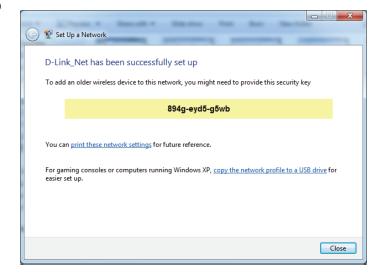
Wait for the configuration to complete.



8. The following window informs you that WPS on the DIR-869 has been set up successfully.

Make a note of the security key as you may need to provide this security key if adding an older wireless device to the network in the future.

9. Click **Close** to complete WPS setup.



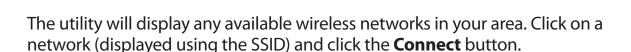
Windows Vista®

Windows Vista® users may use the built-in wireless utility. If you are using another company's wireless utility, please refer to the user manual of your wireless adapter for help connecting to a wireless network. Most wireless utilities will have a "site survey" option similar to the Windows Vista® utility as seen below.

If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

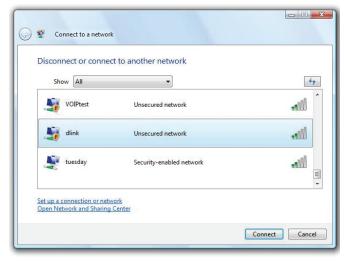
or

Right-click on the wireless computer icon in your system tray (lower-right corner next to the time). Select **Connect to a network**.



If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.





WPA/WPA2

It is recommended that you enable wireless security (WPA/WPA2) on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the security key or passphrase being used.

1. Open the Windows Vista® Wireless Utility by right-clicking on the wireless computer icon in your system tray (lower right corner of screen). Select **Connect to a network**.

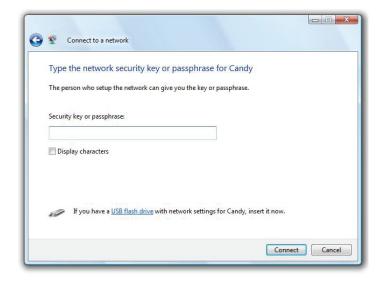


2. Highlight the Wi-Fi name (SSID) you would like to connect to and click **Connect**.



3. Enter the same security key or passphrase (Wi-Fi password) that is on your router and click **Connect**.

It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as the one on the wireless router.



Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DIR-869. Read the following descriptions if you are having problems. The examples below are illustrated in Windows® XP. If you have a different operating system, the screenshots on your computer will look similar to these examples.

1. Why can't I access the web-based configuration utility?

When entering the IP address of the D-Link router (**192.168.0.1** for example), you are not connecting to a website, nor do you have to be connected to the Internet. The device has the utility built-in to a ROM chip in the device itself. Your computer must be on the same IP subnet to connect to the web-based utility.

- Make sure you have an updated Java-enabled web browser. We recommend the following:
 - Internet Explorer® 11 or higher
 - Firefox 20 or higher
 - Safari 7 or higher
 - Chrome 25 or higher
- Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable, or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on.
- Disable any Internet security software running on the computer. Software firewalls such as ZoneAlarm, BlackICE, Sygate, Norton Personal Firewall, and Windows[®] XP firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.

- Configure your Internet settings:
 - Go to **Start** > **Settings** > **Control Panel**. Double-click the **Internet Options** Icon. From the **Security** tab, click the button to restore the settings to their defaults.
 - Click the **Connection** tab and set the dial-up option to Never Dial a Connection. Click the LAN Settings button. Make sure nothing is checked. Click **OK**.
 - Go to the **Advanced** tab and click the button to restore these settings to their defaults. Click **OK** three times.
 - Close your web browser (if open) and open it.
- Access the web management. Open your web browser and enter the IP address of your D-Link router in the address bar. This should open the login page for your web management.
- If you still cannot access the configuration, unplug the power to the router for 10 seconds and plug back in. Wait about 30 seconds and try accessing the configuration. If you have multiple computers, try connecting using a different computer.

2. What can I do if I forgot my password?

If you forgot your password, you must reset your router. This process will change all your settings back to the factory defaults.

To reset the router, locate the reset button (hole) on the rear panel of the unit. With the router powered on, use a paperclip to hold the button down for 10 seconds. Release the button and the router will go through its reboot process. Wait about 30 seconds to access the router. The default IP address is **192.168.0.1**. When logging in, leave the password box empty.

3. Why can't I connect to certain sites or send and receive emails when connecting through my router?

If you are having a problem sending or receiving email, or connecting to secure sites such as eBay, banking sites, and Hotmail, we suggest lowering the MTU in increments of ten (Ex. 1492, 1482, 1472, etc).

To find the proper MTU Size, you'll have to do a special ping of the destination you're trying to go to. A destination could be another computer, or a URL.

- Click on Start and then click Run.
- Windows® 95, 98, and Me users type in **command** (Windows® NT, 2000, XP, Vista®, and 7 users type in **cmd**) and press **Enter** (or click **OK**).
- Once the window opens, you'll need to do a special ping. Use the following syntax:

ping [url] [-f] [-l] [MTU value]

Example: ping yahoo.com -f -l 1472

```
C:\>ping yahoo.com -f -1 1482

Pinging yahoo.com [66.94.234.13] with 1482 bytes of data:

Packet needs to be fragmented but DF set.

Ping statistics for 66.94.234.13:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping yahoo.com -f -1 1472

Pinging yahoo.com [66.94.234.13] with 1472 bytes of data:

Reply from 66.94.234.13: bytes=1472 time=93ms TIL=52

Reply from 66.94.234.13: bytes=1472 time=109ms TIL=52

Reply from 66.94.234.13: bytes=1472 time=125ms TIL=52

Reply from 66.94.234.13: bytes=1472 time=203ms TIL=52

Ping statistics for 66.94.234.13:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 93ms, Maximum = 203ms, Average = 132ms

C:\>
```

You should start at 1472 and work your way down by 10 each time. Once you get a reply, go up by 2 until you get a fragmented packet. Take that value and add 28 to the value to account for the various TCP/IP headers. For example, lets say that 1452 was the proper value, the actual MTU size would be 1480, which is the optimum for the network we're working with (1452+28=1480).

Once you find your MTU, you can now configure your router with the proper MTU size.

To change the MTU rate on your router follow the steps below:

- Open your browser, enter the IP address of your router (192.168.0.1) and click **OK**.
- Enter your username (admin) and password (blank by default). Click **OK** to enter the web configuration page for the device.
- Click on **Setup** and then click **Manual Configure**.
- To change the MTU, enter the number in the MTU field and click **Save Settings** to save your settings.
- Test your email. If changing the MTU does not resolve the problem, continue changing the MTU in increments of ten.

Wireless Basics

D-Link wireless products are based on industry standards to provide easy-to-use and compatible high-speed wireless connectivity within your home, business, or public access wireless networks. Strictly adhering to the IEEE standard, the D-Link wireless family of products will allow you to securely access the data you want, when, and where you want it. You will be able to enjoy the freedom that wireless networking delivers.

A wireless local area network (WLAN) is a cellular computer network that transmits and receives data with radio signals instead of wires. Wireless LANs are used increasingly in both home and office environments, and public areas such as airports, coffee shops and universities. Innovative ways to utilize WLAN technology are helping people work, and communicate more efficiently. Increased mobility and the absence of cabling and other fixed infrastructure have proven to be beneficial for many users.

Wireless users can use the same applications they use on a wired network. Wireless adapter cards used on laptop and desktop systems support the same protocols as Ethernet adapter cards.

Under many circumstances, it may be desirable for mobile network devices to link to a conventional Ethernet LAN in order to use servers, printers or an Internet connection supplied through the wired LAN. A wireless router is a device used to provide this link.

What is Wireless?

Wireless or Wi-Fi technology is another way of connecting your computer to the network without using wires. Wi-Fi uses radio frequency to connect wirelessly so you have the freedom to connect computers anywhere in your home or office network.

Why D-Link Wireless?

D-Link is the worldwide leader and award winning designer, developer, and manufacturer of networking products. D-Link delivers the performance you need at a price you can afford. D-Link has all the products you need to build your network.

How does wireless work?

Wireless works similarly to how cordless phones work, through radio signals that transmit data from one point A to point B. But wireless technology has restrictions as to how you can access the network. You must be within the wireless network range area to be able to connect your computer. There are two different types of wireless networksl: Wireless Local Area Network (WLAN), and Wireless Personal Area Network (WPAN).

Wireless Local Area Network (WLAN)

In a wireless local area network, a device called an Access Point (AP) connects computers to the network. The access point has a small antenna attached to it, which allows it to transmit data back and forth over radio signals. With an indoor access point the signal can travel up to 300 feet. With an outdoor access point the signal can reach out up to 30 miles to serve places like manufacturing plants, industrial locations, university and high school campuses, airports, golf courses, and many other outdoor venues.

Wireless Personal Area Network (WPAN)

Bluetooth is the industry standard wireless technology used for WPAN. Bluetooth devices in WPAN operate in a range up to 30 feet away.

Compared to WLAN the speed and wireless operation range are both less than WLAN, but in return it doesn't use nearly as much power. This makes it ideal for personal devices, such as mobile phones, PDAs, headphones, laptops, speakers, and other devices that operate on batteries.

Who uses wireless?

Wireless technology as become so popular in recent years that almost everyone is using it, whether it's for home, office, business, D-Link has a wireless solution for it.

Home Uses/Benefits

- Gives everyone at home broadband access
- Surf the web, check email, instant message, etc.
- Gets rid of the cables around the house
- Simple and easy to use

Small Office and Home Office Uses/Benefits

- Stay on top of everything at home as you would at office
- Remotely access your office network from home
- Share Internet connection and printer with multiple computers

No need to dedicate office space

Where is wireless used?

Wireless technology is expanding everywhere, not just at home or office. People like the freedom of mobility and it's becoming so popular that more and more public facilities now provide wireless access to attract people. The wireless connection in public places is usually called "hotspots".

Using a D-Link USB adapter with your laptop, you can access the hotspot to connect to the Internet from remote locations like: airports, hotels, coffee shops, libraries, restaurants, and convention centers.

Wireless network is easy to setup, but if you're installing it for the first time it could be quite a task not knowing where to start. That's why we've put together a few setup steps and tips to help you through the process of setting up a wireless network.

Tips

Here are a few things to keep in mind, when you install a wireless network.

Centralize your router or access point

Make sure you place the router/access point in a centralized location within your network for the best performance. Try to place the router/access point as high as possible in the room, so the signal gets dispersed throughout your home. If you have a two-story home, you may need a repeater to boost the signal to extend the range.

Eliminate Interference

Place home appliances such as cordless telephones, microwaves, and televisions as far away as possible from the router/access point. This would significantly reduce any interference that the appliances might cause since they operate on same frequency.

Security

Don't let your next-door neighbors or intruders connect to your wireless network. Secure your wireless network by turning on the WPA or WEP security feature on the router. Refer to the product manual for detail information on how to set it up.

Wireless Modes

There are basically two modes of networking:

- Infrastructure All wireless clients will connect to an access point or wireless router.
- **Ad-hoc** Directly connecting to another computer for peer-to-peer communication using wireless network adapters on each computer, such as two or more DIR-869 wireless network USB adapters.

An Infrastructure network contains an access point or wireless router. All the wireless devices, or clients, will connect to the wireless router or access point.

An Ad-hoc network contains only clients, such as laptops with wireless USB adapters. All the adapters must be in Ad-hoc mode to communicate.

Networking Basics

Check your IP address

After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

Click on **Start** > **Run**. In the run box type **cmd** and click **OK**. (Windows® 7/Vista® users type **cmd** in the **Start Search** box.)

At the prompt, type *ipconfig* and press **Enter**.

This will display the IP address, subnet mask, and the default gateway of your adapter.

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your router. Some firewall software programs may block a DHCP request on newly installed adapters.

Statically Assign an IP address

If you are not using a DHCP capable gateway/router, or you need to assign a static IP address, please follow the steps below:

Step 1

Windows® 7 - Click on Start > Control Panel > Network and Internet > Network and Sharing Center.

Windows Vista® - Click on Start > Control Panel > Network and Internet > Network and Sharing Center > Manage

Network

Connections.

Windows® XP - Click on **Start** > **Control Panel** > **Network Connections**.

Windows® 2000 - From the desktop, right-click **My Network Places** > **Properties**.

Step 2

Right-click on the **Local Area Connection** which represents your network adapter and select **Properties**.

Step 3

Highlight Internet Protocol (TCP/IP) and click Properties.

Step 4

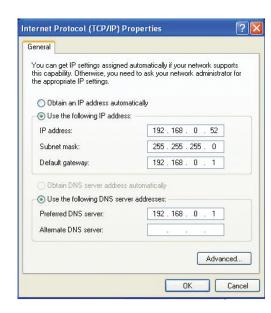
Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

Example: If the router's LAN IP address is 192.168.0.1, make your IP address 192.168.0.X where X is a number between 2 and 99. Make sure that the number you choose is not in use on the network. Set the Default Gateway the same as the LAN IP address of your router (I.E. 192.168.0.1).

Set Primary DNS the same as the LAN IP address of your router (192.168.0.1). The Secondary DNS is not needed or you may enter a DNS server from your ISP.

Step 5

Click **OK** twice to save your settings.



Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The DIR-869 offers the following types of security:

- WPA2 (Wi-Fi Protected Access 2)
- WPA (Wi-Fi Protected Access)

- WPA2-PSK (Pre-Shared Key)
- WPA-PSK (Pre-Shared Key)

What is WPA?

WPA (Wi-Fi Protected Access), is a Wi-Fi standard that was designed to improve the security features of WEP (Wired Equivalent Privacy).

The 2 major improvements over WEP:

- Improved data encryption through the Temporal Key Integrity Protocol (TKIP). TKIP scrambles the keys using a hashing algorithm and by adding an integrity-checking feature, ensures that the keys haven't been tampered with. WPA2 is based on 802.11i and uses Advanced Encryption Standard (AES) instead of TKIP.
- User authentication, which is generally missing in WEP, through the extensible authentication protocol (EAP). WEP regulates access to a wireless network based on a computer's hardware-specific MAC address, which is relatively simple to be sniffed out and stolen. EAP is built on a more secure public-key encryption system to ensure that only authorized network users can access the network.

WPA-PSK/WPA2-PSK uses a passphrase or key to authenticate your wireless connection. The key is an alpha-numeric password between 8 and 63 characters long. The password can include symbols (!?*&_) and spaces. This key must be the exact same key entered on your wireless router or access point.

WPA/WPA2 incorporates user authentication through the Extensible Authentication Protocol (EAP). EAP is built on a more secure public key encryption system to ensure that only authorized network users can access the network.

Technical Specifications

Hardware Specifications

- LAN Interface: Four 10/100/1000 Mbps LAN ports
- WAN Interface: One 10/100/1000 Mbps Internet port
- Wireless Interface (2.4 GHz): IEEE 802.11n/g/b
- Wireless Interface (5 GHz): IEEE 802.11 ac/n/a

Operating Voltage

- Input: 100~240 V AC, 50~60 Hz
- Output: 12 V DC, 1.5 A

Temperature

- Operating: 0 ~ 40 °C (32 ~ 104 °F)
- Non-Operating: -20 ~ 65 °C (-20 ~ 149 °F)

Humidity

- Operating: 10% 90% non-condensing
- Non-Operating: 5% 95% non-condensing

Wireless Frequency Range

- IEEE 802.11a: 5150 MHz~5250 MHz, 5725 MHz~5850 MHz
- IEEE 802.11b: 2400 MHz~2483.5 MHz
- IEEE 802.11g: 2400 MHz~2483.5 MHz
- IEEE 802.11n: 2400 MHz~2483.5 MHz, 5150 MHz~5250 MHz, 5725 MHz~5850 MHz
- IEEE 802.11ac: 5150 MHz~5250 MHz, 5725 MHz~5850 MHz

Wireless Bandwidth Rate

- IEEE 802.11a: 54, 48, 36, 24, 18, 12, 9, and 6 Mbps
- IEEE 802.11b: 11, 5.5, 2, and 1 Mbps

- IEEE 802.11g: 54, 48, 36, 24, 18, 12, 9, and 6 Mbps
- IEEE 802.11n: 6.5 to 450 Mbps
- IEEE 802.11ac: 6.5 to 1300 Mbps

Antenna Type

Four external antennas

Wireless Security

64/128bit WEP, WPA/WPA2-Personal, WPS-PBC

EMI/EMC Certification

- CE
- FCC
- IC
- BSMI
- CCC

RF Certification

- CE
- FCC
- IC
- NCC

Safety Certification

- CSA
- CCC
- BSMI

Dimensions & Weight

- 221.52 x 160.15 x 60.36 mm (8.72 x 6.30 x 2.38 inches)
- 432 g (15.24 ounces)

Regulatory Statements

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.

Non-modifications Statement:

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

Caution:

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.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures. For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

Note

The country code selection is for non-USA models only and is not available to all USA models. Per FCC regulations, all WiFi product marketed in the USA must be fixed to USA operational channels only.

RF Frequency Requirements

This device is for indoor use only when using all channels in the 5.150 to 5.250 GHz frequency range. High power radars are allocated as primary users of the 5.150 GHz - 5.250 GHz bands. These radar stations can cause interference with and/or damage this device.

It is restricted to indoor environments only.

IMPORTANT NOTICE:

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

Industry Canada Statement:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si lebrouillage est susceptible d'en compromettre le fonctionnement.
- (i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- (i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

Déclaration d'exposition aux radiations

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

This radio transmitter DIR-869A1 has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio DIR-869A1 a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Table for Filed Antenna

Set.	Ant.	Brand	D/N	Antenna Type	Connector		Gain (dBi)	
			P/N		2.4GHz	5GHz	2.4GHz	5GHz
	1	Nienyi	5330818141DLG	Dipole Antenna	N/A	-	2.5	-
1	2	Nienyi	5331818138DLG	Dipole Antenna	-	I-PEX	-	3
'	3	Nienyi	5332818110DLG	Dipole Antenna	N/A	I-PEX	3	3
	4	Nienyi	5332818129DLG	Dipole Antenna	N/A	I-PEX	3	3

Set.	Ant. Brand	P/N	Antonna Tyro	Conn	Connector		Gain (dBi)	
		brand	P/N	Antenna Type	2.4GHz	5GHz	2.4GHz	5GHz
	1	WHA YU	C037-511415-A	Dipole Antenna	N/A	-	2.47	-
2	2	WHA YU	C037-511416-A	Dipole Antenna	-	I-PEX	-	2.85
2	3	WHA YU	C037-511417-A	Dipole Antenna	N/A	I-PEX	2.35	2.83
	4	WHA YU	C037-511418-A	Dipole Antenna	N/A	I-PEX	2.47	2.72

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

This device and it's antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with IC multi-transmitter product procedures.

Cet appareil et son antenne (s) ne doit pas être co-localisés ou fonctionnement en association avec une autre antenne ou transmetteur.

The maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate.

le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5850 MHz)

doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

NCC 警語:

以下警語適用台灣地區

經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即停用,並改善至無干擾時方得繼續使用。前項合法通信,指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

本模組於取得認證後將依規定於模組本體標示審驗合格標籤系統廠商應於平台上標示「本產品內含射頻模 組: (ICCAF16LP0130T0) 字樣

無線傳輸設備 (UNII)

在 5.25-5.35 秭赫頻帶內操作之無線資訊傳輸設備,限於室內使用。無線資訊傳輸設備忍受合法通信之干擾且不得干擾合法通信;如造成干擾,應立即停用,俟無干擾之虞,始得繼續使用。無線資訊傳設備的製造廠商應確保頻率穩定性,如依製造廠商使用手冊上所述正常操作,發射的信號應維持於操作頻帶中。

電磁波曝露量MPE標準值(MPE) 1 mW/cm², 送測產品實值為 0.369651 mW/cm²

European Union:

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. For more information, please refer to the Declaration of Conformity.

Notice of Wireless Radio LAN Usage in The European Community:

- At the time of writing this addendum, some countries such as Italy, Greece, Portugal, and Spain have not allowed operation of radio devices in the 5 GHz bands, although operation of 2.4 GHz radio devices is allowed. Please check with your local authority to confirm.
- This device is restricted to indoor use when operated in the European Community using channels in the 5.15-5.35 GHz band to reduce the potential for interference.
- 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 where restrictive use applies. 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 10 mW EIRP in the frequency range of 2454 –2483.5 MHz. For detailed information the end-user should contact the national spectrum authority in France.

This equipment may be operated in AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, OL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

Usage Notes:

- To remain in conformance with European National spectrum usage regulations, frequency and channel limitations will be applied on the products according to the country where the equipment will be deployed.
- This device is restricted from functioning in Ad-hoc mode while operating in 5 GHz. Ad-hoc mode is direct peer-to-peer communication between two client devices without an Access Point.
- Access points will support DFS (Dynamic Frequency Selection) and TPC (Transmit Power Control) functionality as required when operating in 5 GHz within the EU.

2.4 GHz Wireless Frequency and Channel Operation in EEC Countries:

Region	Frequency Band	Max output power (EIRP)
Metropolitan	2400 - 2454 MHz	100 mW
Guadeloupe, Martinique, St Pierre et Miquelon, Mayotte	2454 - 2483.5 MHz	100 mW indoor, 10 mW outdoor
Reunion et Guyane	2400 - 2483.5 MHz	100 mW
Rest of EU community	2420 - 2483.5 MHz	100 mW

R&TTE 1999/5/EC				
	WLAN 2.4 - 2.4835 GHz			
IEEE 802.11b/g/n				
Spectrum Regulation	MHz, Europa (ETSI)	max. EIRP Innenbereich	max. EIRP Außenbereich	
Europa	2400 - 2483.5 MHz	100 mW	100 mW	
Fundaniah	2400 - 2454 MHz	100 mW	100 mW	
Frankreich	2454 - 2483.5 MHz	100 mW	10 mW	

5 GHz Wireless Frequency and Channel Operation in EEC Countries:				
Allowable 802.11a Frequencies and Channels	Countries			
5.15-5.25 GHz (Channels 36, 40, 44, 48)	Liechtenstein			
5.15-5.25 GHz & 5.725-5.875 GHz (Channels 36, 40, 44, 48, 149, 153, 157, 161, 165, 169)	Austria			
5.15-5.35 GHz (Channels 36, 40, 44, 48, 52, 56, 60, 64)	France			
5.15-5.35 & 5.47-5.725 GHz (Channels 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140)	Denmark, Germany, Iceland, Finland, Netherlands, Norway, Poland, Sweden, Slovenia, Luxembourg, U.K., Ireland, Slovak, Switzerland, Hungary, Italy			
5.15-5.35 GHz & 5.725-5.875 GHz (Channels 36, 40, 44, 48, 52, 56, 60, 64, 149, 153, 157, 161, 165, 169)	Czech Republic			

European Community Declaration of Conformity:

Česky [Czech]	D-Link tímto prohlašuje, že tento DIR-869 je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
Dansk [Danish]	Undertegnede D-Link erklærer herved, at følgende udstyr DIR-869 overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
Deutsch [German]	Hiermit erklärt D-Link, dass sich das Gerät DIR-869 in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
Eesti [Estonian]	Käesolevaga kinnitab D-Link seadme DIR-869 vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
English	D-Link hereby, declares that this DIR-869 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Español [Spanish]	Por medio de la presente D-Link declara que el DIR-869 cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ D-Link ΔΗΛΩΝΕΙ ΟΤΙ DIR-869 ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
Français [French]	Par la présente D-Link déclare que l'appareil DIR-869 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
Italiano [Italian]	Con la presente D-Link dichiara che questo DIR-869 è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Latviski [Latvian]	Ar šo D-Link deklarē, ka DIR-869 atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]	Šiuo D-Link deklaruoja, kad šis DIR-869 atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
Nederlands [Dutch]	Hierbij verklaart D-Link dat het toestel DIR-869 in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
Malti [Maltese]	Hawnhekk, D-Link, jiddikjara li dan DIR-869 jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
Magyar [Hungarian]	Alulírott, D-Link nyilatkozom, hogy a DIR-869 megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
	iranyelv egyéb eloirásainak.

Polski [Polish] Niniejszym D-Link oświadcza, że DIR-869 jest zgodny z zasadniczymi wymogami oraz pozostałymi st postanowieniami Dyrektywy 1999/5/EC.	
Português [Portuguese]	D-Link declara que este DIR-869 está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
Slovensko [Slovenian]	D-Link izjavlja, da je ta DIR-869 v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	D-Link týmto vyhlasuje, že DIR-869 spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
Suomi [Finnish]	D-Link vakuuttaa täten että DIR-869 tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

Warning Statement:

The power outlet should be near the device and easily accessible.



Disposing of and Recycling Your Product

ENGLISH EN



This symbol on the product or packaging means that according to local laws and regulations this product should be not be disposed of in household waste but sent for recycling. Please take it to a collection point designated by your local authorities once it has reached the end of its life, some will accept products for free. By recycling the product and its packaging in this manner you help to conserve the environment and protect human health.

D-Link and the Environment

At D-Link, we understand and are committed to reducing any impact our operations and products may have on the environment. To minimise this impact D-Link designs and builds its products to be as environmentally friendly as possible, by using recyclable, low toxic materials in both products and packaging.

D-Link recommends that you always switch off or unplug your D-Link products when they are not in use. By doing so you will help to save energy and reduce CO2 emissions.

To learn more about our environmentally responsible products and packaging please visit www.dlinkgreen.com.

DEUTSCH DE



Dieses Symbol auf dem Produkt oder der Verpackung weist darauf hin, dass dieses Produkt gemäß bestehender örtlicher Gesetze und Vorschriften nicht über den normalen Hausmüll entsorgt werden sollte, sondern einer Wiederverwertung zuzuführen ist. Bringen Sie es bitte zu einer von Ihrer Kommunalbehörde entsprechend amtlich ausgewiesenen Sammelstelle, sobald das Produkt das Ende seiner Nutzungsdauer erreicht hat. Für die Annahme solcher Produkte erheben einige dieser Stellen keine Gebühren. Durch ein auf diese Weise durchgeführtes Recycling des Produkts und seiner Verpackung helfen Sie, die Umwelt zu schonen und die menschliche Gesundheit zu schützen.

D-Link und die Umwelt

D-Link ist sich den möglichen Auswirkungen seiner Geschäftstätigkeiten und seiner Produkte auf die Umwelt bewusst und fühlt sich verpflichtet, diese entsprechend zu mindern. Zu diesem Zweck entwickelt und stellt D-Link seine Produkte mit dem Ziel größtmöglicher Umweltfreundlichkeit her und verwendet wiederverwertbare, schadstoffarme Materialien bei Produktherstellung und Verpackung.

D-Link empfiehlt, Ihre Produkte von D-Link, wenn nicht in Gebrauch, immer auszuschalten oder vom Netz zu nehmen. Auf diese Weise helfen Sie, Energie zu sparen und CO2-Emissionen zu reduzieren.

Wenn Sie mehr über unsere umweltgerechten Produkte und Verpackungen wissen möchten, finden Sie entsprechende Informationen im Internet unter www.dlinkgreen.com.

FRANÇAIS



Ce symbole apposé sur le produit ou son emballage signifie que, conformément aux lois et règlementations locales, ce produit ne doit pas être éliminé avec les déchets domestiques mais recyclé. Veuillez le rapporter à un point de collecte prévu à cet effet par les autorités locales; certains accepteront vos produits gratuitement. En recyclant le produit et son emballage de cette manière, vous aidez à préserver l'environnement et à protéger la santé de l'homme.

D-Link et l'environnement

Chez D-Link, nous sommes conscients de l'impact de nos opérations et produits sur l'environnement et nous engageons à le réduire. Pour limiter cet impact, D-Link conçoit et fabrique ses produits de manière aussi écologique que possible, en utilisant des matériaux recyclables et faiblement toxiques, tant dans ses produits que ses emballages.

D-Link recommande de toujours éteindre ou débrancher vos produits D-Link lorsque vous ne les utilisez pas. Vous réaliserez ainsi des économies d'énergie et réduirez vos émissions de CO2.

Pour en savoir plus sur les produits et emballages respectueux de l'environnement, veuillez consulter le www.dlinkgreen.com.

ESPAÑOL ES



Este símbolo en el producto o el embalaje significa que, de acuerdo con la legislación y la normativa local, este producto no se debe desechar en la basura doméstica sino que se debe reciclar. Llévelo a un punto de recogida designado por las autoridades locales una vez que ha llegado al fin de su vida útil; algunos de ellos aceptan recogerlos de forma gratuita. Al reciclar el producto y su embalaje de esta forma, contribuye a preservar el medio ambiente y a proteger la salud de los seres humanos.

D-Link y el medio ambiente

En D-Link, comprendemos y estamos comprometidos con la reducción del impacto que puedan tener nuestras actividades y nuestros productos en el medio ambiente. Para reducir este impacto, D-Link diseña y fabrica sus productos para que sean lo más ecológicos posible, utilizando materiales reciclables y de baja toxicidad tanto en los productos como en el embalaje.

D-Link recomienda apagar o desenchufar los productos D-Link cuando no se estén utilizando. Al hacerlo, contribuirá a ahorrar energía y a reducir las emisiones de CO2.

Para obtener más información acerca de nuestros productos y embalajes ecológicos, visite el sitio www.dlinkgreen.com.

ITALIANO



La presenza di questo simbolo sul prodotto o sulla confezione del prodotto indica che, in conformità alle leggi e alle normative locali, questo prodotto non deve essere smaltito nei rifiuti domestici, ma avviato al riciclo. Una volta terminato il ciclo di vita utile, portare il prodotto presso un punto di raccolta indicato dalle autorità locali. Alcuni questi punti di raccolta accettano gratuitamente i prodotti da riciclare. Scegliendo di riciclare il prodotto e il relativo imballaggio, si contribuirà a preservare l'ambiente e a salvaguardare la salute umana.

D-Link e l'ambiente

D-Link cerca da sempre di ridurre l'impatto ambientale dei propri stabilimenti e dei propri prodotti. Allo scopo di ridurre al minimo tale impatto, D-Link progetta e realizza i propri prodotti in modo che rispettino il più possibile l'ambiente, utilizzando materiali riciclabili a basso tasso di tossicità sia per i prodotti che per gli imballaggi.

D-Link raccomanda di spegnere sempre i prodotti D-Link o di scollegarne la spina quando non vengono utilizzati. In questo modo si contribuirà a risparmiare energia e a ridurre le emissioni di anidride carbonica.

Per ulteriori informazioni sui prodotti e sugli imballaggi D-Link a ridotto impatto ambientale, visitate il sito all'indirizzo www.dlinkgreen.com.

NEDERLANDS



Dit symbool op het product of de verpakking betekent dat dit product volgens de plaatselijke wetgeving niet mag worden weggegooid met het huishoudelijk afval, maar voor recyclage moeten worden ingeleverd. Zodra het product het einde van de levensduur heeft bereikt, dient u het naar een inzamelpunt te brengen dat hiertoe werd aangeduid door uw plaatselijke autoriteiten, sommige autoriteiten accepteren producten zonder dat u hiervoor dient te betalen. Door het product en de verpakking op deze manier te recyclen helpt u het milieu en de gezondheid van de mens te beschermen.

D-Link en het milieu

Bij D-Link spannen we ons in om de impact van onze handelingen en producten op het milieu te beperken. Om deze impact te beperken, ontwerpt en bouwt D-Link zijn producten zo milieuvriendelijk mogelijk, door het gebruik van recycleerbare producten met lage toxiciteit in product en verpakking.

D-Link raadt aan om steeds uw D-Link producten uit te schakelen of uit de stekker te halen wanneer u ze niet gebruikt. Door dit te doen bespaart u energie en beperkt u de CO2-emissies.

Breng een bezoek aan www.dlinkgreen.com voor meer informatie over onze milieuverantwoorde producten en verpakkingen.

POLSKI



Ten symbol umieszczony na produkcie lub opakowaniu oznacza, że zgodnie z miejscowym prawem i lokalnymi przepisami niniejszego produktu nie wolno wyrzucać jak odpady czy śmieci z gospodarstwa domowego, lecz należy go poddać procesowi recyklingu. Po zakończeniu użytkowania produktu, niektóre odpowiednie do tego celu podmioty przyjmą takie produkty nieodpłatnie, dlatego prosimy dostarczyć go do punktu zbiórki wskazanego przez lokalne władze. Poprzez proces recyklingu i dzięki takiemu postępowaniu z produktem oraz jego opakowaniem, pomogą Państwo chronić środowisko naturalne i dbać o ludzkie zdrowie.

D-Link i środowisko

D-Link podchodzimy w sposób świadomy do ochrony otoczenia oraz jesteśmy zaangażowani w zmniejszanie wpływu naszych działań i produktów na środowisko naturalne. W celu zminimalizowania takiego wpływu firma D-Link konstruuje i wytwarza swoje produkty w taki sposób, aby były one jak najbardziej przyjazne środowisku, stosując do tych celów materiały nadające się do powtórnego wykorzystania, charakteryzujące się małą toksycznością zarówno w przypadku samych produktów jak i opakowań.

Firma D-Link zaleca, aby Państwo zawsze prawidłowo wyłączali z użytku swoje produkty D-Link, gdy nie są one wykorzystywane. Postępując w ten sposób pozwalają Państwo oszczędzać energię i zmniejszać emisje CO2.

Aby dowiedzieć się więcej na temat produktów i opakowań mających wpływ na środowisko prosimy zapoznać się ze stroną Internetową **www. dlinkgreen.com**.

ČESKY



Tento symbol na výrobku nebo jeho obalu znamená, že podle místně platných předpisů se výrobek nesmí vyhazovat do komunálního odpadu, ale odeslat k recyklaci. Až výrobek doslouží, odneste jej prosím na sběrné místo určené místními úřady k tomuto účelu. Některá sběrná místa přijímají výrobky zdarma. Recyklací výrobku i obalu pomáháte chránit životní prostředí i lidské zdraví.

D-Link a životní prostředí

Ve společnosti D-Link jsme si vědomi vlivu našich provozů a výrobků na životní prostředí a snažíme se o minimalizaci těchto vlivů. Proto své výrobky navrhujeme a vyrábíme tak, aby byly co nejekologičtější, a ve výrobcích i obalech používáme recyklovatelné a nízkotoxické materiály.

Společnost D-Link doporučuje, abyste své výrobky značky D-Link vypnuli nebo vytáhli ze zásuvky vždy, když je nepoužíváte. Pomůžete tak šetřit energii a snížit emise CO2.

Více informací o našich ekologických výrobcích a obalech najdete na adrese www.dlinkgreen.com.

MAGYAR



Ez a szimbólum a terméken vagy a csomagoláson azt jelenti, hogy a helyi törvényeknek és szabályoknak megfelelően ez a termék nem semmisíthető meg a háztartási hulladékkal együtt, hanem újrahasznosításra kell küldeni. Kérjük, hogy a termék élettartamának elteltét követően vigye azt a helyi hatóság által kijelölt gyűjtőhelyre. A termékek egyes helyeken ingyen elhelyezhetők. A termék és a csomagolás újrahasznosításával segíti védeni a környezetet és az emberek egészségét.

A D-Link és a környezet

A D-Linknél megértjük és elkötelezettek vagyunk a műveleteink és termékeink környezetre gyakorolt hatásainak csökkentésére. Az ezen hatás csökkentése érdekében a D-Link a lehető leginkább környezetbarát termékeket tervez és gyárt azáltal, hogy újrahasznosítható, alacsony károsanyagtartalmú termékeket gyárt és csomagolásokat alkalmaz.

A D-Link azt javasolja, hogy mindig kapcsolja ki vagy húzza ki a D-Link termékeket a tápforrásból, ha nem használja azokat. Ezzel segít az energia megtakarításában és a széndioxid kibocsátásának csökkentésében.

Környezetbarát termékeinkről és csomagolásainkról további információkat a www.dlinkgreen.com weboldalon tudhat meg.

NORSK



Dette symbolet på produktet eller forpakningen betyr at dette produktet ifølge lokale lover og forskrifter ikke skal kastes sammen med husholdningsavfall, men leveres inn til gjenvinning. Vennligst ta det til et innsamlingssted anvist av lokale myndigheter når det er kommet til slutten av levetiden. Noen steder aksepteres produkter uten avgift. Ved på denne måten å gjenvinne produktet og forpakningen hjelper du å verne miljøet og beskytte folks helse.

D-Link og miljøet

Hos D-Link forstår vi oss på og er forpliktet til å minske innvirkningen som vår drift og våre produkter kan ha på miljøet. For å minimalisere denne innvirkningen designer og lager D-Link produkter som er så miljøvennlig som mulig, ved å bruke resirkulerbare, lav-toksiske materialer både i produktene og forpakningen.

D-Link anbefaler at du alltid slår av eller frakobler D-Link-produkter når de ikke er i bruk. Ved å gjøre dette hjelper du å spare energi og å redusere CO2-utslipp.

For mer informasjon angående våre miljøansvarlige produkter og forpakninger kan du gå til www.dlinkgreen.com.

DANSK



Dette symbol på produktet eller emballagen betyder, at dette produkt i henhold til lokale love og regler ikke må bortskaffes som husholdningsaffald, mens skal sendes til genbrug. Indlever produktet til et indsamlingssted som angivet af de lokale myndigheder, når det er nået til slutningen af dets levetid. I nogle tilfælde vil produktet blive modtaget gratis. Ved at indlevere produktet og dets emballage til genbrug på denne måde bidrager du til at beskytte miljøet og den menneskelige sundhed.

D-Link og miljøet

Hos D-Link forstår vi og bestræber os på at reducere enhver indvirkning, som vores aktiviteter og produkter kan have på miljøet. For at minimere denne indvirkning designer og producerer D-Link sine produkter, så de er så miljøvenlige som muligt, ved at bruge genanvendelige materialer med lavt giftighedsniveau i både produkter og emballage.

D-Link anbefaler, at du altid slukker eller frakobler dine D-Link-produkter, når de ikke er i brug. Ved at gøre det bidrager du til at spare energi og reducere CO2-udledningerne.

Du kan finde flere oplysninger om vores miljømæssigt ansvarlige produkter og emballage på www.dlinkgreen.com.

SUOMI



Tämä symboli tuotteen pakkauksessa tarkoittaa, että paikallisten lakien ja säännösten mukaisesti tätä tuotetta ei pidä hävittää yleisen kotitalousjätteen seassa vaan se tulee toimittaa kierrätettäväksi. Kun tuote on elinkaarensa päässä, toimita se lähimpään viranomaisten hyväksymään kierrätyspisteeseen. Kierrättämällä käytetyn tuotteen ja sen pakkauksen autat tukemaan sekä ympäristön että ihmisten terveyttä ja hyvinvointia.

D-Link ja ympäristö

D-Link ymmärtää ympäristönsuojelun tärkeyden ja on sitoutunut vähentämään tuotteistaan ja niiden valmistuksesta ympäristölle mahdollisesti aiheutuvia haittavaikutuksia. Nämä negatiiviset vaikutukset minimoidakseen D-Link suunnittelee ja valmistaa tuotteensa mahdollisimman ympäristöystävällisiksi käyttämällä kierrätettäviä, alhaisia pitoisuuksia haitallisia aineita sisältäviä materiaaleja sekä tuotteissaan että niiden pakkauksissa.

Suosittelemme, että irrotat D-Link-tuotteesi virtalähteestä tai sammutat ne aina, kun ne eivät ole käytössä. Toimimalla näin autat säästämään energiaa ja vähentämään hiilidioksiidipäästöjä.

Lue lisää ympäristöystävällisistä D-Link-tuotteista ja pakkauksistamme osoitteesta www.dlinkgreen.com.

SVENSKA



Den här symbolen på produkten eller förpackningen betyder att produkten enligt lokala lagar och föreskrifter inte skall kastas i hushållssoporna utan i stället återvinnas. Ta den vid slutet av dess livslängd till en av din lokala myndighet utsedd uppsamlingsplats, vissa accepterar produkter utan kostnad. Genom att på detta sätt återvinna produkten och förpackningen hjälper du till att bevara miljön och skydda människors hälsa.

D-Link och miljön

På D-Link förstår vi och är fast beslutna att minska den påverkan våra verksamheter och produkter kan ha på miljön. För att minska denna påverkan utformar och bygger D-Link sina produkter för att de ska vara så miljövänliga som möjligt, genom att använda återvinningsbara material med låg gifthalt i både produkter och förpackningar.

D-Link rekommenderar att du alltid stänger av eller kopplar ur dina D-Link produkter när du inte använder dem. Genom att göra detta hjälper du till att spara energi och minska utsläpp av koldioxid.

För mer information om våra miljöansvariga produkter och förpackningar www.dlinkgreen.com.

PORTUGUÊS



Este símbolo no produto ou embalagem significa que, de acordo com as leis e regulamentações locais, este produto não deverá ser eliminado juntamente com o lixo doméstico mas enviado para a reciclagem. Transporte-o para um ponto de recolha designado pelas suas autoridades locais quando este tiver atingido o fim da sua vida útil, alguns destes pontos aceitam produtos gratuitamente. Ao reciclar o produto e respectiva embalagem desta forma, ajuda a preservar o ambiente e protege a saúde humana.

A D-Link e o ambiente

Na D-Link compreendemos e comprometemo-nos com a redução do impacto que as nossas operações e produtos possam ter no ambiente. Para minimizar este impacto a D-Link concebe e constrói os seus produtos para que estes sejam o mais inofensivos para o ambiente possível, utilizando meteriais recicláveis e não tóxicos tanto nos produtos como nas embalagens.

A D-Link recomenda que desligue os seus produtos D-Link quando estes não se encontrarem em utilização. Com esta acção ajudará a poupar energia e reduzir as emissões de CO2.

Para saber mais sobre os nossos produtos e embalagens responsáveis a nível ambiental visite www.dlinkgreen.com.