

D-Link®

Version 2.00 | 2021/06/16

EXO | AX

AX1800 Mesh Wi-Fi 6 Router



DIR-X1860
User Manual

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

Hardware	Revision	Date	Description
B1	v2.00	2021/06/16	Initial release

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ErP 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.

DIR-X1860	Network Standby: 4.04 watts Switched Off: 0.06 watts
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Product Overview

Package Contents

	DIR-X1860
DIR-X1860	V
Quick Installation Guide	V
Quick Installation Card	V
Ethernet Cable (RJ45)	V
Power Adapter	V

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

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

System Requirements

Network Requirements	• An Ethernet-based cable, DSL or fiber modem • IEEE 802.11ax/ac/n/g/b/a wireless clients • 10/100/1000 Ethernet
Web-based Configuration Utility Requirements	Computer with the following: • Windows®, Macintosh, or Linux-based operating system • An installed Ethernet adapter Browser Requirements: • Internet Explorer 10 or higher • Firefox 28 or higher • Safari 6 or higher • Chrome 28 or higher Windows® Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.
D-Link Wi-Fi App Requirements	• iOS® or Android™ device (Please refer to the app's store page to check whether your device is compatible.)

Features

Need super-fast Wi-Fi for your wire-free, all-streaming house? With a powerful dual-core processor, the AX1800 Mesh Wi-Fi 6 Router packs in enough processing power to handle every networking task you throw at it. It's a powerful, intelligent home router with integrated voice assistant compatibility for Amazon Alexa and Google Assistant so you can control your network with voice commands.

Handle More with a High-Power Processor

With the DIR-X1860, you're not only enjoying buffer-free gaming and lightning fast surfing, you're also enjoying features such as an optimizing QoS, an automatic firmware update system that ensures the best protection and the latest features, and compatibility with voice assistants. All this is possible with the router's 880MHz dual-core processor, 128 MB of flash memory and 256 MB of RAM.

Enhanced Quality of Service Features

The built-in Quality of Service (QoS) engine allows you to prioritize important traffic to ensure that your favorite applications are receiving optimal bandwidth.

Always Up-to-Date with the Latest Features

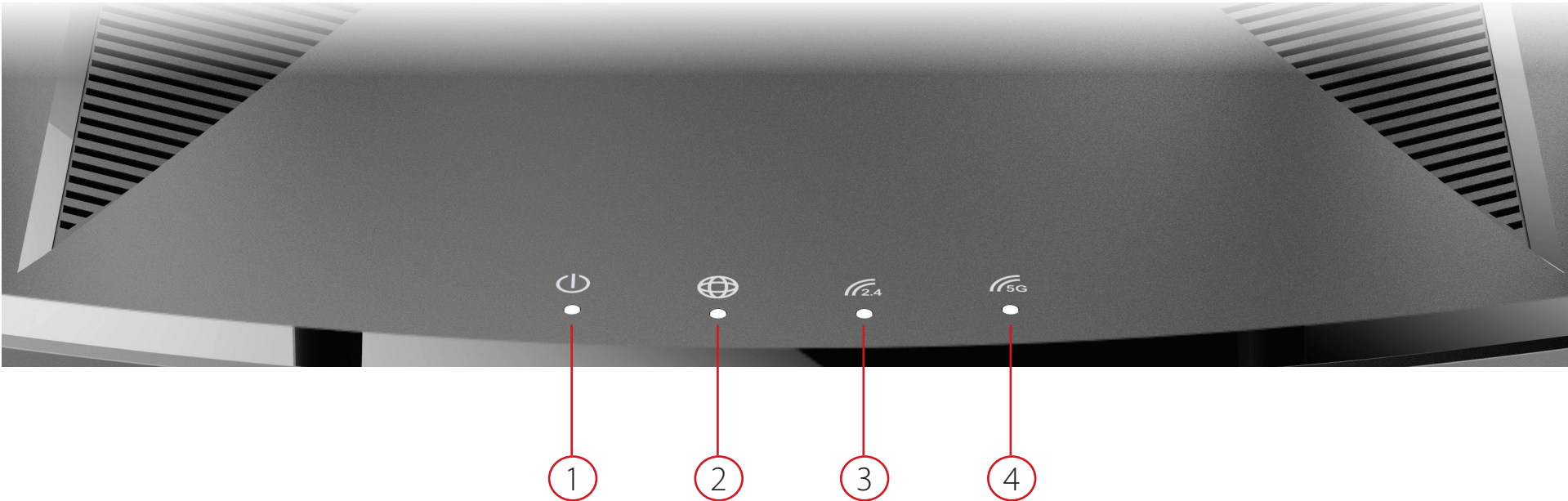
The DIR-X1860 will automatically check daily for updates to make sure that the device always has the latest features and the most secure firmware, and will install the update silently in the background. For an extra peace of mind, in the event of failure during the firmware update, the router will store a backup system image in the memory before proceeding with the update.

Easy to Set Up and Manage

Sharing your Internet connection doesn't have to be a complicated process; just download the free D-Link Wi-Fi app for your mobile device and follow the on-screen step-by-step instructions to set up your DIR-X1860. You also have the option to use a web browser to access the setup wizard and to manage your router. Support for industry-standard Wi-Fi Protected Setup (WPS) lets you create encrypted connections to new devices by pressing a button.

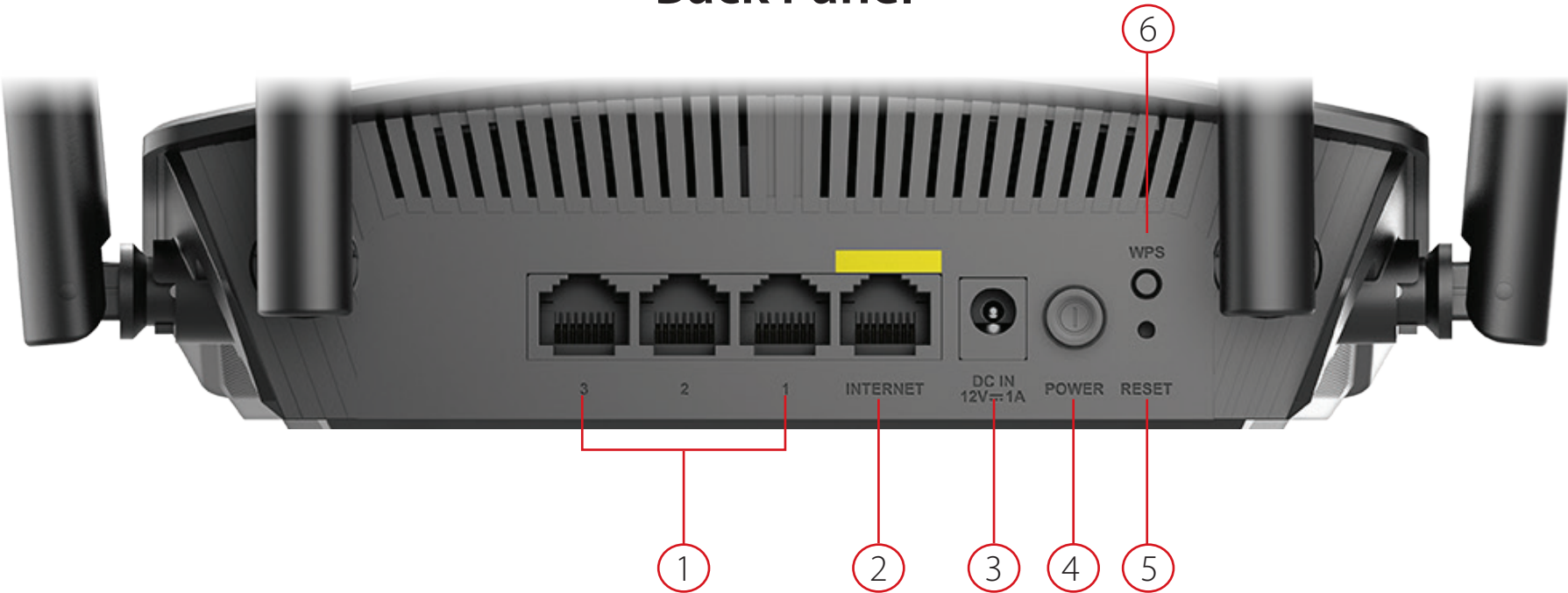
Hardware Overview

LED Indicators



1	Power	Solid White	The device is on and the system is healthy.
		Solid Orange	The device is booting up or performing the factory reset process.
		Blinking Orange	The device is under recovery mode.
2	Internet	Solid White	The Internet port connection is established.
		Solid Orange	The device cannot connect to the Internet.
		Blinking Orange	The device is undergoing the firmware upgrade process.
3	Wireless (2.4 GHz)	Solid White	The 2.4 GHz wireless band is enabled.
		Blinking White	The device is processing WPS.
4	Wireless (5 GHz)	Solid White	The 5 GHz wireless band is enabled.
		Blinking White	The device is processing WPS.

Back Panel



1	Gigabit LAN Ports (1- 3)	Connect Ethernet devices such as computers, switches, storage (NAS) devices, and game consoles.
2	Gigabit WAN Port	Using an Ethernet cable, connect your broadband modem to this port.
3	Power Connector	Connector for the supplied power adapter.
4	Power Button	Press the power button to power the device on or off.
5	Reset Button	Insert a paperclip in the hole, wait for 10 seconds, and release to reset the router to default settings.
6	WPS Button	Press to start the WPS process and automatically create an encrypted connection to a WPS client.

Installation

This section will walk you through the installation of your DIR-X1860.

Before you Begin

- Placement of the router is very important. Do not place the router in an enclosed area such as a closet, cabinet, attic, or garage.
- 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.

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.

Setup

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

- **D-Link Wi-Fi App** - Use your compatible Android or iOS device to install and configure your router. Refer to **D-Link Wi-Fi App Setup** on page **9**.
- **Hardware Setup** - This section explains how to setup your DIR-X1860. Refer to **Hardware Setup** on page **11**.
- **D-Link Setup Wizard** - This wizard will launch when you log into the router by using your PC for the first time. Refer to **Setup Wizard** on page **14**.
- **Manual Setup** - Log in to the router to manually configure your router. Refer to **Configuration** on page **21**

D-Link Wi-Fi App Setup

The D-Link Wi-Fi app allows you to install and configure your DIR-X1860 from your compatible Android or iOS device.

Note: *The screenshots may be different depending on your mobile device's OS version. The following steps show the iOS interface of the D-Link Wi-Fi app. If you are using an Android device, the appearance may be different from that of the screenshots, but the process is the same.*

Step 1

Search and install the free **D-Link Wi-Fi** app available on the App Store or on Google Play. You can also scan the QR code on the right, which will take you to the respective D-Link Wi-Fi app store page.



Step 2

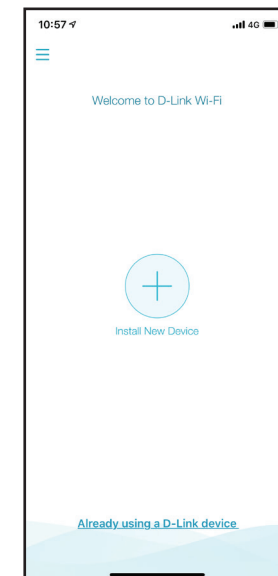
Launch the D-Link Wi-Fi app from the home screen of your device.



D-Link Wi-Fi

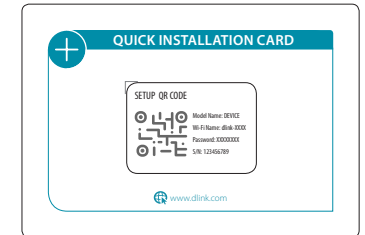
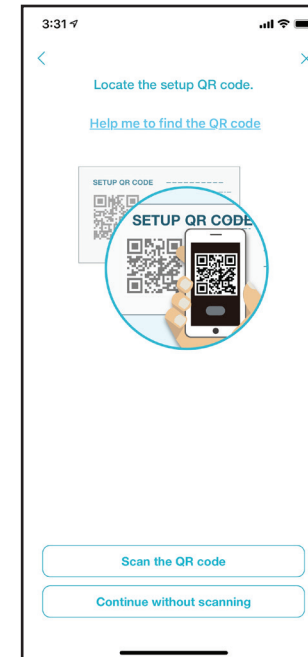
Step 3

Tap on the **Install New Device** button at the middle of the screen.



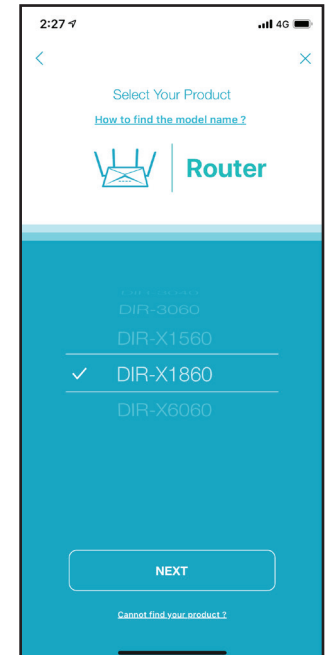
Step 4

Tap **Scan the QR code** to scan the setup QR code located in the Quick Installation Card and proceed to step 6. Alternatively, you can tap **Continue without scanning** to proceed to step 5.



Step 5

Select **Router** and select **DIR-X1860** from the list of available devices. Tap **Next** to continue.



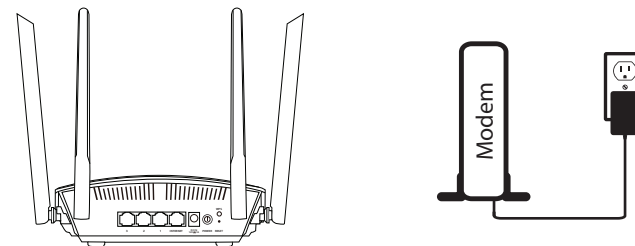
Step 6

You will now be guided through a step-by-step process for setting up your router. Simply follow the on-screen instructions to continue the installation and the configuration process.

Hardware Setup

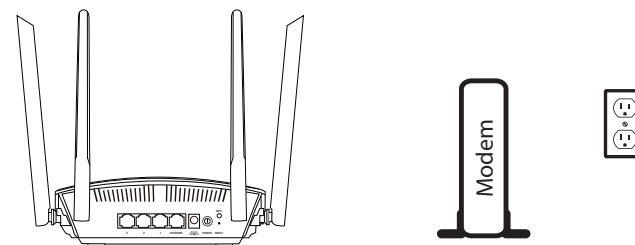
Step 1

Position your DIR-X1860 near your Internet-connected modem. Place it in an open area for better wireless coverage.



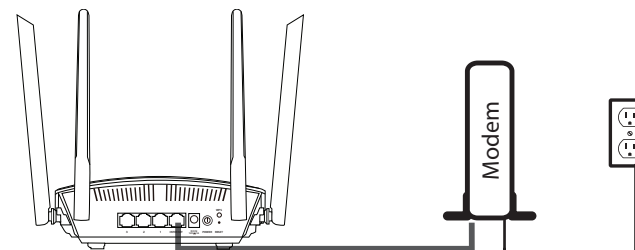
Step 2

Turn off and unplug the power 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.



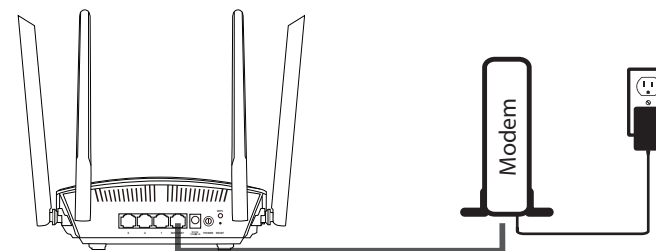
Step 3

Use the Ethernet cable to connect your modem to the port labelled **INTERNET** on the router.



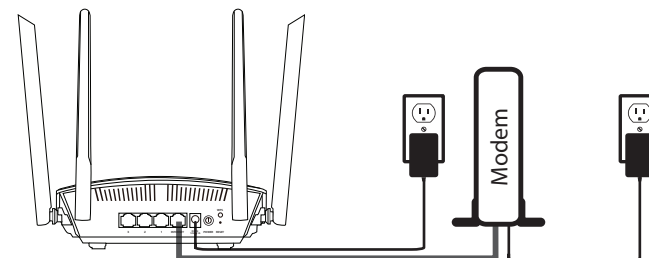
Step 4

Plug in and turn your modem back on and wait approximately one minute before proceeding.



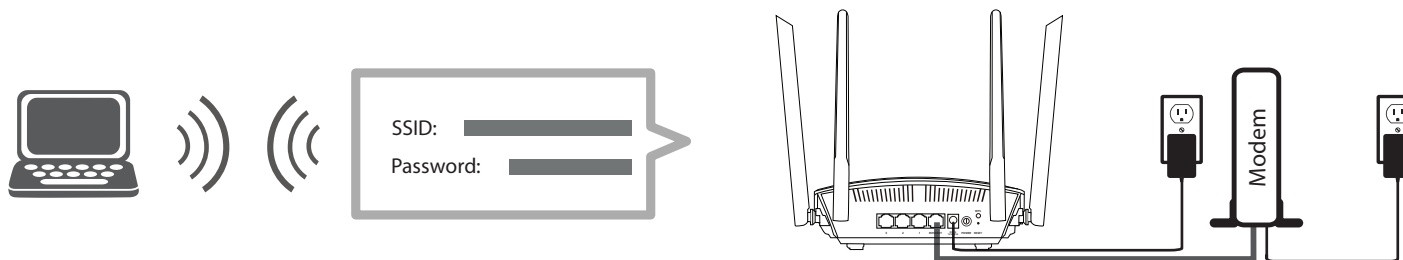
Step 5

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.

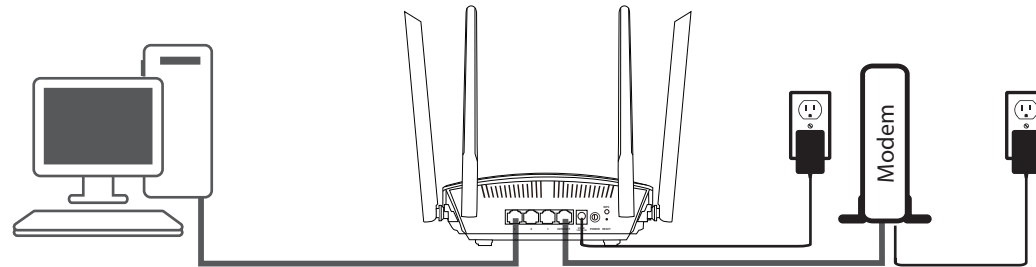


Step 6

If you are configuring the router wirelessly from a PC, connect to the Wi-Fi network printed on the label attached to the bottom of your router or in the Quick Installation Card.



If you are configuring the router 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.



Step 7

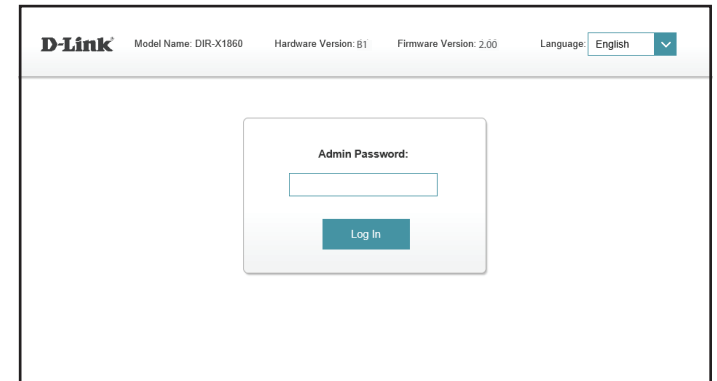
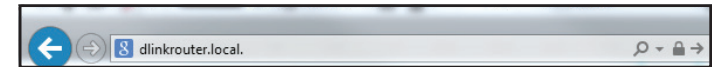
If you are connecting to a broadband service that uses a dynamic connection (not PPPoE), you may be online already. Try opening a web browser and connecting to a website. If the website does not load, proceed to **Setup Wizard** on page 14.

Setup Wizard

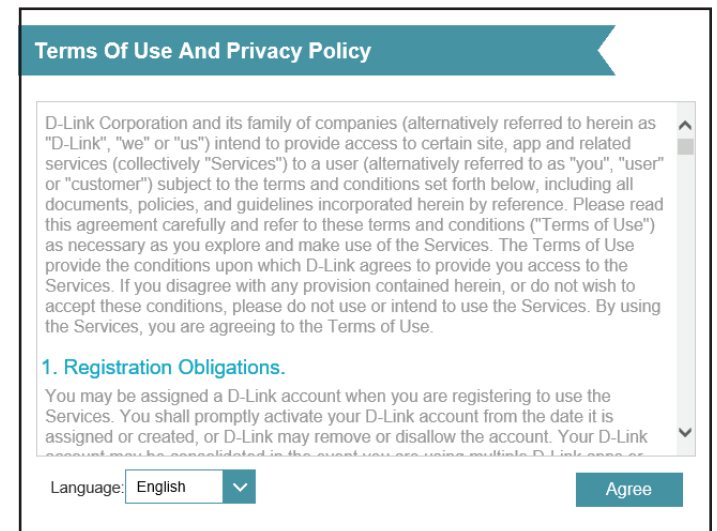
The setup wizard is designed to guide you through a step-by-step process to configure your new DIR-X1860 and connect to the Internet via a wireless setup process.

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**).

If this is your first time logging in and no connection has been established, log in with the password shown on the device label or Quick Install Guide.

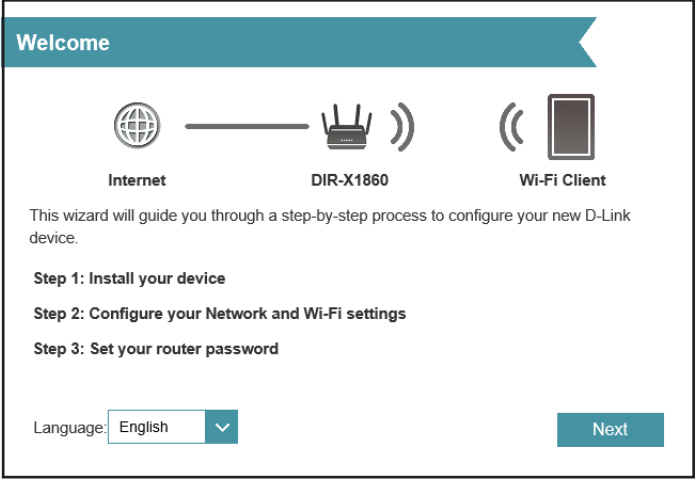


Agree to the Terms of Use and Privacy Policy before proceeding.

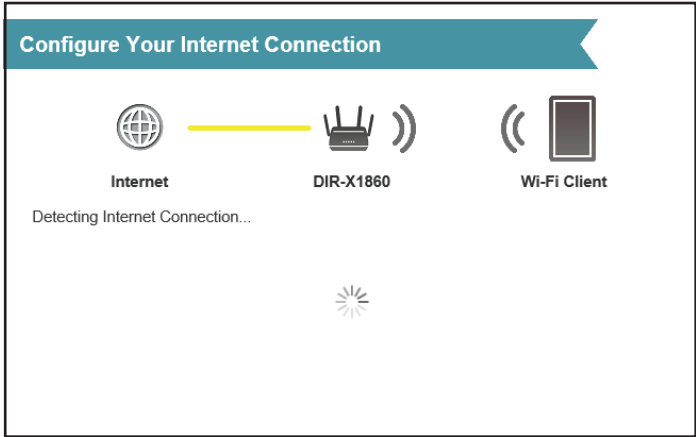


Follow the on-screen instructions to configure your new D-Link router and connect to the Internet.

Click **Next** to continue.



Please wait while your router detects your Internet connection type.



If the router 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).

Click **Next** to continue.

Configure Your Internet Connection

Please select your Internet connection type below:

- ☒ **DHCP Connection (Dynamic IP Address)**
 Choose this option if your Internet connection automatically provides you with an IP Address. Most Cable Modems use this type of connection.
- ☐ **Username/Password Connection (PPPoE)**
 Choose this option if your Internet connection requires a username and password to get online. Most DSL modems use this type of connection.
- ☐ **Static IP Address Connection**
 Choose this option if your Internet Service Provider provided you with IP Address information that has to be manually configured.

Back
Next

If the router detected or you selected **PPPoE**, enter your PPPoE username and password. If you do not have this information, please contact your ISP.

Click **Next** to continue.

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

PPPoE

To setup this Internet connection, you will need to have a User Name from your Internet Service Provider. If you do not have this information, please contact your ISP.

Username:

Password:

Back
Next

If the router detected or you selected **Static**, enter the IP and DNS settings supplied by your ISP. If you do not have this information, please contact your ISP.

Click **Next** to continue.

Static IP



Internet DIR-X1860 Wi-Fi Client

To set up this connection you will need to have a complete list of IP information by your Internet Service Provider. If you have a Static IP connection and do not have this information, please contact your ISP.

IP Address:

Subnet Mask:

Gateway Address:

Primary DNS Address:

Secondary DNS Address:

Back Next

Type in a **Wi-Fi Network Name** and **Wi-Fi Password** to setup your Wi-Fi network. Your wireless clients will need to have this passphrase to be able to connect to your wireless network.

Click **Next** to continue.

Note: The router's Smart Connect feature presents a single wireless network. When connecting clients to an extension network, they will be automatically added to the best band, either 2.4 GHz or 5 GHz. To disable the Smart Connect feature and individually configure 2.4 GHz and 5 GHz networks, refer to **Wireless** on page **56**.

Wi-Fi Settings



Internet DIR-X1860 Wi-Fi Client

To setup a Wi-Fi network you will need to give your Wi-Fi network a name(SSID) and password.

Wi-Fi Network Name:

Wi-Fi Password:

Back Next

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

Click **Next** to continue.

Device Admin Password



Internet DIR-X1860 Wi-Fi Client

By default, your new D-Link device does not have a password configured for administrator access to the Web-based configuration utility. To secure your new device, please create a password below.

Device Admin Password:

[Back](#) [Next](#)

Select your time zone from the drop-down menu.

Click **Next** to continue.

Time Zone



Internet DIR-X1860 Wi-Fi Client

Some essential features require you to set a time zone to work properly. Please select your time zone from the drop-down menu.

Time Zone:

[Back](#) [Next](#)

Keeping your router's firmware up-to-date provides you with the latest protection and new features over the air. Choose whether to keep your device up-to-date automatically or to manage the device updates by yourself.

Click **Next** to continue.

Install Updates Automatically



Allow your device to automatically update to make sure you are always enjoying the latest features and improvements.

☒

Keep my device up to date automatically.

☐

I want to manage the device updates myself.

Back

Next

You will be presented with a summary of your settings.

Click **Next** to finalize the settings or **Back** to make changes.

Summary


Internet


DIR-X1860


Wi-Fi Client

Below is a summary of your Wi-Fi security and device password settings. Please note down your settings and click "Next".

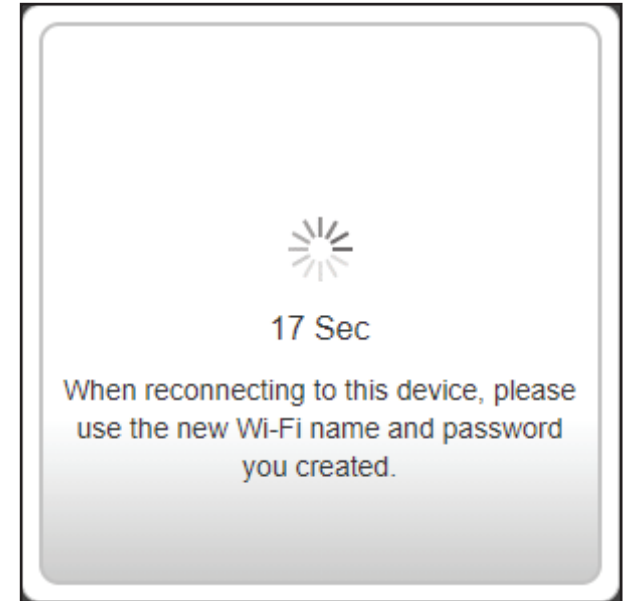
Connection Type:	Dynamic IP (DHCP)
Wi-Fi Network Name:	RouterName
Wi-Fi Password:	AStrongPassword
Device Admin Password:	DevicePassword1

Back

Next

Please wait while the device settings are saved.

Do not turn off or unplug your router during this time.

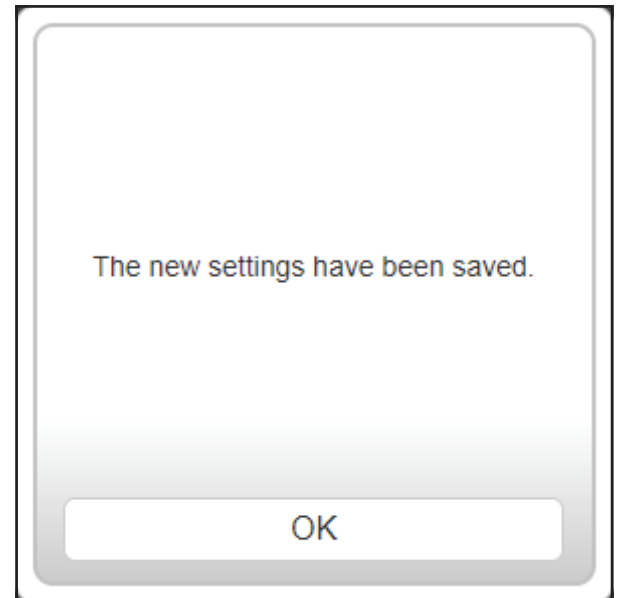


Your new settings have been saved and your router is now configured.

Click **OK** to close the Setup Wizard.

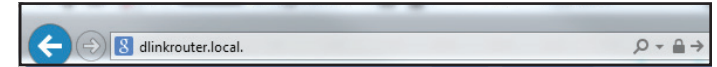
Congratulations, your device has been successfully configured!

You can log in to the configuration utility by inputting the Admin Password.



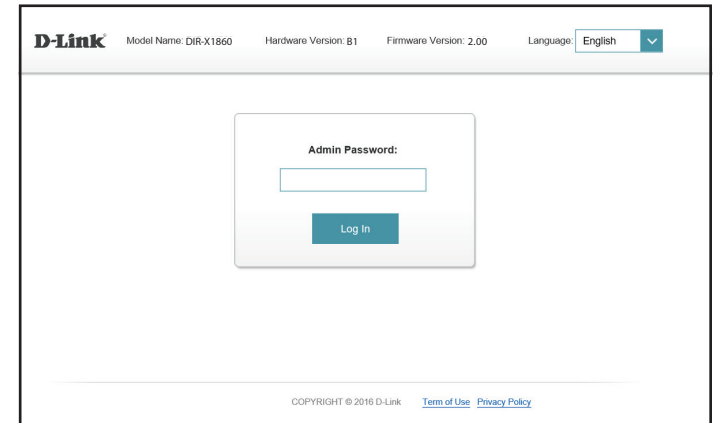
Configuration

To access the configuration utility, open your web-browser 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.

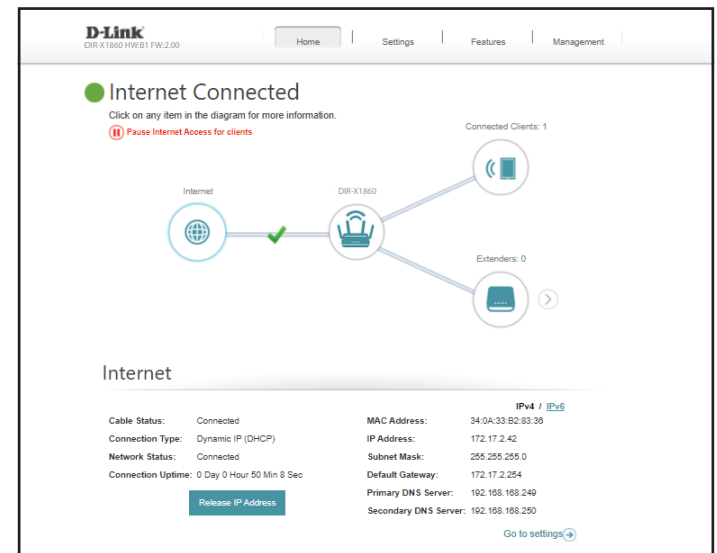
Note: *If you cannot remember your password and cannot log in, use a paperclip to press the recessed **Reset** button on the back of the device for longer than 10 seconds to restore the router to its default settings.*



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**, **Features** and **Management** functions. You can 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 your Wi-Fi network 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. Refer to the following pages for a description of each section.



Internet

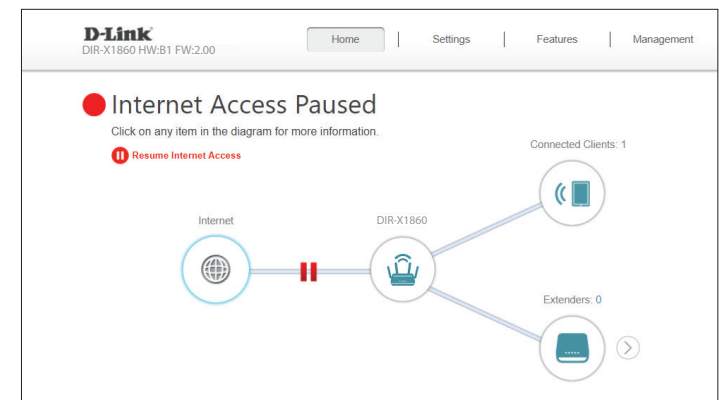
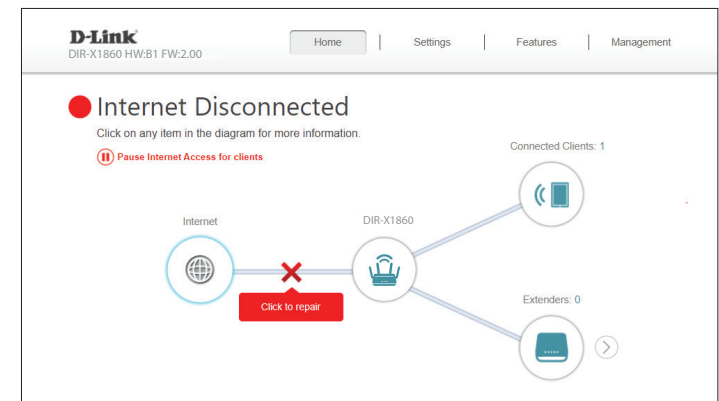
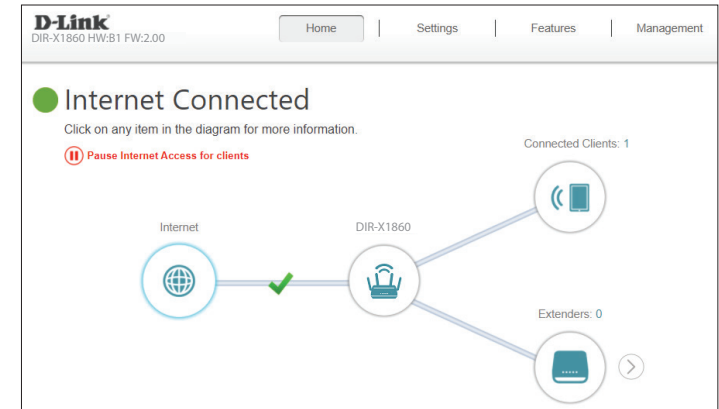
Click on the **Internet** icon to bring up more details about your Internet connection. Click **IPv4** or **IPv6** to see details of the IPv4 and IPv6 connection respectively.

The Home page displays whether or not the DIR-X1860 is currently connected to the Internet. If it is disconnected, click **Click to repair** to bring up the setup wizard, refer to **Wizard** on page 28 for more information.

Click **Release IP Address** to release the current IP address and disconnect from the Internet. If you wish to reconnect the Internet, click **Renew IP Address**.

Click **Pause Internet Access for clients** to temporarily disconnect the Internet connection, alternatively click **Resume Internet Access** to resume the Internet access if previously paused.

To reconfigure the Internet settings, click **Go to settings** at the bottom-right.



DIR-X1860

Click on the **DIR-X1860** icon to view details about the DIR-X1860's wireless and local network settings. This includes IPv4 and IPv6 local networks, and Wi-Fi information.

This overview is only informational. To configure these sections, refer to the corresponding configuration sections in this manual.



Connected Clients

Click on the **Connected Clients** icon to view details about the connected clients to the router and their 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: Displays the name of this client. You can edit the client's name here.

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.

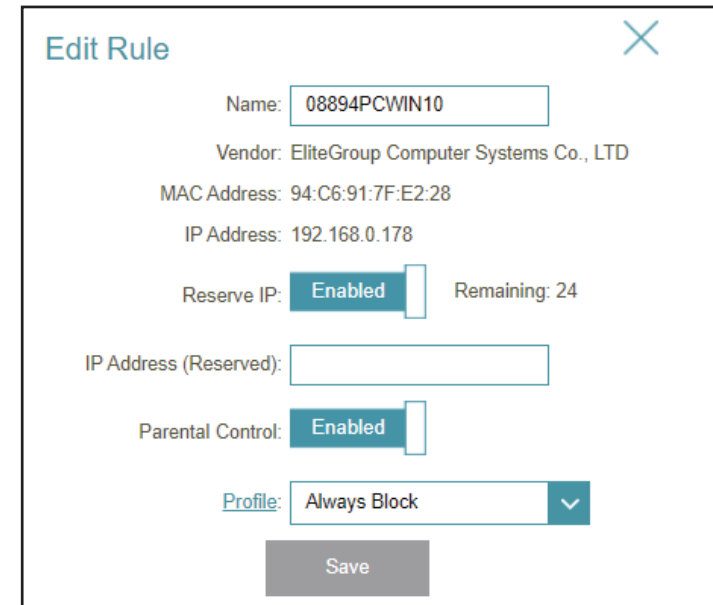
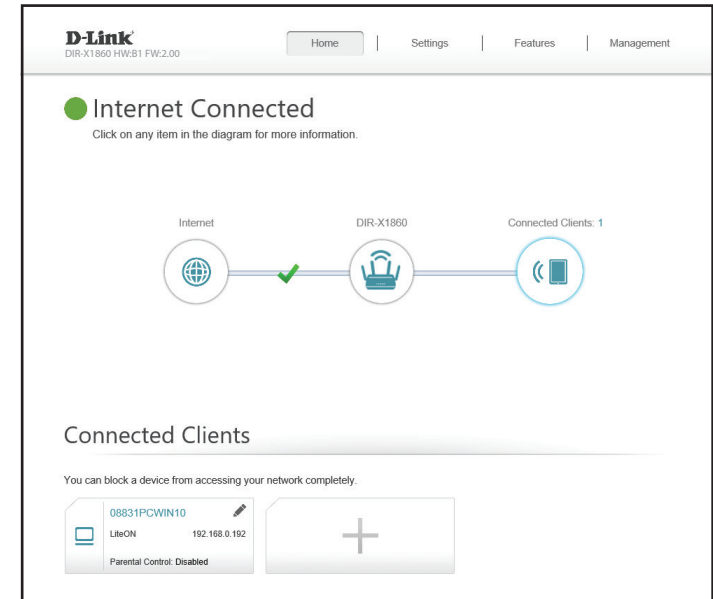
Reserve IP: Enable to reserve an IP address for this client.

IP Address (Reserved): Specify an IP address for the DHCP server to assign to this client.

Parental Control: Enable or disable parental control to allow or block access to the network for this user.

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

Click **Save** when you are done.



Extenders

Click on the **Extenders** icon to view details about all additional devices in your Mesh Wi-Fi network.

To edit an extender's name, click the pencil icon in the top-right of the box of the extender that you want to rename.

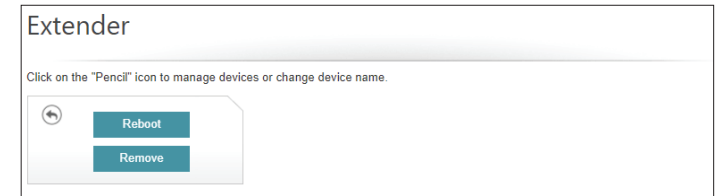
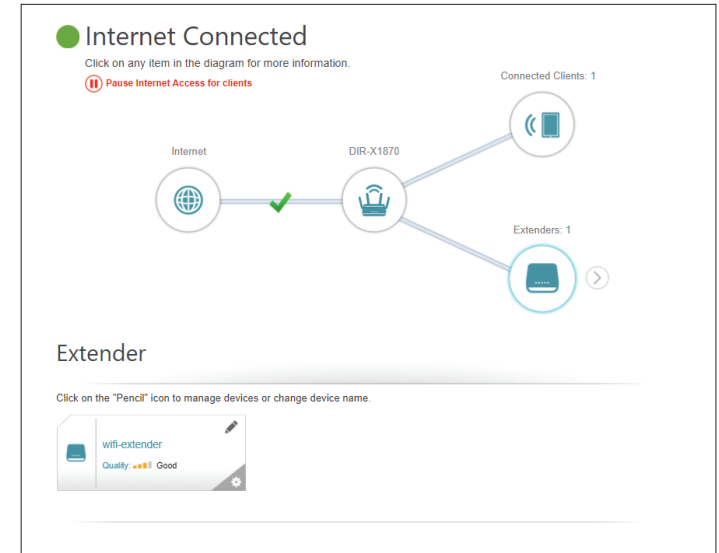
To reboot an extender, click the settings icon in the bottom-right of the extenders's box and click **Reboot**.

To remove an extender from your Mesh Wi-Fi network, click the settings icon in the bottom-right of the extenders's box and click **Remove**.

Name: Enter a name for the DIR-X1860.

MAC Address: Displays the MAC address of the DIR-X1860.

Click **Save** when you are done.



The screenshot shows the 'Edit Name' dialog box. It has a title 'Edit Name' and a close button (X). The form contains a 'Name:' field with the value 'wifi-extender' and a 'MAC Address:' field with the value 'F0:B4:D2:20:B1:66'. At the bottom is a 'Save' button.

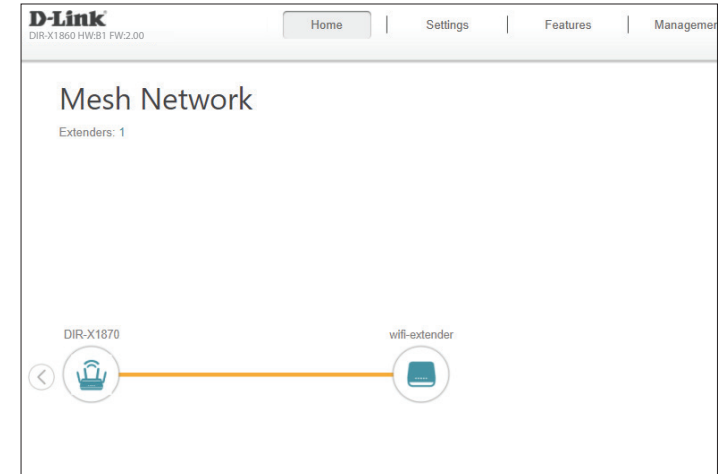
Mesh Network

Click on the **Extenders** icon to view details about all additional devices in your Mesh Wi-Fi network.

To edit an extender's name, click the pencil icon in the top-right of the box of the extender that you want to rename.

To reboot an extender, click the settings icon in the bottom-right of the extenders's box and click **Reboot**.

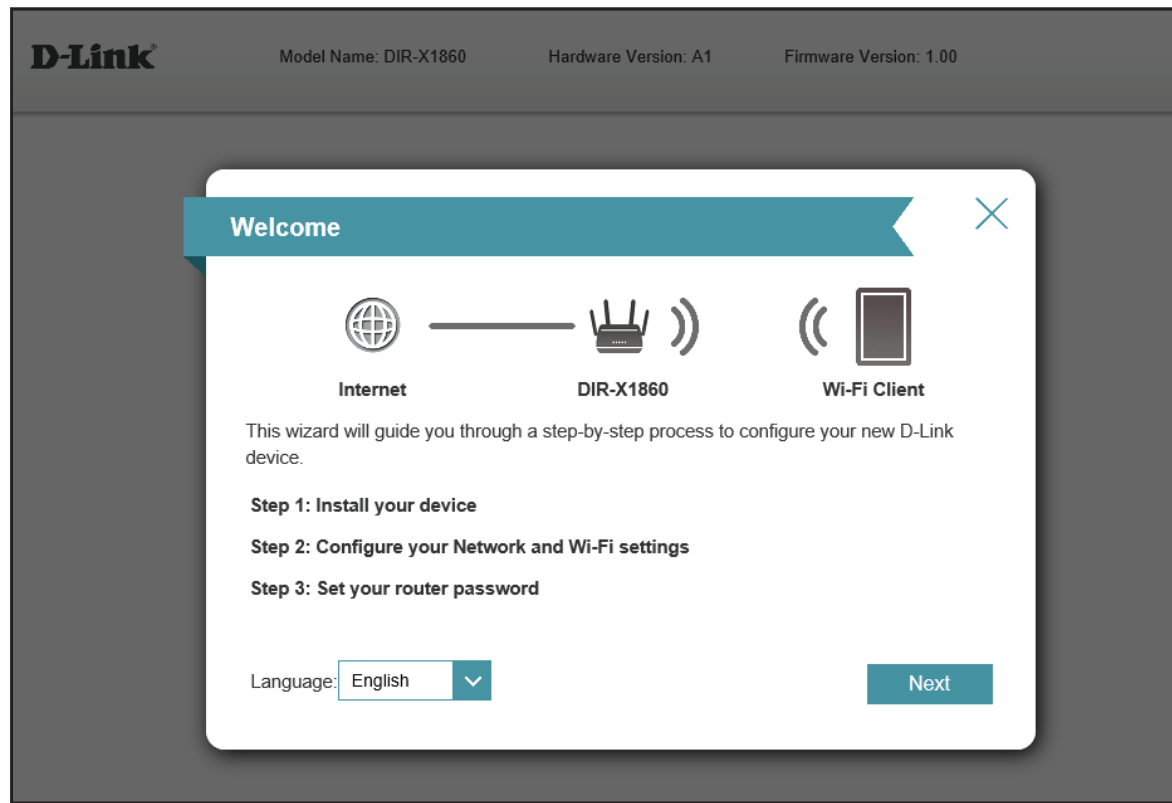
To remove an extender from your Mesh Wi-Fi network, click the settings icon in the bottom-right of the extenders's box and click **Remove**.



Settings Wizard

In the Settings menu on the bar at 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 **Setup Wizard** on page **14** for details.

Note: When the Wizard is opened, the router will disconnect from the internet. This Wizard will also launch when clicking the **Click to Repair** button when no Internet connection is detected.



Internet - IPv4

In the Settings menu on the bar at the top of the page, click **Internet** to see the Internet configuration options for the IPv4 connection details.

To configure the IPv6 Internet and network connection details, click the **IPv6** link. Refer to **Internet - IPv6** on page 39

To configure the VLAN connection details, click the **VLAN** link. Refer to **Internet - VLAN** on page 54

Click **Save** at any time to save the changes you have made on this page.

My Internet Connection is

Choose your Internet connection type from the drop-down menu. You 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 **IPv4 - Dynamic IP (DHCP)** refer to page 30

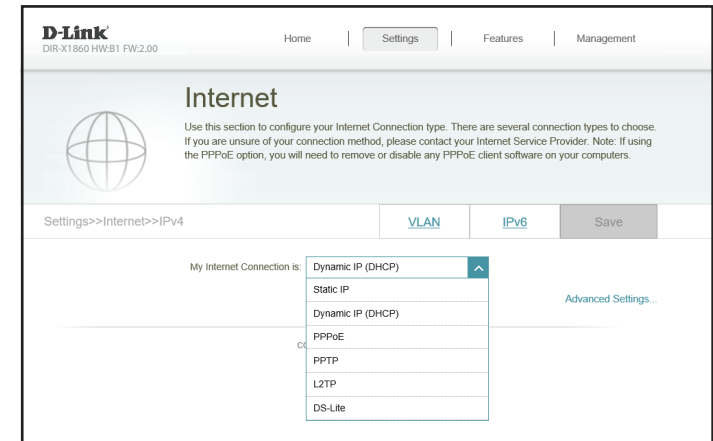
For **IPv4 - Static IP** refer to page 31

For **IPv4 - PPPoE** refer to page 32

For **IPv4 - PPTP** refer to page 34

For **IPv4 - L2TP** refer to page 36

For **IPv4 - DS-Lite** refer to page 38



IPv4 - 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. Click **Save** at any time to save the changes you have made on this page.

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 Server** Enter the primary DNS server IP address assigned by your ISP. This address is usually obtained automatically from your ISP.
- Secondary DNS Server** Enter the secondary DNS server IP address assigned by your ISP. This 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 Clone** The default MAC address is set to the Internet port's physical interface 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.

The screenshot shows the D-Link web interface for the DIR-X1860 router. The top navigation bar includes 'Home', 'Settings', 'Features', and 'Management'. The 'Settings' tab is active, and the breadcrumb trail is 'Settings > Internet > IPv4'. The 'Internet' section is titled 'Internet' and includes a globe icon and a note about connection types. Below this, there are tabs for 'VLAN', 'IPv6', and 'Save'. The 'My Internet Connection is:' dropdown menu is set to 'Dynamic IP (DHCP)'. To the right of this dropdown is a link for 'Advanced Settings...'. Below the dropdown, there are input fields for 'Host Name', 'Primary DNS Server', 'Secondary DNS Server', and 'MTU' (set to 1500). At the bottom, there is a 'MAC Address Clone' field with a dropdown menu currently showing '<< MAC Address'.

IPv4 - Static IP

Select **Static IP** if your IP information is provided by your Internet Service Provider (ISP). Click **Save** at any time to save the changes you have made on this page.

- 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 Server

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

D-Link

DIR-X1860 HW:B1 FW:2.00

Home

Settings

Features

Management

Internet

Use this section to configure your Internet Connection type. There are several connection types to choose. If you are unsure of your connection method, please contact your Internet Service Provider. Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.

Settings>>Internet>>IPv4

VLAN

IPv6

Save

My Internet Connection is:

Static IP

IP Address:

Subnet Mask:

Default Gateway:

Primary DNS Server:

Advanced Settings...

Advanced Settings...

- Secondary DNS Server

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

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

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

Advanced Settings...

Secondary DNS Server:

MTU:

1500

MAC Address Clone:

<< MAC Address

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IPv4 - PPPoE

Select **PPPoE** if your ISP provides and requires you to enter a PPPoE username and password in order to connect to the Internet. Click **Save** at any time to save the changes you have made on this page.

- Username

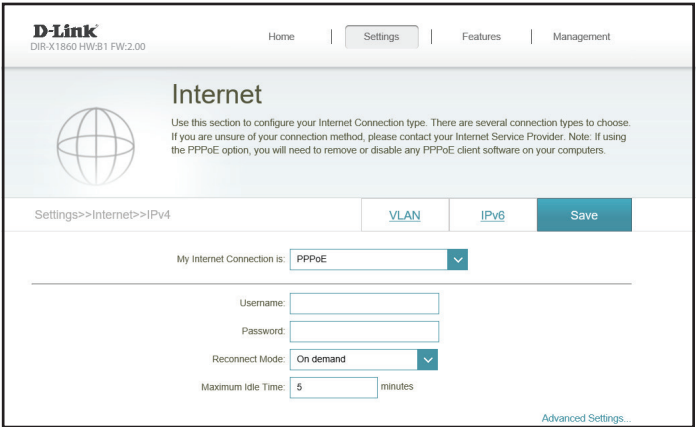
Enter the username provided by your ISP.
- Password

Enter the password provided by your ISP.
- Reconnect Mode

Select either **Always on**, **On Demand**, or **Manual**.

Maximum Idle Time

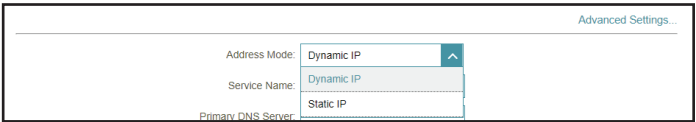
Configurable when **On Demand** is selected. Enter a maximum idle time during which the Internet connection is maintained during inactivity. To disable this feature, select **Always on** as the reconnect mode.



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**.



Advanced Settings... - Dynamic IP	
Address Mode	Shows your chosen address mode.
Service Name	Enter the ISP service name (optional)
Primary DNS Server	Enter the primary DNS server IP address assigned by your ISP.
Secondary DNS Server	Enter the secondary DNS server IP address assigned by your ISP.
MTU	Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP.
MAC Address Clone	The default MAC address is set to the Internet port's physical interface 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.

Advanced Settings...

Address Mode: Dynamic IP

Service Name:

Primary DNS Server:

Secondary DNS Server:

MTU: 1492

MAC Address Clone: << MAC Address

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Advanced Settings... - Static IP	
Address Mode	Displays your chosen address mode.
IP Address	Enter the IP address provided by your ISP.
Service Name	Enter the ISP service name (optional)
Primary DNS Server	Enter the primary DNS server IP address assigned by your ISP.
Secondary DNS Server	Enter the secondary DNS server IP address assigned by your ISP.
MTU	Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP.
MAC Address Clone	The default MAC address is set to the Internet port's physical interface 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.

Advanced Settings...

Address Mode: Static IP

IP Address:

Service Name:

Primary DNS Server:

Secondary DNS Server:

MTU: 1492

MAC Address Clone: << MAC Address

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IPv4 - 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. Click **Save** at any time to save the changes you have made on this page.

PPTP Server Enter the PPTP server IP address provided by your 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 Time Configurable when **On Demand** is selected. Enter a maximum idle time during which the Internet connection is maintained during inactivity. To disable this feature, select **Always on** as the reconnect mode.

The screenshot shows the 'Internet' configuration page for a D-Link DIR-X1860 router. The breadcrumb trail is 'Settings > Internet > IPv4'. There are tabs for 'VLAN', 'IPv6', and a 'Save' button. The 'My Internet Connection is:' dropdown is set to 'PPTP'. Below this, there are input fields for 'PPTP Server:', 'Username:', and 'Password:'. The 'Reconnect Mode:' dropdown is set to 'Always on'. A link for 'Advanced Settings...' is at the bottom right.

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**.

This screenshot shows the 'Advanced Settings...' section for IPv4. It contains three dropdown menus: 'Address Mode:' (set to 'Dynamic IP'), 'Primary DNS Server:' (set to 'Dynamic IP'), and 'Secondary DNS Server:' (set to 'Static IP'). A link for 'Advanced Settings...' is at the top right.

Advanced Settings... - Dynamic IP

Address Mode

Shows your chosen address mode.

Primary DNS Server

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

Secondary DNS Server

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

MTU

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

Advanced Settings...

Address Mode:Dynamic IP

Primary DNS Server:

Secondary DNS Server:

MTU:1400

Advanced Settings... - Static IP

Address Mode

Displays your chosen address mode.

PPTP IP Address

Enter the IP address provided by your ISP.

PPTP Subnet Mask

Enter the subnet mask provided by your ISP.

PPTP Gateway IP Address

Enter the gateway IP address provided by your ISP.

Primary DNS Server

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

Secondary DNS Server

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

MTU

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

Advanced Settings...

Address Mode:Static IP

PPTP IP Address:

PPTP Subnet Mask:

PPTP Gateway IP Address:

Primary DNS Server:

Secondary DNS Server:

MTU:1400

IPv4 - 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. Click **Save** at any time to save the changes you have made on this page.

L2TP Server Enter the L2TP server IP address provided by your 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 Time Configurable when **On Demand** is selected. Enter a maximum idle time during which the Internet connection is maintained during inactivity. To disable this feature, select **Always on** as the reconnect mode.

The screenshot shows the 'Internet' configuration page for a D-Link router. The breadcrumb trail is 'Settings > Internet > IPv4'. There are tabs for 'VLAN' and 'IPv6', and a 'Save' button. The 'My Internet Connection is:' dropdown is set to 'L2TP'. Below this, there are input fields for 'L2TP Server', 'Username', and 'Password'. The 'Reconnect Mode' dropdown is set to 'On demand'. The 'Maximum Idle Time' is set to '5 minutes'. A link for 'Advanced Settings...' is at the bottom right.

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**.

The screenshot shows the 'Advanced Settings...' page for the IPv4 configuration. It includes dropdown menus for 'Address Mode' (set to 'Dynamic IP'), 'Primary DNS Server' (set to 'Dynamic IP'), and 'Secondary DNS Server' (set to 'Static IP').

Advanced Settings... - Dynamic IP

Address Mode

Shows your chosen address mode.

Primary DNS Server

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

Secondary DNS Server

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

MTU

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

Advanced Settings...

Address Mode:Dynamic IP

Primary DNS Server:

Secondary DNS Server:

MTU:1400

Advanced Settings... - Static IP

Address Mode

Shows your chosen address mode.

L2TP IP Address

Enter the IP address provided by your ISP.

L2TP Subnet Mask

Enter the subnet mask provided by your ISP.

L2TP Gateway IP Address

Enter the gateway IP address provided by your ISP.

Primary DNS Server

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

Secondary DNS Server

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

MTU

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

Advanced Settings...

Address Mode:Static IP

L2TP IP Address:

L2TP Subnet Mask:

L2TP Gateway IP Address:

Primary DNS Server:

Secondary DNS Server:

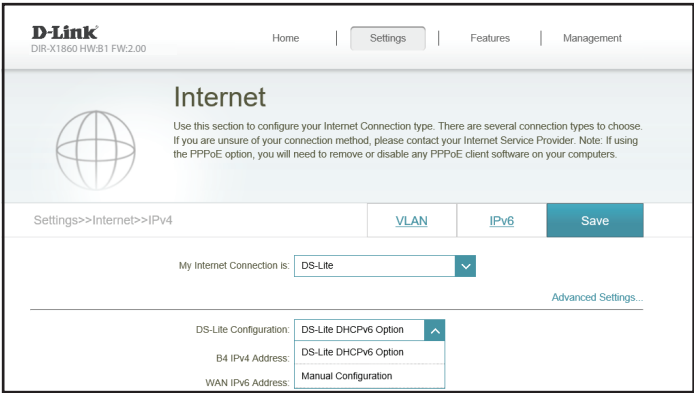
MTU:1400

IPv4 - DS-Lite

DS-Lite is an IPv6 connection type. After selecting DS-Lite, the following parameters will be available for configuration. Click **Save** at any time to save the changes you have made on this page.

Advanced Settings...

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



Advanced Settings... - DS-Lite DHCPv6 Option

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

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

IPv6 Default WAN Gateway Once connected, the IPv6 WAN default gateway address will be displayed here.



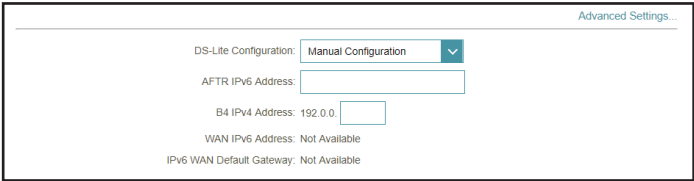
Advanced Settings... - Manual Configuration Option

AFTR IPv6 Address Enter the AFTR IPv6 address used here.

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

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

IPv6 WAN Default Gateway Once connected, the IPv6 WAN default gateway address will be displayed here.



Internet - IPv6

In the Settings menu on the bar at the top of the page, click **Internet** to see the Internet configuration options for the IPv4 connection details, then click the **IPv6** link to access the configuration options for the IPv6 connection details.

To configure the IPv4 Internet and network connection details, click the **IPv4** link. Refer to **Internet - IPv4** on page 29
To configure the VLAN connection details, click the **VLAN** link. Refer to **Internet - VLAN** on page 54

Click **Save** at any time to save the changes you have made on this page.

My Internet Connection is

Choose your Internet connection type from the drop-down menu. You will be presented with the appropriate options for your connection type.

For **IPv6 - Auto Detection** refer to page 40

For **IPv6 - Static IPv6** refer to page 42

For **IPv6 - Auto Configuration (SLAAC/DHCPv6)** refer to page 44

For **IPv6 - PPPoE** refer to page 47

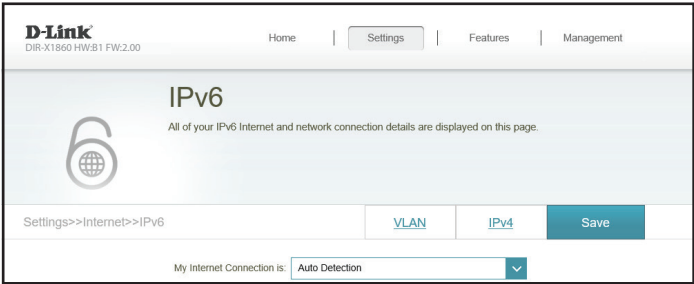
For **IPv6 - 6rd** refer to page 51

For **IPv6 - Local Connectivity Only** refer to page 53

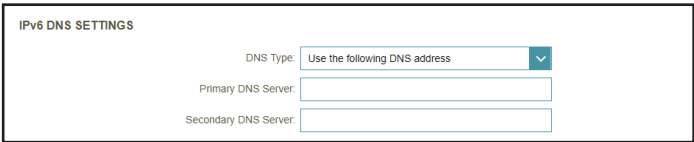
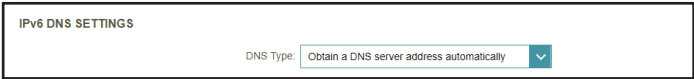


IPv6 - Auto Detection

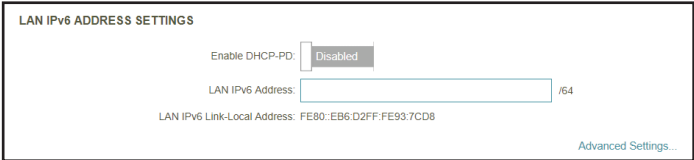
Select **Auto Detection** to automatically detect the IPv6 connection method used by your Internet Service Provider (ISP). If Auto Detection fails, you can manually select another IPv6 connection type. Click **Save** at any time to save the changes you have made on this page.



IPv6 DNS Settings	
DNS Type	Select either Obtain DNS server address automatically or Use the following DNS address .
Primary DNS Server	If you selected Use the following DNS address , enter the primary DNS server address.
Secondary DNS Server	If you selected Use the following DNS address , enter the secondary DNS server address.



LAN IPv6 Address Settings	
Enable DHCP-PD	Enable or disable DHCP Prefix Delegation.
LAN IPv6 Link-Local Address	Displays the router's LAN link-local address.
If Enable DHCP-PD is disabled, these additional parameters are available for configuration:	
LAN IPv6 Address	Enter a valid LAN IPv6 address.
LAN IPv6 Link-Local Address	Displays the router's LAN link-local address.



Advanced Settings... - Address Autoconfiguration Settings

- Enable Automatic IPv6 Address Assignment

Enable or disable the Automatic IPv6 Address Assignment feature.
- Enable Automatic DHCP-PD in LAN

Enable or disable DHCP-PD for other IPv6 routers connected to the LAN interface.
- Autoconfiguration Type

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

If you selected **SLAAC+RDNSS** or **SLAAC+Stateless DHCP** as the Autoconfiguration Type:

- Router Advertisement Lifetime

Enter the router advertisement lifetime (in minutes).

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

- IPv6 Address Range (Start)

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

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

Advanced Settings...

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:

Enabled

Enable Automatic DHCP-PD in LAN:

Enabled

Autoconfiguration Type:

SLAAC+Stateless DHCP

Router Advertisement Lifetime:

60

minutes

Advanced Settings...

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:

Enabled

Enable Automatic DHCP-PD in LAN:

Enabled

Autoconfiguration Type:

SLAAC+RDNSS

Router Advertisement Lifetime:

60

minutes

Advanced Settings...

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:

Enabled

Enable Automatic DHCP-PD in LAN:

Enabled

Autoconfiguration Type:

Stateful DHCPv6

IPv6 Address Range (Start):

mm: 00

1

IPv6 Address Range (End):

mm: 00

99

IPv6 - Static IPv6

Select **Static IP** if your IPv6 information is provided by your Internet Service Provider (ISP). Click **Save** at any time to save the changes you have made on this page.

- Use Link-Local Address

Enable or disable link-local address use.
- IPv6 Address

Configurable when **Use Link-Local Address** is disabled. Enter the address supplied by your ISP.
- Subnet Prefix Length

Configurable when **Use Link-Local Address** is disabled. Enter the subnet prefix length supplied by your ISP.
- Default Gateway

Enter the default gateway for your IPv6 connection.
- Primary DNS Server

Enter the primary DNS server address.
- Secondary DNS Server

Enter the secondary DNS server address.

LAN IPv6 Address Settings

- LAN IPv6 Address

Enter the LAN (local) IPv6 address for the router.
- LAN IPv6 Link-Local Address

Displays the router's LAN link-local address.



Advanced Settings... - Address Autoconfiguration Settings

- Enable Automatic IPv6 Address Assignment

Autoconfiguration Type
- Enable or disable the Automatic IPv6 Address Assignment feature.

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

If you selected **SLAAC+RDNSS** or **SLAAC+Stateless DHCP** as the Autoconfiguration Type:

- Router Advertisement Lifetime

Enter the router advertisement lifetime (in minutes).

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

- IPv6 Address Range (Start)

IPv6 Address Range (End)

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

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

Enter the IPv6 address lifetime (in minutes).

Advanced Settings...

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Autoconfiguration Type: SLAAC+Stateless DHCP

Router Advertisement Lifetime: 30 minutes

Advanced Settings...

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Autoconfiguration Type: SLAAC+RDNSS

Router Advertisement Lifetime: 30 minutes

Advanced Settings...

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Autoconfiguration Type: Stateful DHCPv6

IPv6 Address Range (Start): ffff: 00

IPv6 Address Range (End): ffff: 00

IPv6 Address Lifetime: 10080 minutes

IPv6 - Auto Configuration (SLAAC/DHCPv6)

Select **Auto Configuration** if your ISP assigns your IPv6 address when your router requests one from the ISP's server. Some ISPs require you to adjust settings on your side before your router can connect to the IPv6 Internet. Click **Save** at any time to save the changes you have made on this page.

IPv6 DNS Settings

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

Primary DNS Server If you selected **Use the following DNS address**, enter the primary DNS server address.

Secondary DNS Server If you selected **Use the following DNS address**, enter the secondary DNS server address.

LAN IPv6 Address Settings

Enable DHCP-PD Enable or disable prefix delegation services.

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

*If **Enable DHCP-PD** is disabled, these additional parameters are available for configuration:*

LAN IPv6 Address Enter a valid LAN IPv6 address.

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

Advanced Settings... - Address Autoconfiguration Settings

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

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

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

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

If you selected **SLAAC+RDNSS** or **SLAAC+Stateless DHCP** as the Autoconfiguration Type:

Router Advertisement Lifetime Enter the router advertisement lifetime (in minutes).

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

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

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

Advanced Settings...

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Enable Automatic DHCP-PD in LAN: ☒ Enabled

Autoconfiguration Type: SLAAC+Stateless DHCP

Router Advertisement Lifetime: 30 minutes

Advanced Settings...

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Enable Automatic DHCP-PD in LAN: ☒ Enabled

Autoconfiguration Type: SLAAC+RDNSS

Router Advertisement Lifetime: 30 minutes

Advanced Settings...

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Enable Automatic DHCP-PD in LAN: ☒ Enabled

Autoconfiguration Type: Stateful DHCPv6

IPv6 Address Range (Start): :::: 00

IPv6 Address Range (End): :::: 00

Advanced Settings... - Address Autoconfiguration Settings

- Enable Automatic IPv6 Address Assignment

Enable or disable the Automatic IPv6 Address Assignment feature.
- If **Enable DHCP-PD** is disabled in the previous LAN IPv6 Address Settings:

Autoconfiguration Type

Select **SLAAC+RDNSS**, **SLAAC+Stateless DHCP**, or **Stateful DHCPv6**.
- If you selected **SLAAC+RDNSS** or **SLAAC+Stateless DHCP** as the Autoconfiguration Type:

Router Advertisement Lifetime

Enter the router advertisement lifetime (in minutes).
- If you selected **Stateful DHCPv6** as the Autoconfiguration Type:

IPv6 Address Range (Start)

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

IPv6 Address Range (End)

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

IPv6 Address Lifetime

Enter the IPv6 address lifetime (in minutes).

Advanced Settings...

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Autoconfiguration Type: SLAAC+Stateless DHCP

Router Advertisement Lifetime: 30 minutes

Advanced Settings...

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Autoconfiguration Type: SLAAC+RDNSS

Router Advertisement Lifetime: 30 minutes

Advanced Settings...

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Autoconfiguration Type: Stateful DHCPv6

IPv6 Address Range (Start): ffff:00

IPv6 Address Range (End): ffff:00

IPv6 Address Lifetime: 10080 minutes

IPv6 - PPPoE

Select **PPPoE** if your ISP provides and requires you to enter a PPPoE username and password in order to connect to the Internet. Click **Save** at any time to save the changes you have made on this page.

- PPPoE Session** Create a new PPPoE session.
- Username** Enter the username provided by your ISP.
- Password** Enter the password provided by your ISP.
- Address Mode** Select either **Dynamic IP** or **Static IP**.
- IP Address** Configurable if Static IP is chosen. Enter the IP address provided by your ISP.
- 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.

The screenshot shows the D-Link web interface for the DIR-X1860 router. The top navigation bar includes 'Home', 'Settings', 'Features', and 'Management'. The main heading is 'IPv6' with a sub-note: 'All of your IPv6 Internet and network connection details are displayed on this page.' Below this, there's a breadcrumb trail: 'Settings > Internet > IPv6'. There are three tabs: 'VLAN', 'IPv4', and 'Save'. The 'Save' tab is active. The configuration form includes the following fields:

- My Internet Connection is:** A dropdown menu set to 'PPPoE'.
- PPPoE Session:** A dropdown menu set to 'Create a new session'.
- Username:** An empty text input field.
- Password:** An empty text input field.
- Address Mode:** A dropdown menu set to 'Static IP'.
- IP Address:** An empty text input field.
- Service Name:** An empty text input field.
- Reconnect Mode:** A dropdown menu set to 'Always on'.
- MTU:** A text input field containing '1492' followed by 'bytes'.

IPv6 DNS Settings	
DNS Type	Select either Obtain DNS server address automatically or Use the following DNS address .
Primary DNS Server	If you selected Use the following DNS address , enter the primary DNS server address.
Secondary DNS Server	If you selected Use the following DNS address , enter the secondary DNS server address.

IPv6 DNS SETTINGS

DNS Type: Obtain a DNS server address automatically

IPv6 DNS SETTINGS

DNS Type: Use the following DNS address

Primary DNS Server:

Secondary DNS Server:

LAN IPv6 Address Settings	
Enable DHCP-PD	Enable or disable prefix delegation services.
LAN IPv6 Link-Local Address	Displays the router's LAN link-local address.
If Enable DHCP-PD is disabled, these additional parameters are available for configuration:	
LAN IPv6 Address	Enter a valid LAN IPv6 address.
LAN IPv6 Link-Local Address	Displays the router's LAN link-local address.

LAN IPv6 ADDRESS SETTINGS

Enable DHCP-PD: Enabled

LAN IPv6 Link-Local Address: FE80::EB6:D2FF:FE93:7CD8

Advanced Settings...

LAN IPv6 ADDRESS SETTINGS

Enable DHCP-PD: Disabled

LAN IPv6 Address: /64

LAN IPv6 Link-Local Address: FE80::EB6:D2FF:FE93:7CD8

Advanced Settings...

Advanced Settings... - Address Autoconfiguration Settings

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

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

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

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

If you selected **SLAAC+RDNSS** or **SLAAC+Stateless DHCP** as the Autoconfiguration Type:

Router Advertisement Lifetime Enter the router advertisement lifetime (in minutes).

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

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

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

Advanced Settings...

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Enable Automatic DHCP-PD in LAN: ☒ Enabled

Autoconfiguration Type: SLAAC+Stateless DHCP

Router Advertisement Lifetime: 30 minutes

Advanced Settings...

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Enable Automatic DHCP-PD in LAN: ☒ Enabled

Autoconfiguration Type: SLAAC+RDNSS

Router Advertisement Lifetime: 30 minutes

Advanced Settings...

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Enable Automatic DHCP-PD in LAN: ☒ Enabled

Autoconfiguration Type: Stateful DHCPv6

IPv6 Address Range (Start): ::::: 00

IPv6 Address Range (End): ::::: 00

Advanced Settings... - Address Autoconfiguration Settings

- Enable Automatic IPv6 Address Assignment

Enable or disable the Automatic IPv6 Address Assignment feature.
- If **Enable DHCP-PD** is disabled in the previous LAN IPv6 Address Settings:

Autoconfiguration Type

Select **SLAAC+RDNSS**, **SLAAC+Stateless DHCP**, or **Stateful DHCPv6**.
- If you selected **SLAAC+RDNSS** or **SLAAC+Stateless DHCP** as the Autoconfiguration Type:

Router Advertisement Lifetime

Enter the router advertisement lifetime (in minutes).
- If you selected **Stateful DHCPv6** as the Autoconfiguration Type:

IPv6 Address Range (Start)

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

IPv6 Address Range (End)

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

IPv6 Address Lifetime

Enter the IPv6 address lifetime (in minutes).

Advanced Settings...

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Autoconfiguration Type: SLAAC+Stateless DHCP

Router Advertisement Lifetime: 30 minutes

Advanced Settings...

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Autoconfiguration Type: SLAAC+RDNSS

Router Advertisement Lifetime: 30 minutes

Advanced Settings...

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Autoconfiguration Type: Stateful DHCPv6

IPv6 Address Range (Start): ffff:00

IPv6 Address Range (End): ffff:00

IPv6 Address Lifetime: 10080 minutes

IPv6 - 6rd

In this section the user can configure the IPv6 **6rd** connection settings. Click **Save** at any time to save the changes you have made on this page.

- Assign IPv6 Prefix

Currently unsupported.
- Primary DNS Server

Enter the primary DNS server address.
- Secondary DNS Server

Enter the secondary DNS server address.



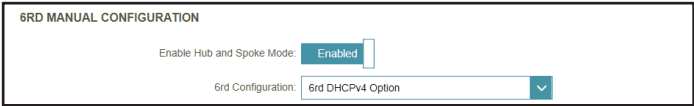
- 6rd Manual Configuration

Enable Hub and Spoke Mode

Enable this option if you want to minimize the number of routes to the destination 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.



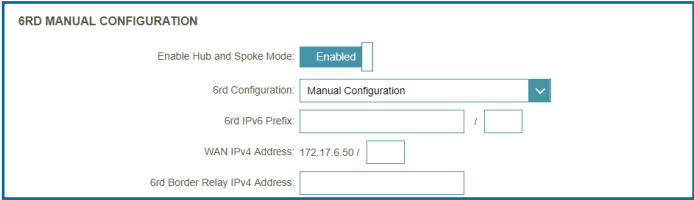
If you selected **Manual Configuration** as the 6rd Configuration:

- 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 IPv4 Address

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



LAN IPv6 Address Settings

- LAN IPv6 Address

Displays the router’s LAN IPv6 Address link-local address.
- LAN IPv6 Link-Local Address

Displays the router’s LAN link-local address.

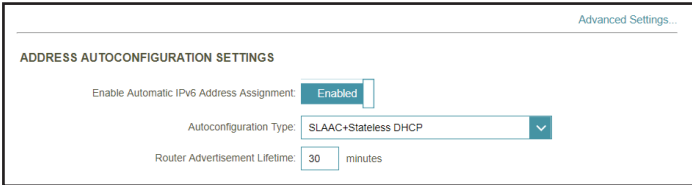


Advanced Settings... - Address Autoconfiguration Settings

- Enable Automatic IPv6 Address Assignment

Enable or disable the Automatic IPv6 Address Assignment feature.
- Autoconfiguration Type

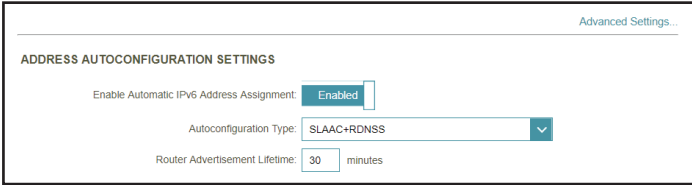
Select **SLAAC+RDNSS**, **SLAAC+Stateless DHCP**, or **Stateful DHCPv6**.



If you selected **SLAAC+RDNSS** or **SLAAC+Stateless DHCP** as the Autoconfiguration Type:

- Router Advertisement Lifetime

Enter the router advertisement lifetime (in minutes).



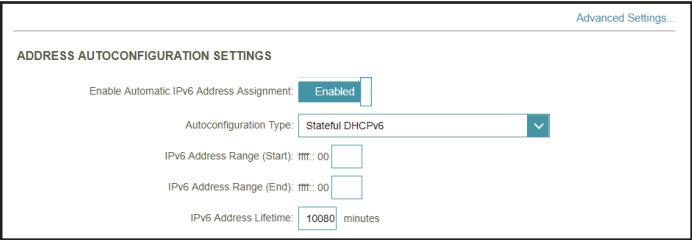
If you selected **Stateful DHCPv6** as the Autoconfiguration Type:

- IPv6 Address Range (Start)

Enter the starting IPv6 address for the DHCP server’s IPv6 assignment.
- IPv6 Address Range (End)

Enter the ending IPv6 address for the DHCP server’s IPv6 assignment.
- IPv6 Address Lifetime

Enter the IPv6 address lifetime (in minutes).



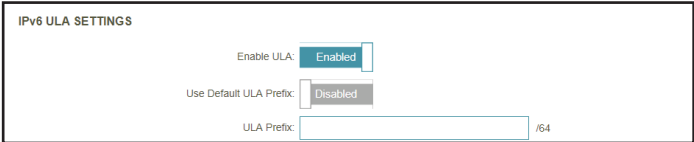
IPv6 - Local Connectivity Only

Local Connectivity Only allows you to set up an IPv6 connection that will not connect to the Internet. Click **Save** at any time to save the changes you have made on this page.



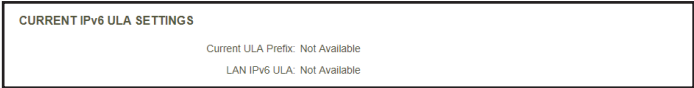
Advanced Settings... - IPv6 ULA Settings

- Enable ULA** Click here to enable Unique Local IPv6 Unicast Addresses settings.
- Use Default ULA Prefix** Enable this option to use the default ULA prefix.
- ULA Prefix** Configurable if you disable Use Default ULA Prefix. Enter your own ULA prefix.



Advanced Settings... - Current IPv6 ULA Settings

- Current ULA Prefix** Displays the current ULA prefix.
- LAN IPv6 ULA** Displays the LAN's IPv6 ULA.



Internet - VLAN

In the Settings menu on the bar at the top of the page, click **Internet** to see the Internet configuration options for the IPv4 connection details, then click the **VLAN** link to access the configuration options for the VLAN connection details.

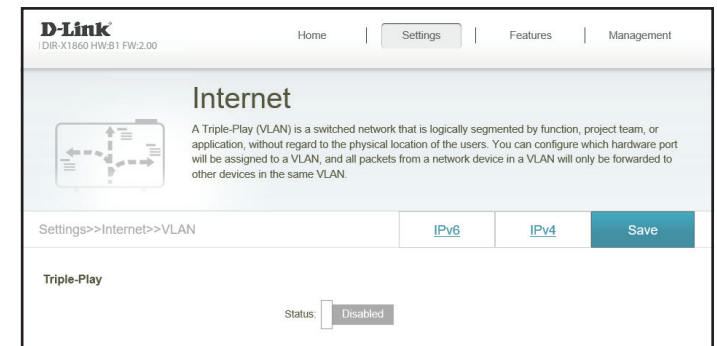
VLAN allows for services such as Triple-Play to be used, and divides a network into segments that can only be accessed by other devices in the same VLAN.

To configure the IPv4 Internet and network connection details, click the **IPv4** link. Refer to **Internet - IPv4** on page 29

To configure the IPv6 Internet and network connection details, click the **IPv6** link. Refer to **Internet - IPv6** on page 39

Click **Save** at any time to save the changes you have made on this page.

Status Click to enable or disable the Triple-Play VLAN feature. More configuration options will be available if the Status is enabled.



If Triple-Play Status is **Enabled**:

Priority ID Enable or disable traffic priority ID for the Internet, IPTV, and VoIP VLANs. If Priority ID is enabled, Priority ID options are available for configuration. Select a priority ID from the drop-down menus to assign to the corresponding VLAN. Higher priority ID traffic takes precedence over traffic with a low priority ID tag.

VLAN TAG Enable VLAN TAG to enter VLAN ID, as provided by your ISP

Internet VLAN ID Enable VLAN TAG and enter the VLAN ID for your Internet connection, as provided by your ISP.

IPTV VLAN ID Enable VLAN TAG and enter the VLAN ID for your IPTV service, as provided by your ISP.

VOIP VLAN ID Enable VLAN TAG and enter the VLAN ID for your VoIP network, as provided by your ISP.

Interface Traffic Type Setting

LAN Port 1-3 From the drop-down menu, you can select the type of connection (Internet, IPTV, or Voice over IP) coming from the WAN connection to each interface on the router.

D-Link
DIR-X1860 HW:B1 FW:2.00

Home | Settings | Features | Management

Internet

A Triple-Play (VLAN) is a switched network that is logically segmented by function, project team, or application, without regard to the physical location of the users. You can configure which hardware port will be assigned to a VLAN, and all packets from a network device in a VLAN will only be forwarded to other devices in the same VLAN.

Settings > Internet > VLAN

IPv6 | IPv4 | Save

Triple-Play

Status: ☐ Enabled

Priority ID: ☐ Enabled

Internet VLAN

VLAN TAG: ☐ Disabled

Internet VLAN ID: Priority ID:

IPTV VLAN

VLAN TAG: ☐ Disabled

IPTV VLAN ID: Priority ID:

VOIP VLAN

VLAN TAG: ☐ Disabled

VOIP VLAN ID: Priority ID:

Interface Traffic Type Setting

LAN Port 1:

LAN Port 2:

LAN Port 3:

LAN Port 4:

Wireless

In the Settings menu on the bar at the top of the page, click **Wireless** to see your wireless network settings for your DIR-X1860.

Click **Save** at any time to save the changes you have made on this page.

Wi-Fi Mesh

Status Indicates the status of the seamless Wi-Fi mesh system.

Smart Connect

Status Enable or disable the Smart Connect Feature. When enabled, only a few configuration options are available to simplify configuration. Add This will be enabled by default if Wi-Fi Mesh is disabled.

If Smart Connect is Status is **Enabled**:

Wireless

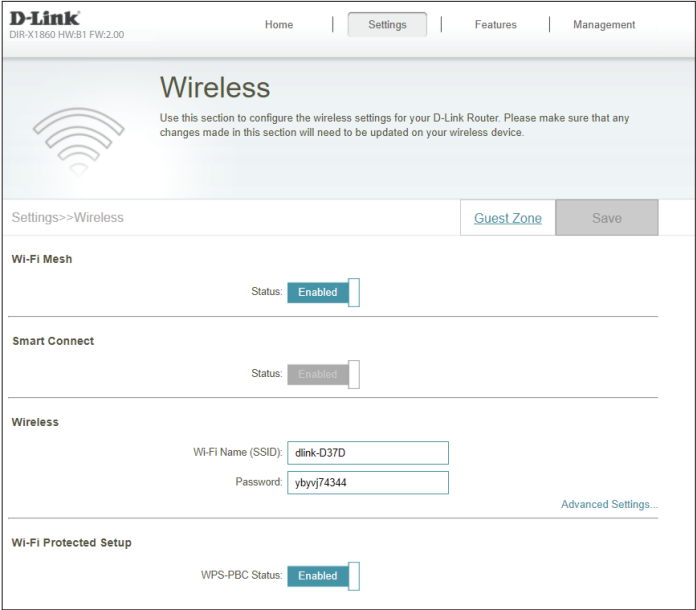
Wi-Fi Name (SSID) Create a name for your wireless network using up to 32 characters.

Password Create a password to use for wireless security. Wireless clients will need to enter this password to successfully connect to the network.

Wireless - Advanced Settings...

Security Mode Choose **None**, **WPA2/WPA3-Personal** or **WPA/WPA2-Personal** (recommended).

Transmission Power Select the desired wireless transmission power.



Smart Connect

Status Enable or disable the Smart Connect Feature. When disabled, 2.4GHz and 5GHz configuration options become available.

If Smart Connect is Status is **Disabled**:

2.4GHz / 5GHz

Status Enable or disable the 2.4GHz / 5GHz 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. Wireless clients will need to enter this password to successfully connect to the network.

Smart Connect

Status:

Disabled

2.4GHz

Status:

Enabled

Wi-Fi Name (SSID):

RouterName

Password:

AStrongPassword

5GHz

Status:

Enabled

Wi-Fi Name (SSID):

RouterName

Password:

AStrongPassword

2.4GHz - Advanced Settings...

- Security Mode

Choose **None**, **WPA2/WPA3-Personal** or **WPA/WPA2-Personal** (recommended).
- 802.11 Mode (2.4GHz)

Select the desired wireless networking standards to use.
The available options for the 2.4 GHz wireless network are **Mixed 802.11b/g/n/ax**, **Mixed 802.11b/g/n**, **Mixed 802.11g/n**, or **802.11n only**.
- Wi-Fi Channel

Select the desired channel. The default is **Auto** (recommended).
- Transmission Power

Select the desired wireless transmission power.
- Channel Width (2.4GHz)

Select **Auto 20/40** if you are using both 802.11n and non-802.11n devices, or select **20 MHz** if you are not using any 802.11n devices.
- HT20/40 Coexistence (2.4GHz)

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.

2.4GHz

Status:

Enabled

Wi-Fi Name (SSID):

RouterName

Password:

AStrongPassword

Advanced Settings...

Security Mode:

WPA/WPA2-Personal

802.11 Mode:

Mixed 802.11b/g/n

Wi-Fi Channel:

Auto

Transmission Power:

High

Channel Width:

Auto 20/40 MHz

HT20/40 Coexistence:

Enabled

Visibility Status:

Visible

5GHz - Advanced Settings...

- Security Mode

Choose **None**, **WPA2/WPA3-Personal** or **WPA/WPA2-Personal** (recommended).
- 802.11 Mode (5GHz)

Select the desired wireless networking standards to use.
The available options for the 5 GHz wireless network are **Mixed 802.11a/n/ac/ax**, **Mixed 802.11a/n/ac**, **Mixed 802.11n/ac**, **Mixed 802.11a/n**, **802.11ac only**, **Mixed 802.11a only**, or **802.11n only**.
- Wi-Fi Channel

Select the desired channel. The default is **Auto** (recommended).
- Transmission Power

Select the desired wireless transmission power.
- Channel Width (5GHz)

Select **Auto 20/40/80** if you are using 802.11ac, 802.11n, and 802.11a devices, select **Auto 20/40** if you are using 802.11n and 802.11a devices, or select **20 MHz** if you are using 802.11a devices.
- Visibility Status

The default setting is **Visible**. Select **Invisible** if you do not want to broadcast the SSID of your wireless network.

5GHz

Status:

Enabled

Wi-Fi Name (SSID):

RouterName

Password:

AStrongPassword

Advanced Settings...

Security Mode:

WPA/WPA2-Personal

802.11 Mode:

Mixed 802.11a/n/ac/ax

Wi-Fi Channel:

Auto

Transmission Power:

High

Channel Width:

Auto 20/40/80 MHz

Visibility Status:

Visible

Wi-Fi Protected Setup

The easiest way to connect your wireless devices to the router is with Wi-Fi Protected Setup (WPS).

WPS-PBC Status Enable or disable WPS-PBC (Push Button Configuration) functionality.



Guest Zone

In the Settings menu on the bar at the top of the page, click **Wireless** to see your wireless network settings for your DIR-X1860. Then click the link to **Guest Zone** to configure your guest zone settings.

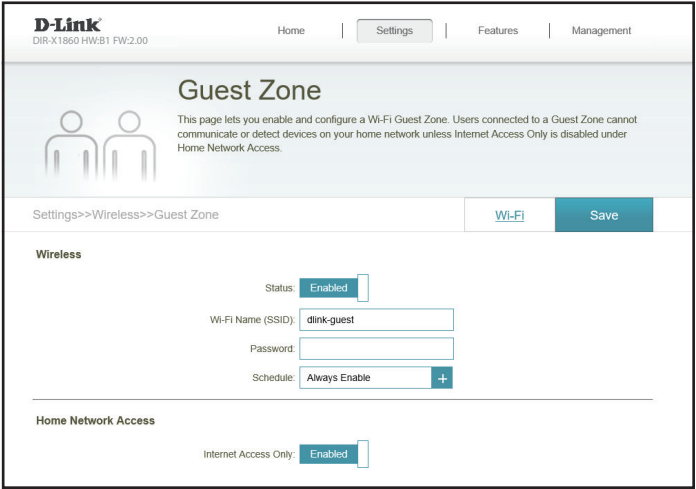
The **Guest Zone** feature will allow you to create temporary zones that can be used by guests to access the Internet. These zones will be separate from your main wireless network. You may configure different zones for the 2.4 GHz and 5 GHz wireless bands.

Click **Save** at any time to save the changes you have made on this page.

If Smart Connect is Status is **Enabled** in the previous Wireless settings:

Wireless	
Status	Enable or disable the Guest Zone feature. The status is disabled by default.
Wireless Name (SSID)	Create a name for your wireless network using up to 32 characters.
Password	Create a password to use for wireless security.
Schedule	Use the drop-down menu to select the time schedule that the rule will be enabled for. The schedule may be set to Always Enable , or you can create your own schedules in the Schedules section. Refer to Time & Schedule - Schedule on page 84 for more information.

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

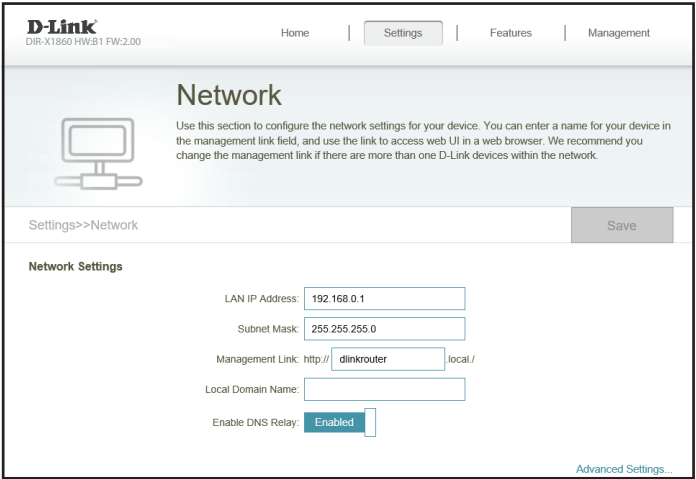


Network

In the Settings menu on the bar at the top of the page, click **Network** to change the local network settings of the router and to configure the DHCP settings.

Click **Save** at any time to save the changes you have made on this page.

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 Link	The default address to access the router’s configuration is http://dlinkrouter.local/ . You can replace dlinkrouter with a name of your choice.
Local Domain Name	Enter the domain name (optional).
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.



DHCP Server	
Status	Enable or disable the DHCP server.
DHCP IP Address Range	Enter the starting and ending IP addresses for the DHCP server's IP assignment. Note: <i>If you statically 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.</i>
DHCP Lease Time	Enter the length of time for the IP address lease in minutes.
Always Broadcast	Enable this feature to broadcast your network's DHCP server to LAN/WLAN clients.

DHCP Server

Status: ☒ Enabled

DHCP IP Address Range: 192.168.0. to 192.168.0.

DHCP Lease Time: minutes

Always Broadcast: ☐ Disabled
(compatibility for some DHCP 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 Streams	Enable to allow IPv4 multicast traffic to pass through the router from the Internet. This is enabled by default.
IPv6 Multicast Streams	Enable to allow IPv6 multicast traffic to pass through the router from the Internet. This is enabled by default.

Advanced Settings

WAN Port Speed: ▼

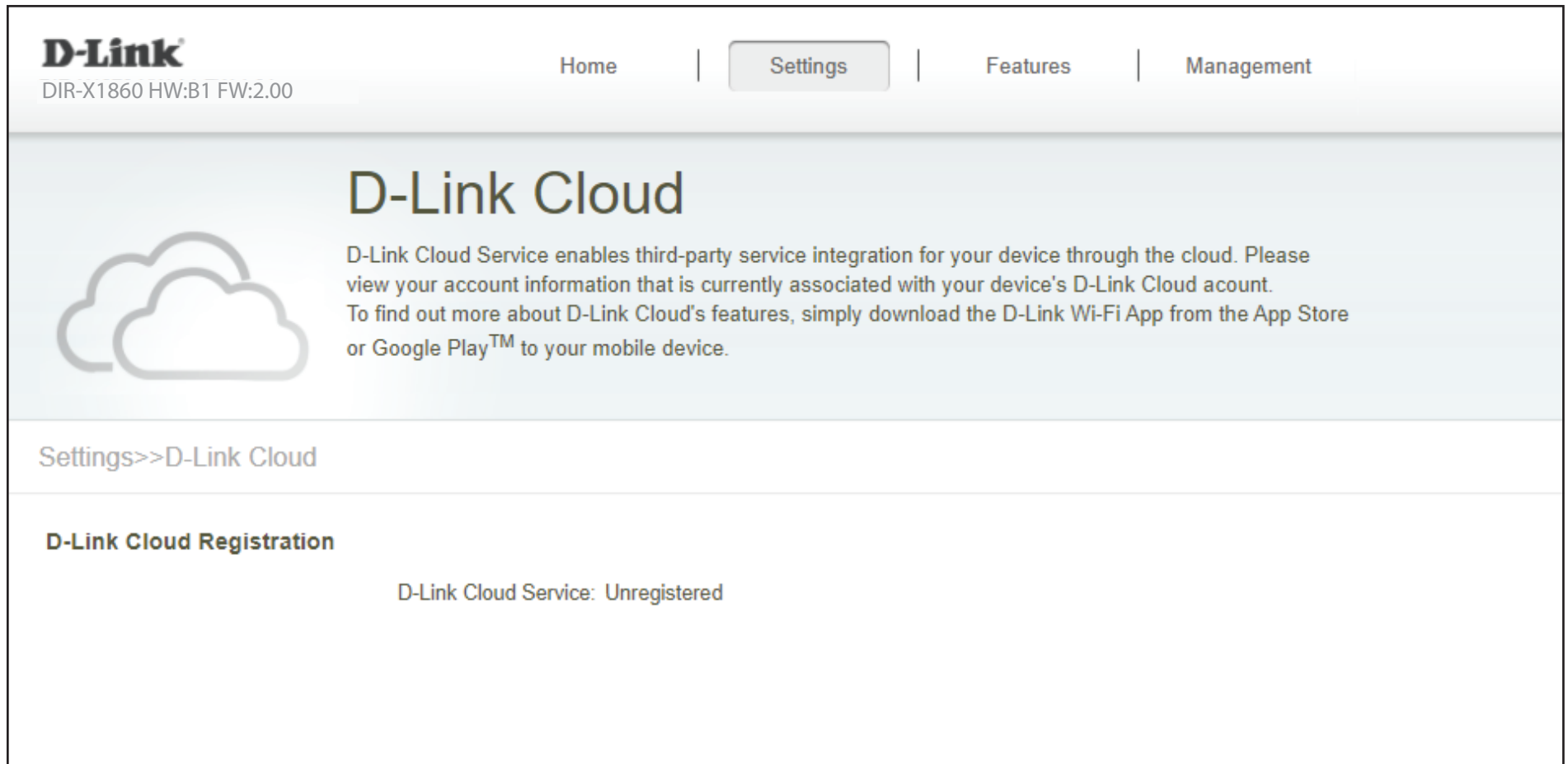
UPnP: ☒ Enabled

IPv4 Multicast Streams: ☒ Enabled

IPv6 Multicast Streams: ☒ Enabled

D-Link Cloud

In the Settings menu on the bar at the top of the page, click **D-Link Cloud** to see your D-Link Cloud Service details. This page lists whether you are registered with D-Link Cloud Service and email address associated with the account. Use the D-Link Wi-Fi app to find out more about D-Link Cloud's features.



D-Link
DIR-X1860 HW:B1 FW:2.00

Home | **Settings** | Features | Management

D-Link Cloud

D-Link Cloud Service enables third-party service integration for your device through the cloud. Please view your account information that is currently associated with your device's D-Link Cloud account. To find out more about D-Link Cloud's features, simply download the D-Link Wi-Fi App from the App Store or Google Play™ to your mobile device.

Settings>>D-Link Cloud

D-Link Cloud Registration

D-Link Cloud Service: Unregistered

Operation Mode

In the Settings menu on the bar at the top of the page, click **Network** to change the local network settings of the router and to configure the DHCP settings.

Click **Save** at any time to save the changes you have made on this page.

Operation Mode Settings

Router Mode Select Router Mode to run this device as a router.

Bridge Mode Select Bridge Mode to run this device as a bridge.

Extender Mode Select Extender Mode to run this device as an extender

Operation Mode Settings

Your device operation mode is: Router Mode

In Router mode, the device directly connects to the Internet provided by your Internet Service Provider. All client devices from a network group under this router.

The device operates under Router mode by default.



Internet Your Device Wi-Fi Client

Operation Mode Settings

Your device operation mode is: Bridge Mode

In Bridge Mode, your device extends your existing network and improves overall Wi-Fi coverage. Under this mode, the Parental Controls, QoS and Firewall settings rely on the existing router.



Internet Existing Router Your Device Client

Operation Mode Settings

Your device operation mode is: Extender Mode

This device acts as an extender to connect your wireless devices, but does not provide routing functionality. It works as a connection between various wireless devices. This can be useful if you already have an existing wireless router.

Switching this device to Extender Mode will disconnect joined mesh devices.



Internet Existing Router Your Device Wi-Fi Client

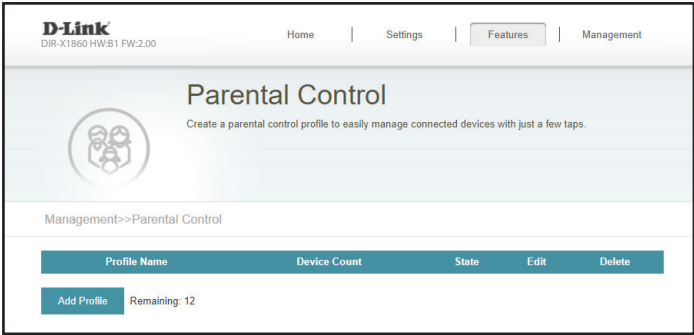
Features

Parental Control

In the Features menu on the bar at the top of the page, click **Parental Control** to configure connected clients Internet access.

Click **Save** at any time to save the changes you have made on this page.

If you wish to remove a rule, click on the trash can icon in the Delete column. If you wish to edit a rule, click on the pencil icon in the Edit column. If you wish to create a new rule, click the **Add Profile** button.

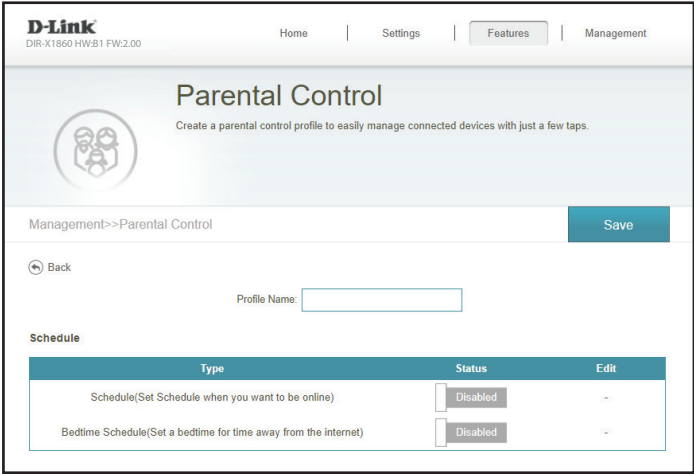


Profile Name Enter a profile name for the schedule.

Schedule

Schedule(Set Schedule when you want to be online) Set a time period for the device to be allowed Internet access.

Bedtime Schedule(Set a bedtime for time away from the internet) Set a time period for the device to be denied Internet access.



If Schedule or Bedtime Schedule Status is **Enabled**.

Click on the pencil icon in the Edit column if you wish to create a new schedule,.

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 starting hour and drag to the ending hour. You can add multiple days to the schedule and multiple periods per day.

Click **Apply** when you are done.

Schedule

Type	Status	Edit
Schedule(Set Schedule when you want to be online)	Enabled	
Bedtime Schedule(Set a bedtime for time away from the internet)	Enabled	

Schedule

01234567891011121314151617181920212223

Mon

Tue

Wed

Thu

Fri

Sat

Sun

Schedule

Bedtime Schedule

Apply

Website Filter

If you wish to remove a Website Name/URL Keyword, click on the trash can icon in the Delete column. If you wish to list a new Website Name/Keyword to deny access to, click the **Add Rule** button.

- Website Name

Enter a Website name that you wish to deny access to.
- URL Keyword

Enter a URL Keyword name that you wish to deny access to.

Website Filter

Website Name	URL Keyword	Edit	Delete
Add Rule	Remaining: 24		

Add Rule

Website Name:

The example

URL Keyword:

example.com

Apply

Device

Click the **Add Device** button to select the devices that you wish to add to the schedule

Device

Selected Devices

Add Device

Remaining: 24

QoS Engine

In the Features menu on the bar at the top of the page, click **QoS Engine** to configure connected clients Internet access priority.

Click **Save** at any time to save the changes you have made on this page.

Internet Speed Checkup

Click on the **Check Speed** button to launch the Internet Speedtest. A window will pop up to show you the results of the speedtest. When the test is complete, you can either choose **Detect Again** to run the speedtest again, or you can choose **Apply to QoS** to apply the results to the download and upload speeds.

Management Type

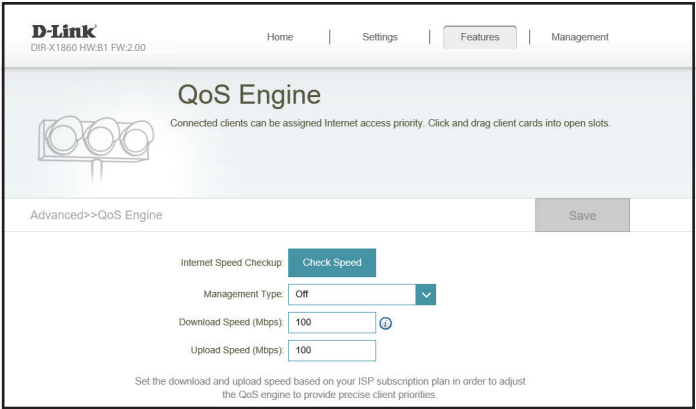
Use the drop-down menu to select the Management Type that the rule will be enabled for. This may be set to **Off** or **Manage By Device**.

Download Speed (Mbps)

Set the download speed based on your ISP subscription plan in order to adjust the QoS engine.

Upload Speed (Mbps)

Set the upload speed based on your ISP subscription plan in order to adjust the QoS engine.



This **Quality of Service (QoS) Engine** 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.

Under **Connected Clients**, 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.

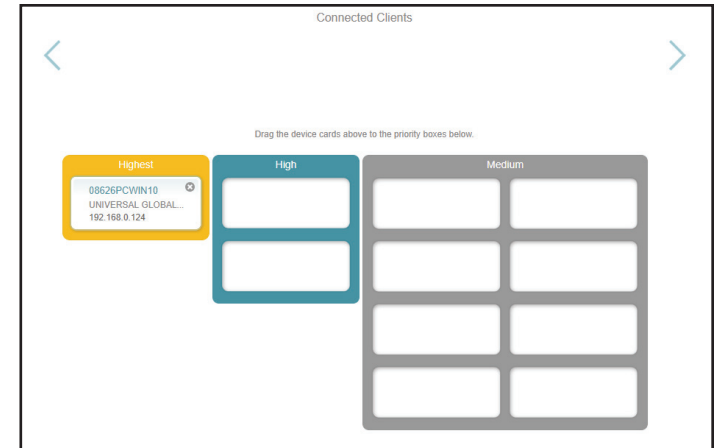
A maximum of **one** device can be assigned **Highest** priority.

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.



Firewall Settings - Advanced

In the Features menu on the bar at the top of the page, click **Firewall** to configure the router's firewall settings. The firewall feature protects your network from malicious attacks over the Internet.

To configure the IPv4 firewall rules, click the **IPv4 Rules** link. Refer to **Firewall Settings - IPv4/IPv6 Rules** on page 72

To configure the IPv6 firewall rules, click the **IPv6 Rules** link. Refer to **Firewall Settings - IPv4/IPv6 Rules** on page 72

Click **Save** at any time to save the changes you have made on this page.

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.

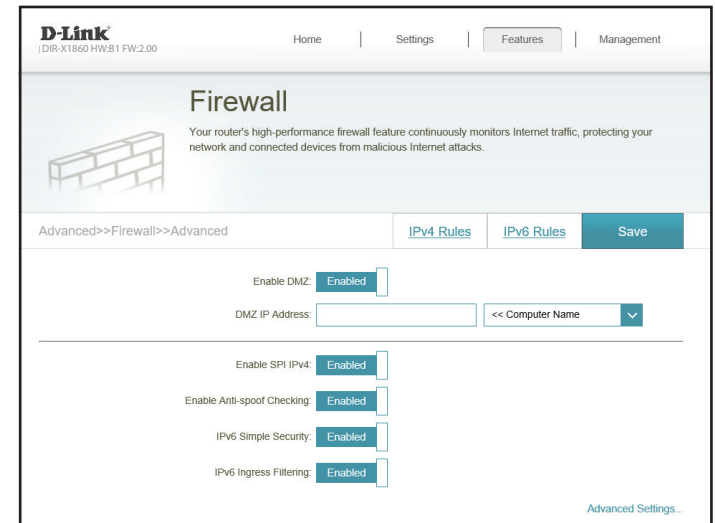
DMZ IP Address If you enabled DMZ, enter the IP address of the client you wish to expose, or use the drop-down menu to quickly select it.

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 Checking Enable this feature to help protect your network from certain kinds of "spoofing" attacks.

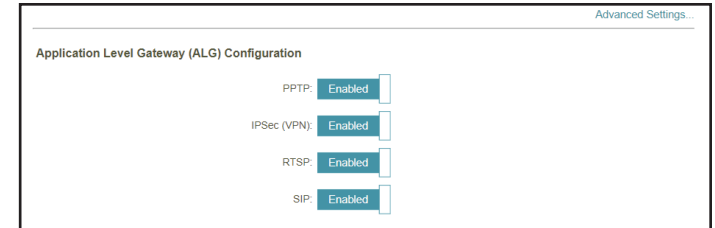
IPv6 Simple Security Enable or disable IPv6 simple security.

IPv6 Ingress Filtering Enable or disable IPv6 ingress 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.



Firewall Settings - IPv4/IPv6 Rules

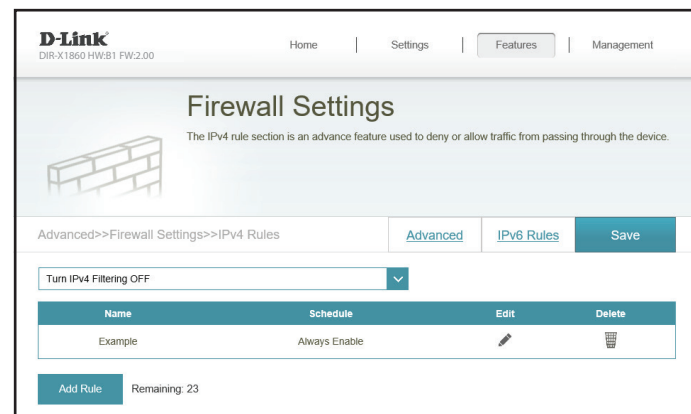
In the Features menu on the bar at the top of the page, click **Firewall** to configure the router's firewall settings, then click the **IPv4 Rules** link or the **IPv6 Rules** link to configure what kind of traffic is allowed to pass through the network.

To configure the Firewall Advanced settings, click the **Advanced** link. Refer to **Firewall Settings - Advanced** on page 70

Click **Save** at any time to save the changes you have made on this page.

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 the trash can icon in the Delete column. If you wish to edit a rule, click on the pencil icon in the Edit column. If you wish to create a new rule, click the **Add Rule** button.



If you clicked on **Edit** or **Add Rule**, the following options will appear:

- Name**

Enter a name for the rule.
- Source IP Address Range**

Enter the source IP address range that the rule will apply to. Using the drop-down menu, specify whether it is a **WAN** or **LAN** IP address.
- Destination IP Address Range**

Enter the destination IP address range that the rule will apply to. Using the drop-down menu, specify whether it is a **WAN** or **LAN** IP address.
- Protocol & 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 for. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to **Time & Schedule - Schedule** on page **84** for more information.

Create New Rule

Name:

Source IP Address Range:

WAN

Destination IP Address Range:

LAN

Protocol & Port Range:

TCP

Schedule:

Always Enable

Apply

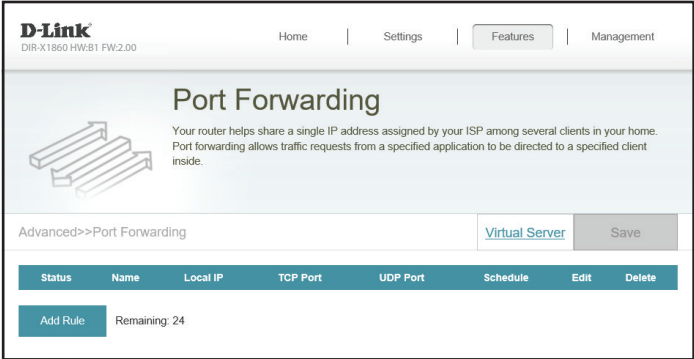
Port Forwarding

In the Features menu on the bar at the top of the page, click **Port Forwarding** 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.

To configure the Virtual Server settings, click the **Virtual Server** link. Refer to **Port Forwarding - Virtual Server** on page 76

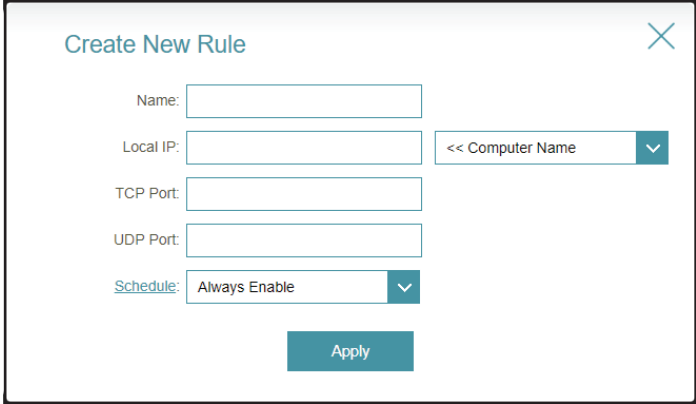
Click **Save** at any time to save the changes you have made on this page.

If you wish to remove a rule, click on the trash can icon in the Delete column. If you wish to edit a rule, click on the pencil icon in the Edit column. If you wish to create a new rule, click the **Add Rule** button.



If you clicked on **Edit** or **Add 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 for. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to **Time & Schedule - Schedule** on page **84** for more information.



The screenshot shows a 'Create New Rule' dialog box with the following elements:

- Title:** Create New Rule (with a close button 'X' in the top right corner).
- Name:** A text input field.
- Local IP:** A text input field next to a dropdown menu showing '<< Computer Name'.
- TCP Port:** A text input field.
- UDP Port:** A text input field.
- Schedule:** A dropdown menu showing 'Always Enable'.
- Apply:** A blue button at the bottom right.

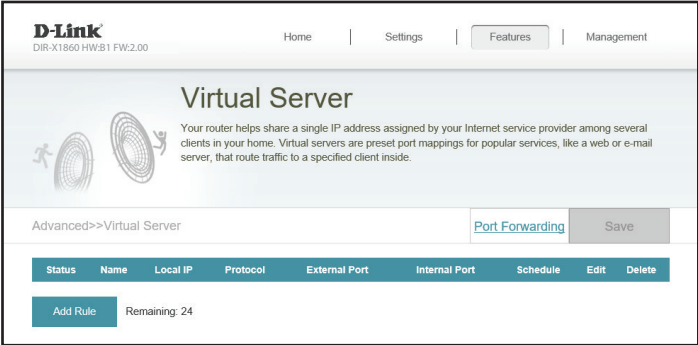
Port Forwarding - Virtual Server

In the Features menu on the bar at the top of the page, click **Port Forwarding** then click the **Virtual Server** link to configure its settings and specify a single public port on your router for redirection to an internal LAN IP address and Private LAN port. This might be necessary for certain applications to connect through the router.

To configure the Port Forwarding settings, click the **Port Forwarding** link. Refer to **Port Forwarding** on page 74

Click **Save** at any time to save the changes you have made on this page.

If you wish to remove a rule, click on the trash can icon in the Delete column. If you wish to edit a rule, click on the pencil icon in the Edit column. If you wish to create a new rule, click the **Add Rule** button.



If you clicked on **Edit** or **Add Rule**, the following options will appear:

Name Enter a name for the rule. Alternatively, select the protocol/ Application Name 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 for. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to **Time & Schedule - Schedule** on page **84** for more information.

The screenshot shows a 'Create New Rule' window with the following fields:

- Name:** A text input field followed by a dropdown menu currently showing '<< Application Name'.
- Local IP:** A text input field followed by a dropdown menu currently showing '<< Computer Name'.
- Protocol:** A dropdown menu currently showing 'TCP'.
- External Port:** A text input field.
- Internal Port:** A text input field.
- Schedule:** A dropdown menu currently showing 'Always Enable'.
- Apply:** A blue button at the bottom right.

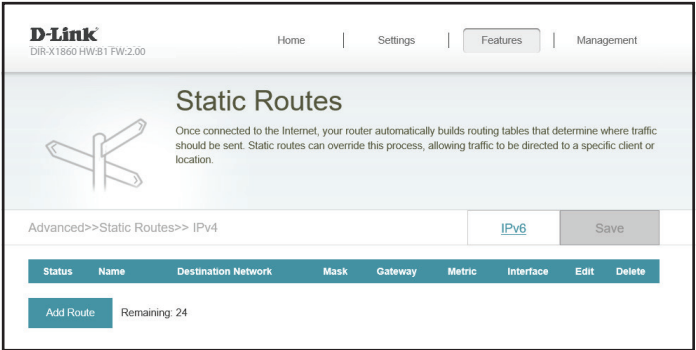
Static Route - IPv4

In the Features menu on the bar at the top of the page, click **Static Route** to define custom routes, controlling how data traffic is moved around your network.

To configure the Static Route IPv6 settings, click the **IPv6** link. Refer to **Static Route - IPv6** on page 79

Click **Save** at any time to save the changes you have made on this page.

If you wish to remove a route, click on the trash can icon in the Delete column. If you wish to edit a route, click on the pencil icon in the Edit column. If you wish to create a new route, click the **Add Route** button.



If you clicked on **Edit** or **Add Rule**, the following options will appear:

- Name** Enter a name for the rule.
- Destination Network** Enter the IP address of packets that will take this route.
- Mask** Enter the subnet mask of the route.
- Gateway** Enter your next hop gateway to be taken when this route is used.
- Metric** Enter a route metric value ranging from **0** to **15**. This value indicates the cost of using this route.
- Interface** Select the interface that the IP packet must use to transit out of the router when this route is used.

A screenshot of the 'Create New Route' form in the D-Link web interface. The form has a close button (X) in the top right corner. It contains several input fields: 'Name', 'Destination Network', 'Mask', 'Gateway', and 'Metric'. The 'Interface' field is a dropdown menu currently set to 'WAN'. An 'Apply' button is located at the bottom right of the form.

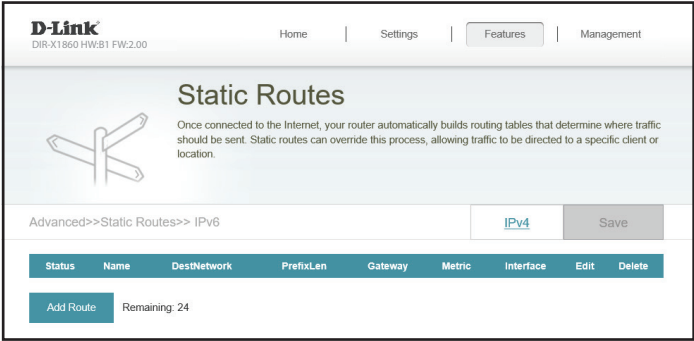
Static Route - IPv6

In the Features menu on the bar at the top of the page, click **Static Route** to access the IPv4 Static Route settings, then click **IPv6** to configure the IPv6 Static Routes.

To configure the Static Route IPv4 settings, click the **IPv4** link. Refer to **Static Route - IPv4** on page 78

Click **Save** at any time to save the changes you have made on this page.

If you wish to remove a route, click on the trash can icon in the Delete column. If you wish to edit a route, click on the pencil icon in the Edit column. If you wish to create a new route, click the **Add Route** button.



If you clicked on **Edit** or **Add 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 when this route is used.
- Metric** Enter a route metric value ranging from **0** to **15**. This value indicates the cost of using this route.
- Interface** Select the interface that the IP packet must use to transit out of the router when this route is used.

A screenshot of the 'Create New Route' form in the D-Link web interface. The form has a title bar with a close button (X). It contains several input fields: 'Name', 'DestNetwork', 'PrefixLen', 'Gateway', 'Metric', and 'Interface'. The 'Interface' field is a dropdown menu with 'WAN' selected. There is an 'Apply' button at the bottom right.

Dynamic DNS

In the Features menu on the bar at the top of the page, click **Dynamic DNS**. This setting allows your router to associate an easy-to-remember domain name such as [YourDomainName].com with the regularly changing IP address assigned by your Internet Service provider. This feature is helpful when running a virtual server.

Click **Save** at any time to save the changes you have made on this page.

- Enable Dynamic DNS

Enable or disable dynamic DNS. Enabling this feature will reveal further configuration options.
- Status

Displays the current dynamic DNS connection status.
- Server Address

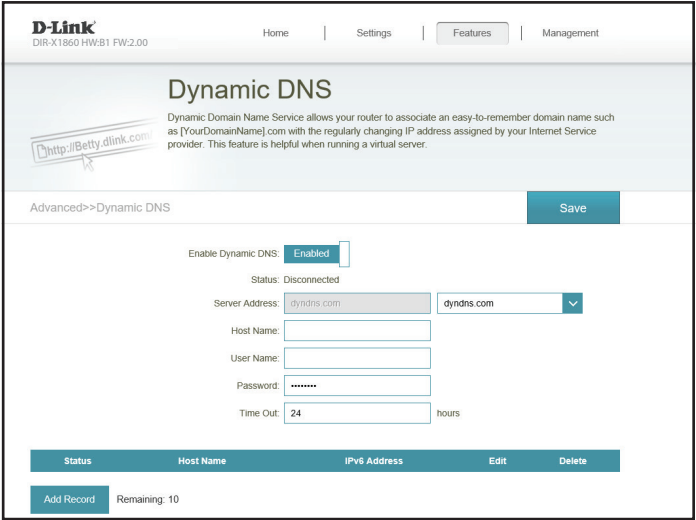
Enter the address of your dynamic DNS server, or select one from the drop-down menu.
- Host Name

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 time out time (in hours).



At the bottom of the page are the IPv6 host settings.

If you wish to remove a record, click on the trash can icon in the Delete column. If you wish to edit a record, click on the pencil icon in the Edit column. If you wish to create a new record, click the **Add Record** button.

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.

Status	Host Name	IPv6 Address	Edit	Delete
Add Record	Remaining: 10			

Create New Record

Host Name:

IPv6 Address: << Computer Name

Apply

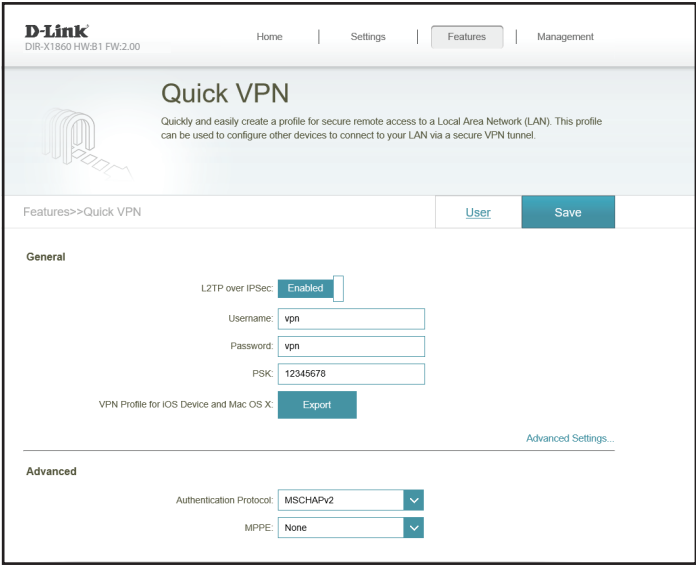
Quick VPN

In the Features menu on the bar at the top of the page, click **Quick VPN**. This page will help you configure the Quick VPN feature of your router. For more information, refer to **Quick VPN** on page **105**. Before proceeding, ensure that your Internet connection is working properly. We recommend configuring Dynamic DNS before proceeding with Quick VPN setup. If your router is assigned an IP address from your ISP using DHCP, it may frequently change, requiring clients credentials to be set up again and a simple DDNS address will be easier than an IP address.

To configure the User settings and create, manage, and delete user accounts with user-defined access to certain router services, click the **User** link. Refer to **User** on page **89**

Click **Save** at any time to save the changes you have made on this page.

L2TP over IPSec	Enable or disable the Quick VPN server.
Username	Enter a username between 1 and 20 characters.
Password	Enter a password between 1 and 20 characters.
PSK	Enter a passkey between 6 and 64 characters.
VPN Profile for iOS Device and MAC OS X	Click export to save the VPN profile settings file for iOS devices or Mac OS X.
Advanced Settings...	
Authentication Protocol	Choose the authentication protocol type: MSCHAPv2 , PAP , or CHAP . MSCHAPv2 is the default.
MPPE	Select the encryption cipher strength: None , RC4-40 , or RC4-128 . RC4-128 is the default.



Management

Time & Schedule - Time

In the Management menu on the bar at the top of the page, click **Time & Schedule**. 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 and the Network Time Protocol (NTP) server.

To configure the Schedule settings, click the **Schedule** link. Refer to **Time & Schedule - Schedule** on page 84

Click **Save** at any time to save the changes you have made on this page.

Time Configuration

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

Time Displays the current date and time of the router.

D-Link
DIR-X1860 HW:B1 FW:2.00

Home | Settings | Features | Management

Time

Your device's internal clock is used for time sensitive applications, such as firmware online checking, data logging and schedules for features. The date and time can be synchronized with a public time server through the Internet.

Management>>Time [Schedule](#) [Save](#)

Time Configuration

Time Zone:

Time: 2019/11/07 02:19:02 PM

Automatic Time Configuration

NTP Server:

Automatic Time Configuration

NTP Server Select from the drop-down menu to either use the D-Link NTP Server to synchronize the time and date for your router, or choose Manual to set the NTP server's IP address.

Automatic Time Configuration

NTP Server:

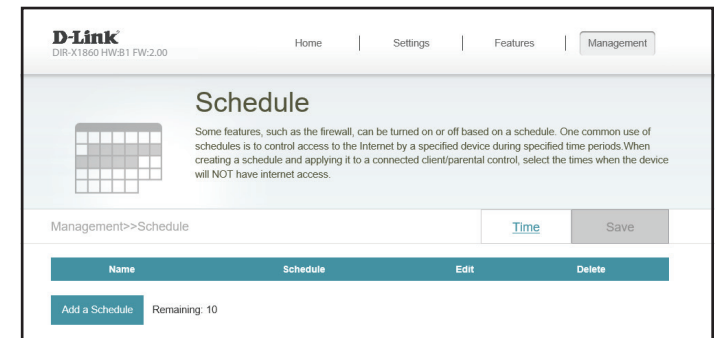
Time & Schedule - Schedule

In the Management menu on the bar at the top of the page, click **Time & Schedule** to access the Time page, then click the **Schedule** link. The **Schedule** page allows you to control some of the router functions through a pre-configured schedule.

To configure the Time settings, click the **Time** link. Refer to **Time & Schedule - Time** on page 83

Click **Save** at any time to save the changes you have made on this page.

If you wish to remove a schedule, click on the trash can icon in the Delete column. If you wish to edit a schedule, click on the pencil icon in the Edit column. If you wish to create a new schedule, click the **Add a Schedule** button.

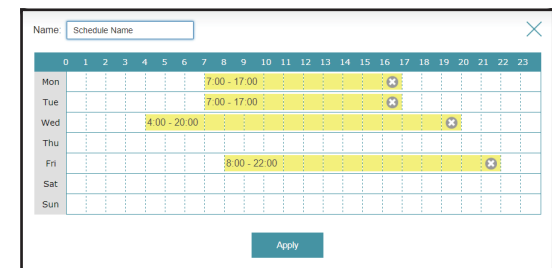
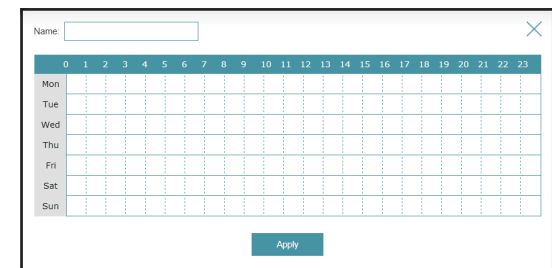


First, enter the name of your schedule in the **Name** field.

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 starting hour and drag to the ending 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

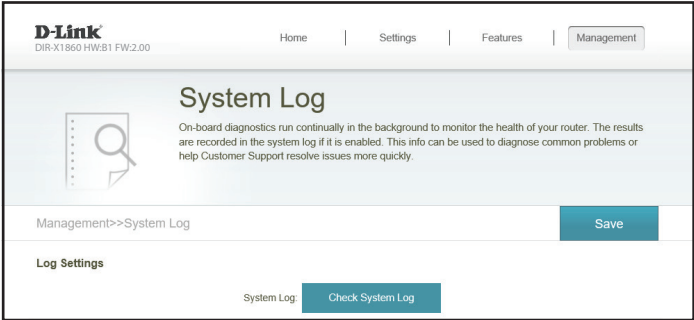
In the Management menu on the bar at the top of the page, click **System Log**. The router keeps a running log of events. This log can be sent to a Syslog server, or sent to your email address.

Click **Save** at any time to save the changes you have made on this page.

Log Settings

System Log

Click the **Check System Log** button to download a text file containing the system log.



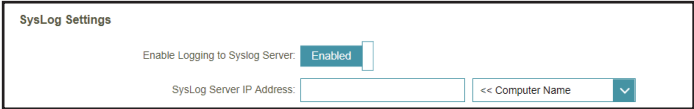
SysLog Settings

Enable Logging to Syslog Server

Check this box to send the router logs to a SysLog Server.

SysLog Server IP Address

Configurable if **Enable Logging to Syslog Server** is enabled. Enter the IP address for the Syslog server. If the Syslog server is connected to the router, select it from the drop-down menu to automatically populate the field.



Email Settings

Enable E-mail Notification Enable this option if you want the logs to be automatically sent to an email address.

If you enabled **Enable E-mail Notification**, the following options will appear:

- From E-mail Address** Enter the email address your SysLog messages will be sent from.
- To E-mail Address** Enter the email address your SysLog messages will be sent to.
- SMTP Server Address** Enter your SMTP server address.
- SMTP Server Port** Enter your SMTP server port.
- Enable Authentication** Check this box if your SMTP server requires authentication.
- Account Name** Enter your SMTP account name.
- Password** Enter your SMTP account's password.

E-mail Log When Full or On Schedule

- Send When Log Full** If enabled, this option will set the router to send the log when it is full.
- Send on Schedule** If enabled, this option will set the router to send according to a set schedule.
- Schedule** If you enable Send On Schedule, use the drop-down menu to select a schedule to apply. The schedule may be set to Always Enable, or you can create your own schedules in the Schedules section. Refer to **Time & Schedule - Schedule** on page 84 for more information.

E-mail Settings

Enable E-mail Notification: ☒

From E-mail Address:

To E-mail Address:

SMTP Server Address:

SMTP Server Port:

Enable Authentication: ☒

Account Name:

Password:

E-mail Log When Full or On Schedule

Send When Log Full: ☒

Send on Schedule: ☒

Schedule:

Always Enable

System Admin - Admin

In the Management menu on the bar at the top of the page, click **System Admin** to access the Admin page. This page will allow you to change the administrator (Admin) password.

To configure the System settings, click the **System** link. Refer to **System Admin - System** on page 88

Click **Save** at any time to save the changes you have made on this page.

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 or the D-Link Wi-Fi app.

Advanced Settings... - Administration

Enable Remote Management Click the toggle to enable remote management for your router.

Remote Admin Port Specify the port number for accessing the web configuration settings UI.

LED Control

Status LED Turn the LED status lights on or off.

D-Link
DIR-X1860 HW:3.1 FW:2.00

Home | Settings | Features | Management

Admin

The admin account can change all router settings. To keep your router secure, you should give the admin account a strong password.

Management > Admin [System](#) [Save](#)

Admin Password

Password:

[Advanced Settings...](#)

Administration

Enable Remote Management: ☐ Disabled

Remote Admin Port:

LED Control

Status LED: ☒ On

System Admin - System

In the Management menu on the bar at the top of the page, click **System Admin** to access the Admin page, then click **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.

To configure the Admin settings, click the **Admin** link. Refer to **System Admin - Admin** on page 87

Click **Save** at any time to save the changes you have made on this page.

System

Save Settings to Local Hard Drive

This option will save the current router configuration settings to a file on your computer.

Load Settings from Local Hard Drive

This option will load a previously saved router configuration file. This will overwrite the router’s current configuration.

Restore to Factory Default Settings

This option will restore the router back to the default configurations stored in the firmware. 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.

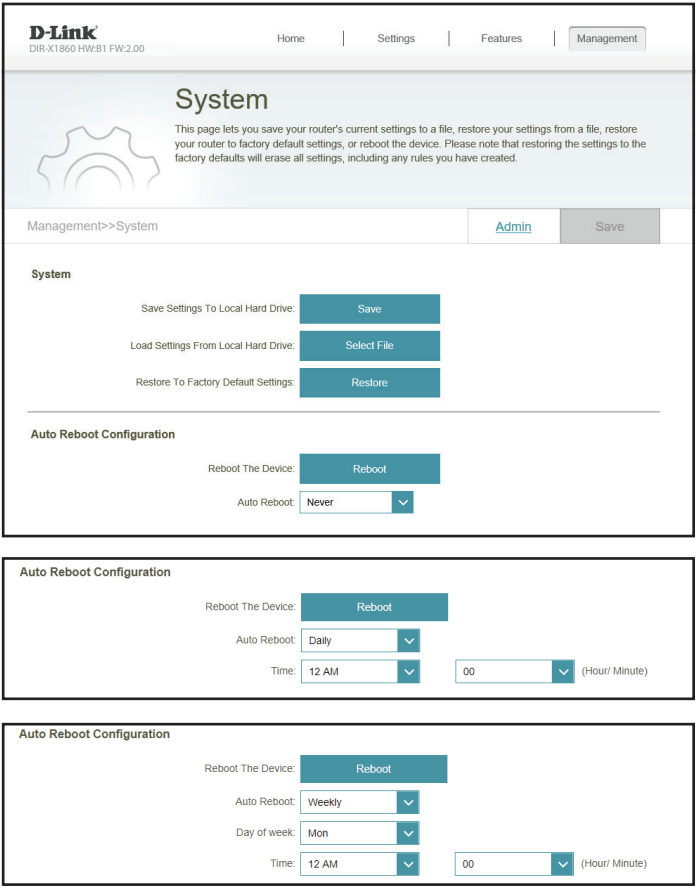
Auto Reboot Configuration

Reboot the Device

Click to reboot the router immediately.

Auto Reboot

You may set the router to automatically reboot at a set time. The options are **Never**, **Daily**, or **Weekly**. You may set the hour, the minute, and the day you wish to have the router automatically reboot at.

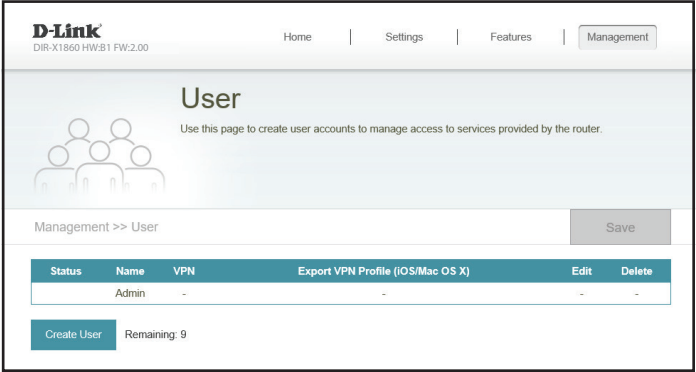


User

In the Management menu on the bar at the top of the page, click **User**. The User section is used to create, manage, and delete user accounts with user-defined access to certain router services.

Click **Save** at any time to save the changes you have made on this page.

If you wish to remove a user, click on the trash can icon in the Delete column. If you wish to edit a user, click on the pencil icon in the Edit column. If you wish to create a new user, click the **Create User** button.

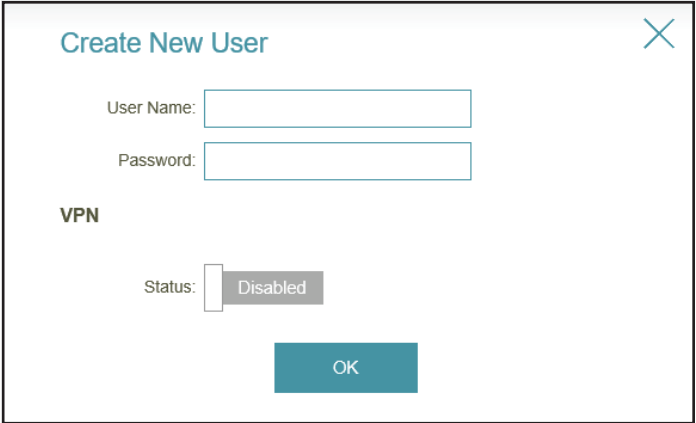


User Name Enter a username for the new user account.

Password Enter a password for the new user account.

VPN

Status Enable or disable Virtual Private Network (VPN) functionality for this user.



Upgrade

In the Management menu on the bar at the top of the page, click **Upgrade**. This page will allow you to upgrade the router's firmware, either automatically or manually. To manually upgrade the firmware, you must first download the relevant file from **<http://support.dlink.com>**.

Click **Save** at any time to save the changes you have made on this page.

Firmware

Current Firmware Version

The current firmware's version will be displayed.

Check for New Firmware

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

Automatic Firmware Upgrade

Automatic Upgrade

If enabled, the router will automatically check for and upgrade to the newest firmware.

Choose Upgrade Time

Enable this function to set the router to automatically upgrade its firmware at a set time.

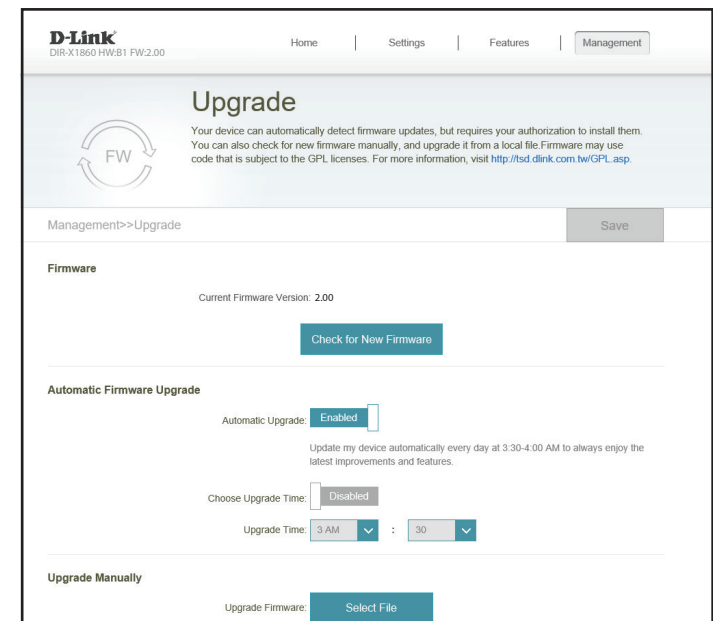
Upgrade Time

Configurable if **Choose Upgrade Time** is enabled. Set the hour and minute to automatically upgrade by using the drop-down menus.

Upgrade Firmware

Upgrade Firmware

If you wish to upgrade manually, first download the firmware file you wish to upgrade to. Next, click the **Select File** button and browse to the file to install the new firmware.

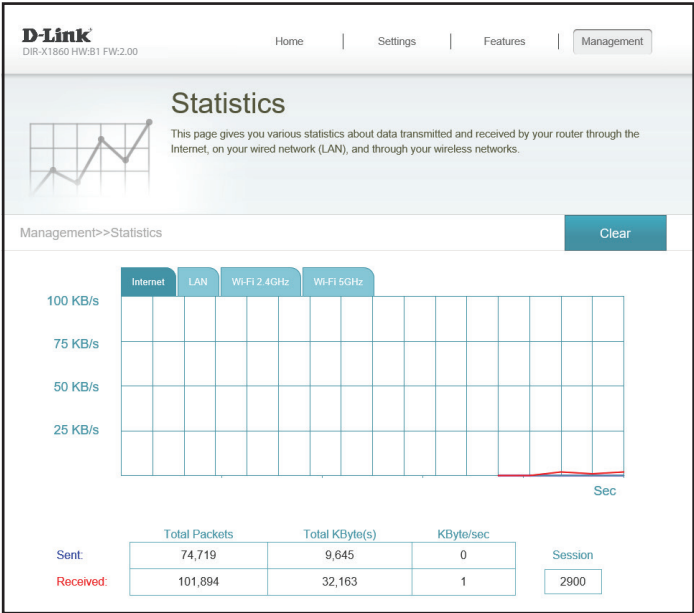


Statistics

In the Management menu on the bar at the top of the page, click **Statistics**. On the Statistics page you can view the amount of packets that pass through the router on the Internet, LAN, Wi-Fi 2.4 GHz and Wi-Fi 5GHz networks.

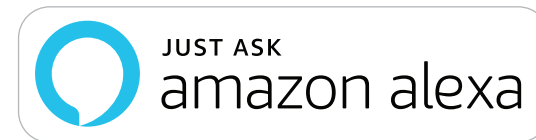
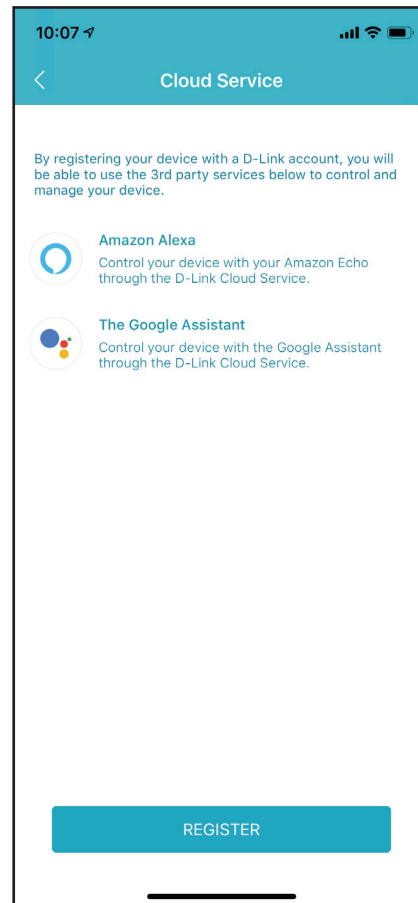
You can view the **Internet**, **LAN**, **Wi-Fi 2.4 GHz**, or **Wi-Fi 5 GHz** by clicking on the respective tabs at the top. The graph will update in real time. To clear the information on the graph, click **Clear** near the top of the page.

The traffic counter will reset if the device is rebooted.



Third Party Services

With the DIR-X1860, you can command your router's functionality with your voice through Amazon Alexa and the Google Assistant, enabling you to control your network with voice commands. Features include enabling and disabling your Wi-Fi guest zone without having to go into the UI, rebooting the router and checking your router for firmware upgrades. In order to use third party services to control and manage your device, please register your device with D-Link Cloud Service.



Registering a D-Link Cloud Service Account

In order to use third party services to control and manage your device, you will first need to register your device with D-Link Cloud Service. Follow the steps below if you do not have a D-Link Cloud Service account.

Step 1

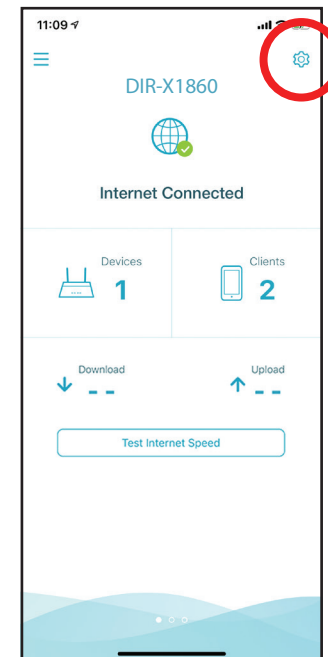
Launch the **D-Link Wi-Fi** app.



D-Link Wi-Fi

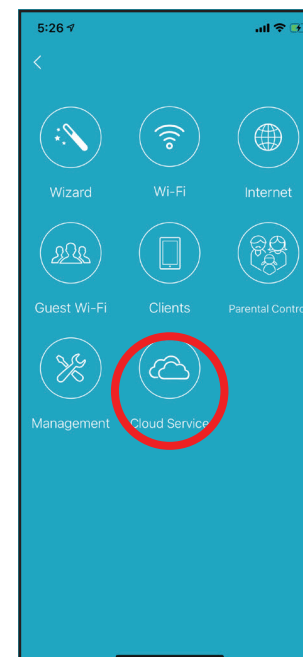
Step 2

Tap the settings gear icon on the top right corner of the screen.



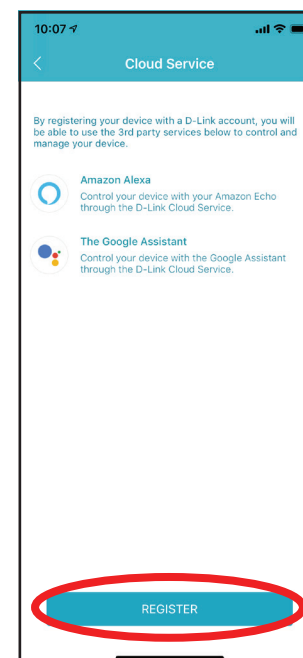
Step 3

Tap the **Cloud Service** icon.



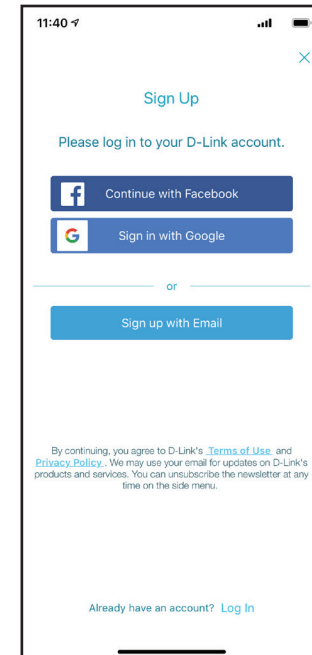
Step 4

Tap the **Register** button.



Step 5

In this menu, you can sign up for a D-Link account using Facebook, Google or an Email address. If you already have a D-Link account, you can tap the **Log In** link at the bottom of the screen to be redirected to the login page.



Amazon Alexa Setup

You will need the Amazon Alexa app, an Amazon account, an Amazon Alexa device and a D-Link Cloud Service account to use this feature.

Note: The screenshots may be different depending on your mobile device's OS version. The following steps show the iOS interface. If you are using an Android device, the appearance may be different from that of the screenshots, but the process is the same.

Step 1

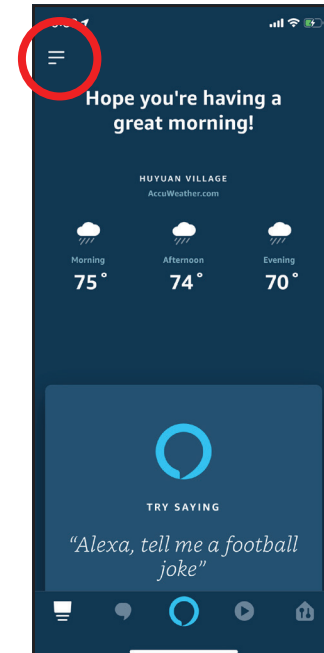
Launch the **Amazon Alexa** app.



Amazon Alexa

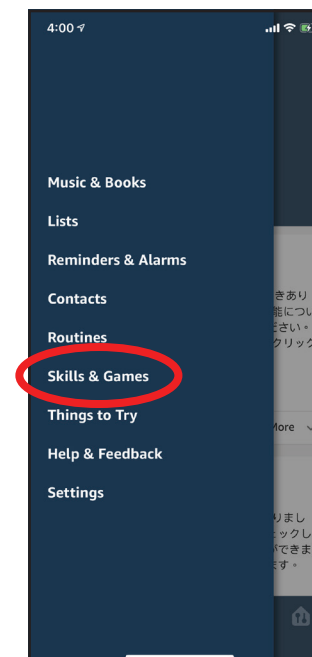
Step 2

Tap the menu icon on the top left-hand corner of the home screen.



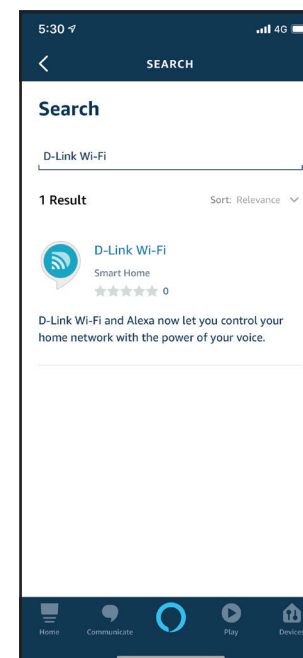
Step 3

Tap on **Skills & Games**.



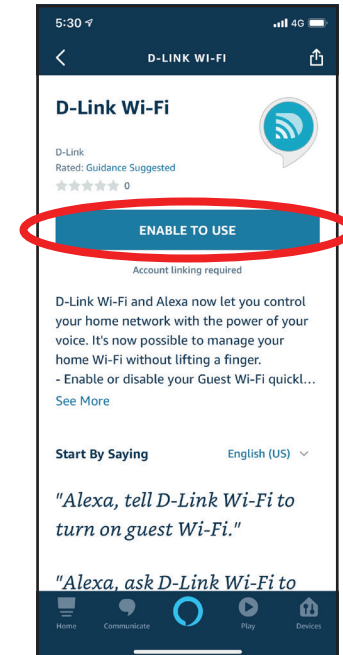
Step 4

Search for "D-Link Wi-Fi". Tap on the search result.



Step 5

Tap **Enable** to link the skill.



Step 6

Sign in using your D-Link account details.



Step 7

Congratulations! D-Link Wi-Fi has been successfully linked as a skill for your Amazon device. Close the window by tapping **Done** on the top left corner of the screen. Refer to **Amazon Alexa Voice Commands** on page **100** for tasks that you can ask your Amazon Alexa to perform.



Amazon Alexa Voice Commands

With D-Link Wi-Fi enabled as a skill for Alexa, you can ask Alexa to do any of these tasks:

Task	Command
Enable the guest zone.	"Alexa, ask D-Link Wi-Fi to enable my guest zone."
Disable the guest zone.	"Alexa, ask D-Link Wi-Fi to disable my guest zone."
Find out the guest zone credentials.	"Alexa, ask D-Link Wi-Fi what are my guest network credentials."
Reboot the router.	"Alexa, ask D-Link Wi-Fi to reboot the router."
Upgrade the router.	"Alexa, ask D-Link Wi-Fi to upgrade my router."

The Google Assistant Setup

You will need the Google Assistant app, a Google account and a D-Link Cloud Service account to use this feature.

Note: The screenshots may be different depending on your mobile device's OS version. The following steps show the iOS interface. If you are using an Android device, the appearance may be different from that of the screenshots, but the process is the same.

Step 1

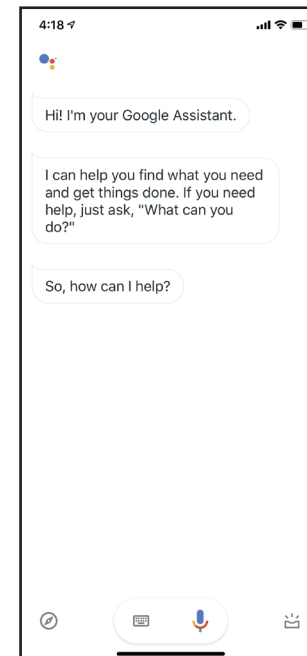
Launch the **Google Assistant** app.



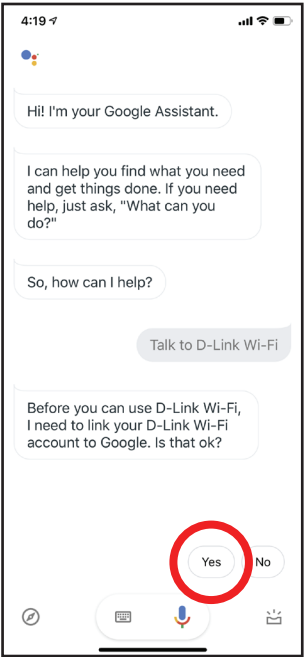
Assistant

Step 2

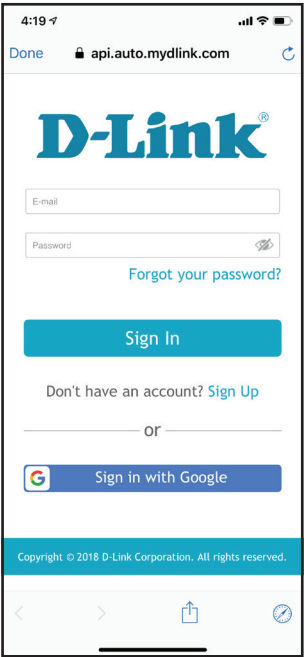
Tell your Google Assistant to **"Talk to D-Link Wi-Fi."**



Step 3
Tap **Yes**.

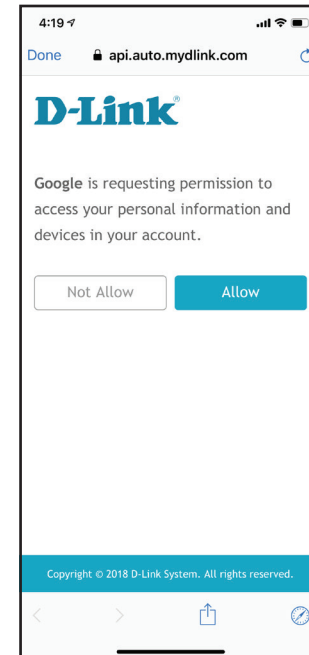


Step 4
Sign in using your D-Link account details.



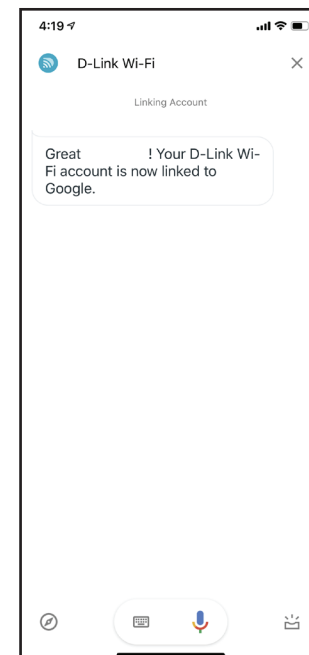
Step 5

Tap **Allow** to continue setup..



Step 6

Congratulations! D-Link Wi-Fi has been successfully linked to your Google Assistant. Refer to **The Google Assistant Voice Commands** on page **104** for tasks that you can ask your Google Assistant to perform.



The Google Assistant Voice Commands

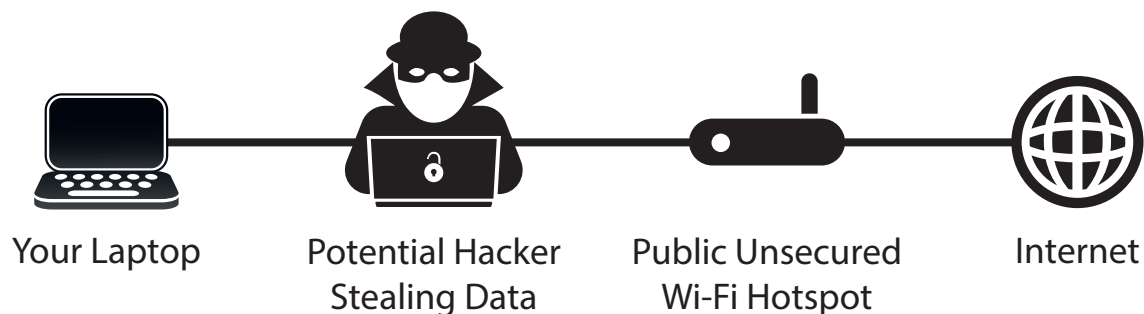
With D-Link Wi-Fi enabled as a skill for the Google Assistant, you can ask your Google Assistant to do any of these tasks:

Task	Command
Enable the guest zone.	"OK Google, talk to D-Link Wi-Fi to enable my guest zone."
Disable the guest zone.	"OK Google, talk to D-Link Wi-Fi to disable my guest zone."
Find out the guest zone credentials.	"OK Google, talk to D-Link Wi-Fi to tell me my guest zone credentials."
Reboot the router.	"OK Google, talk to D-Link Wi-Fi to reboot the router."
Upgrade the router.	"OK Google, talk to D-Link Wi-Fi to upgrade my router."

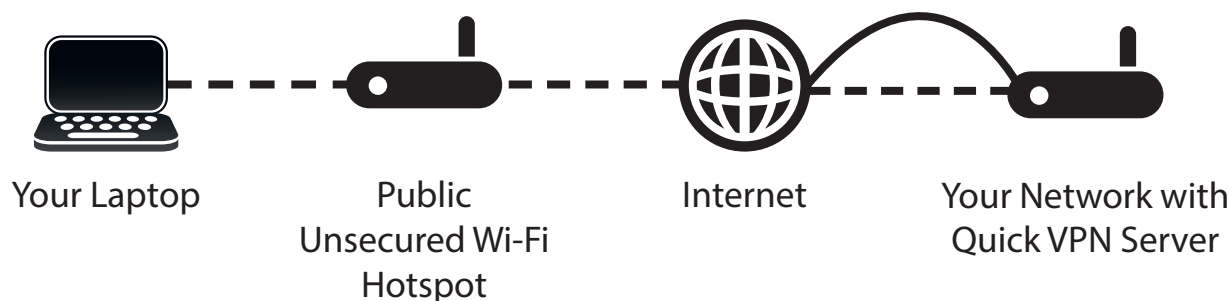
Quick VPN

This router is equipped with D-Link's Quick VPN technology. Virtual Private Networking (VPN) creates a connection between devices across the Internet. Using Quick VPN allows you to securely connect your computer or mobile device to places with free, untrusted Wi-Fi hotspots in places like coffee shops and hotels by encrypting and relaying it through your home Internet connection. This extra 'hop' reduces the chances of hackers stealing your information, such as logins, passwords, and credit card numbers. When traveling, Quick VPN lets you watch sports and use video streaming services without experiencing blackouts or filtering. You can surf the whole Internet unfiltered and unblocked, just as you would at home.

Without Quick VPN



With Quick VPN



———— Unencrypted Data

- - - - - Encrypted Data

Important Information

The following instructions explain and help you to configure your D-Link Quick VPN enabled router and devices to create a Virtual Private Network (VPN). This feature is provided for advanced users who wish to connect remotely and use their router's Internet connection to add a layer of security while using untrusted networks. Configure the Quick VPN Server on your router first and then set up client devices to connect through your router's WAN connection.

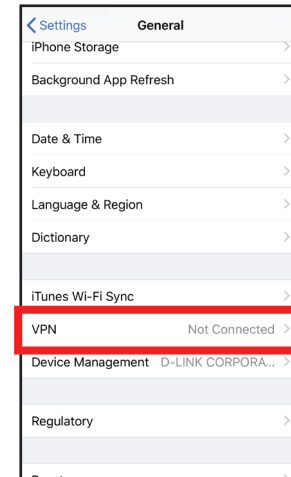
- Quick VPN only provides an added layer of security against specific types of snooping attacks and does not guarantee complete data integrity or protection. Only traffic in the tunnel between your router and device will be encrypted, WAN traffic will leave your D-Link Quick VPN enabled router unencrypted.
- Keep your Quick VPN Username, Password, and Passkey safe. Keep your Quick VPN Username, Password, and Passkey safe. It is recommended that you change these credentials periodically.
- A device connected via Quick VPN tunnel may experience lower data throughput and higher latency due to a number of factors including: Internet conditions, local and remote network Wi-Fi and WAN bandwidth limitations, and increased latency. This may negatively impact real time voice and video communication.
- Quick VPN supports up to five concurrent VPN client sessions using the same login and password are supported. Quick VPN uses L2TP/IPsec with MSCHAPv2, PAP, or CHAP authentication.
- Your device may warn you that your information may be intercepted, since you control the Quick VPN server, you may ignore this.
- UDP Ports 500, 4500, 1701 and IP Port 50 must be open in order for Quick VPN to work.
- L2TP/IPsec VPN usage may be restricted in some countries and on some networks. If you have trouble using Quick VPN on some networks, but not others and are not violating network access rules, try contacting your ISP or network administrator.
- Devices connected via Quick VPN are assigned addresses on a separate subnet (ex. 192.168.1.x). Some network resources may be unavailable when connecting via Quick VPN.
- If your Internet connection uses DHCP, it is strongly recommended that you first set up Dynamic DNS (DDNS), such as D-Link DDNS, to eliminate the need to reconfigure client devices in the event your ISP assigns you a new WAN IP address.

iOS Devices

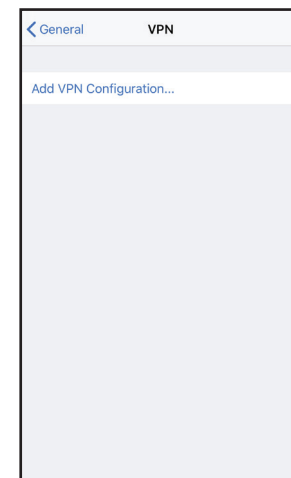
VPN Setup Instructions

This section provides Quick VPN setup instructions for iOS devices. Refer to **Quick VPN** on page **82** for your router setup instructions.

Go into **Settings** on your compatible iOS device.
Scroll to and tap **General**.
Scroll to and tap **VPN**.



Tap **Add VPN Configuration...**



You should see a pop up window asking you to fill out the details of your VPN connection.

Type: Choose **IPSec**. Tap **Back** to return to the Add Configuration page.

Description: For reference purposes only, used to differentiate between multiple VPN connections.

Server: Enter the IP/DDNS address of your Quick VPN server.

Account: Enter the Username used to authenticate login to VPN server

Password: Enter Password used to authenticate login to VPN server

Secret: Enter your Passkey (PSK).

Tap **Done** at the top right corner of the page to finish adding the configuration.

Your iOS device is now configured to connect to your Quick VPN server.

CancelQuick VPNDone

TypeIPsec

DescriptionQuick VPN

ServerIP/DDNS_address_of_QuickVPN

Accountvpn

Password●●●

Use Certificate☐

Group Name

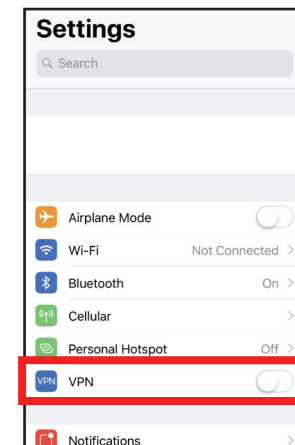
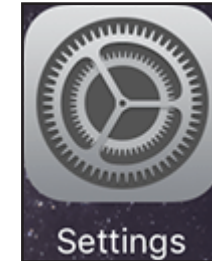
Secret●●●●●●

PROXY

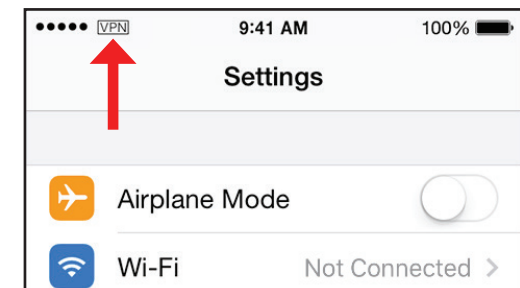
OffManualAuto

Connect or Disconnect

To connect or disconnect from to your Quick VPN server, open **Settings** and tap the button next to **VPN**.



The VPN icon will appear in the notification area at the top of your screen indicating that your device is currently connected to the Quick VPN server.



Mac OS X

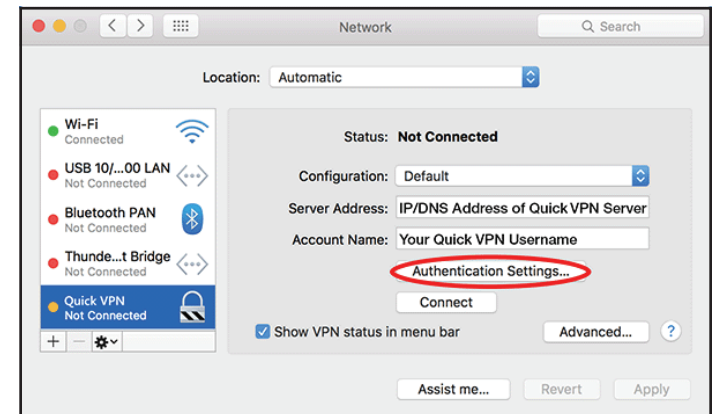
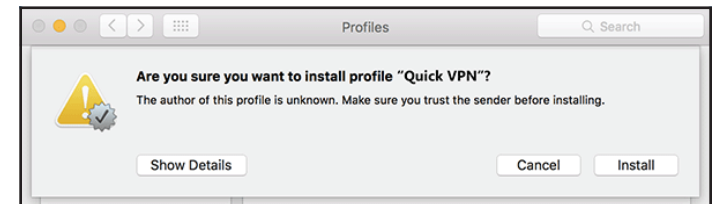
VPN Setup Instructions

This section provides Quick VPN setup instructions for OS X using the **Export** Profile function. Refer to **Quick VPN** on page **82** for your router setup instructions.

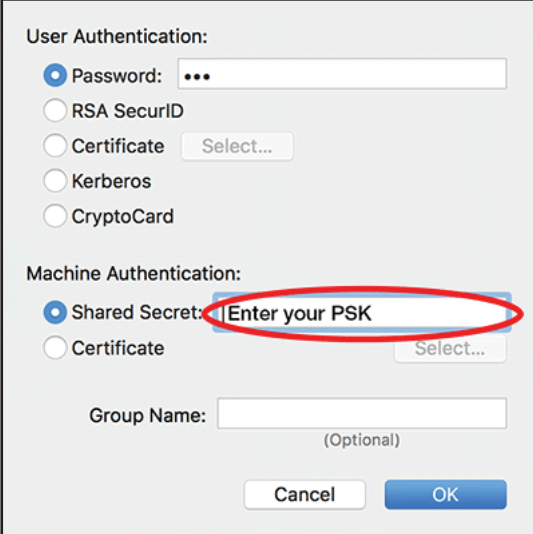
Open the exported profile. The Install Profile dialogue will appear; click **Continue** and **Install**.

Enter your user account password when prompted. Close the **Profiles** dialogue.

Go to **Apple > System Preferences... > Network** and select the Quick VPN connection and click **Authentication Settings**.



Enter your **Passkey** in the **Shared Secret** text box and click **OK, Apply**, then **OK**.



The screenshot shows a configuration window with two main sections: "User Authentication" and "Machine Authentication".

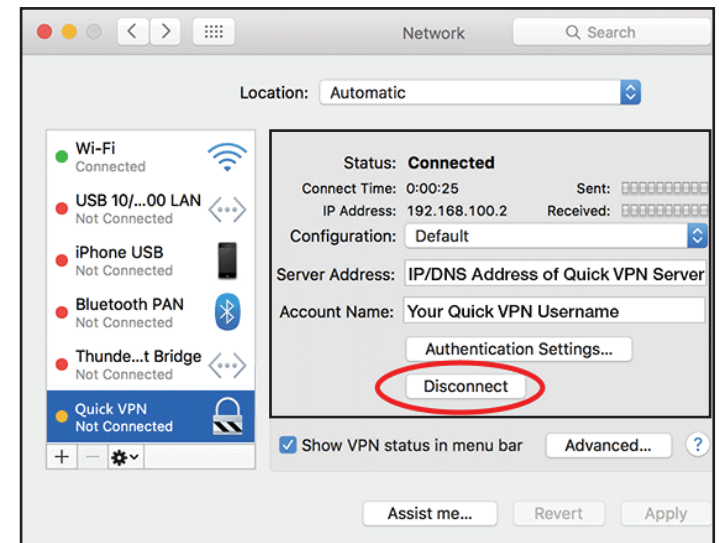
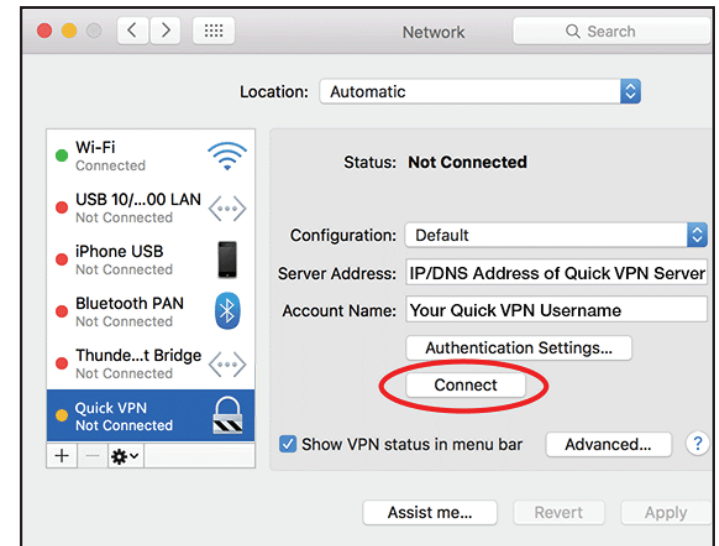
- User Authentication:** Includes radio buttons for "Password", "RSA SecurID", "Certificate", "Kerberos", and "CryptoCard". The "Password" option is selected, and its corresponding text box contains three dots.
- Machine Authentication:** Includes radio buttons for "Shared Secret" and "Certificate". The "Shared Secret" option is selected, and its text box contains the text "Enter your PSK". This text box is highlighted with a red oval.
- Group Name:** A text box with the label "Group Name:" and the note "(Optional)" below it.
- Buttons:** "Cancel" and "OK" buttons at the bottom right.

Your Mac is now configured to connect to your Quick VPN server.

Connect or Disconnect

To connect to or disconnect from your Quick VPN server, go to **Apple > System Preferences... > Network**.

Select the Quick VPN connection and click on the **Connect** or **Disconnect** button.



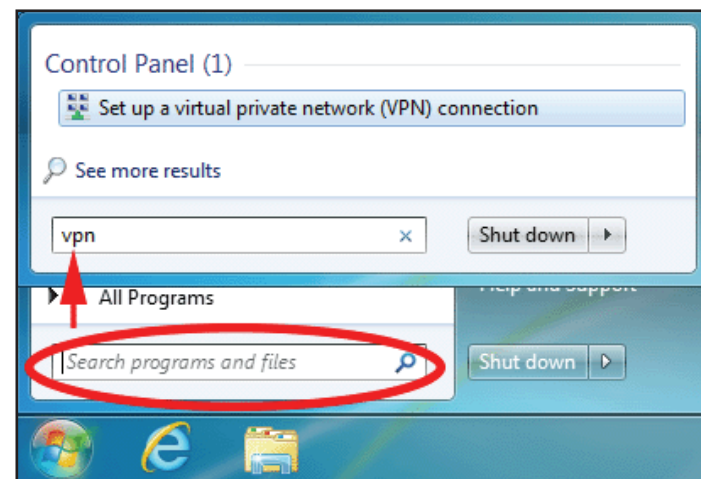
Windows 7

VPN Setup Instructions

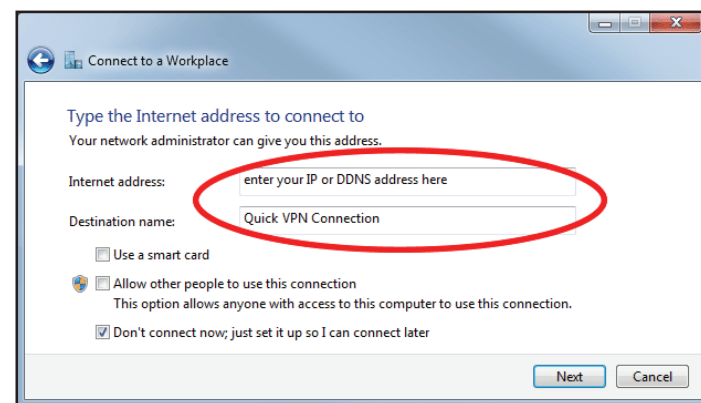
This section provides Quick VPN setup instructions for Windows 7. Refer to **Quick VPN** on page **82** for your router setup instructions.

Click the **Start** button and type **vpn** into the **Search programs and files** box.

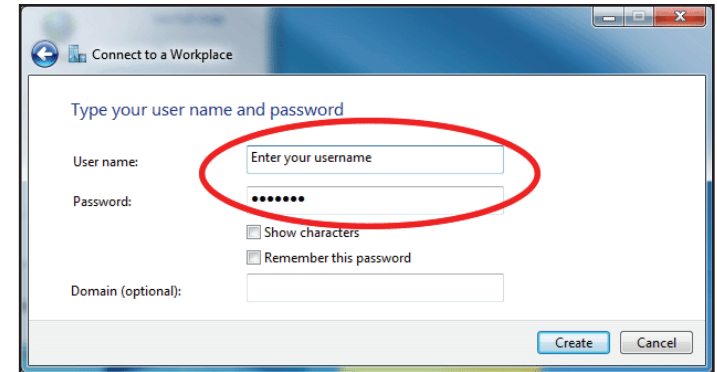
Select **Set up a virtual private network (VPN) connection**.



Enter the **IP/DDNS address** of your Quick VPN server in the **Internet address** box, create a name for your connection in the **Destination Name**, check **Don't Connect now; just set it up so I can connect later**, and click **Next**.

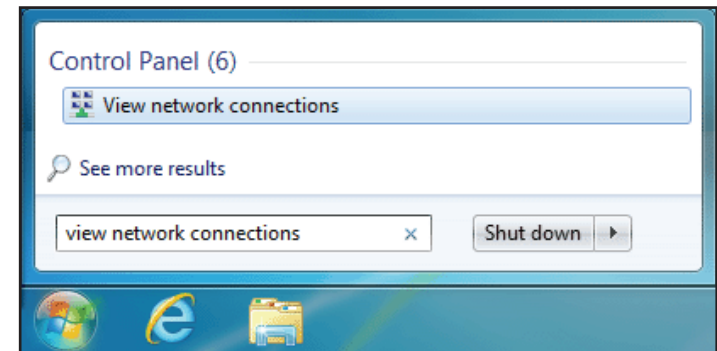


Enter your **Username**. If you would like windows to save your password, enter your **Password** and check **Remember this password**. Click **Create** to continue.



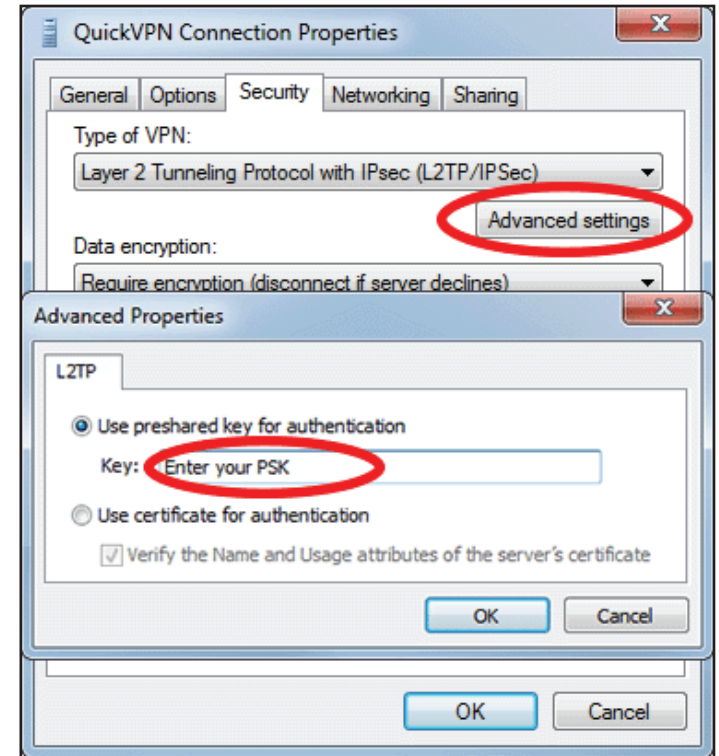
Do not click **Connect Now**.

Click **Close**. Click the **Start** button and type **view network connections** into the **Search programs and files** text box. Select **View network connections**.



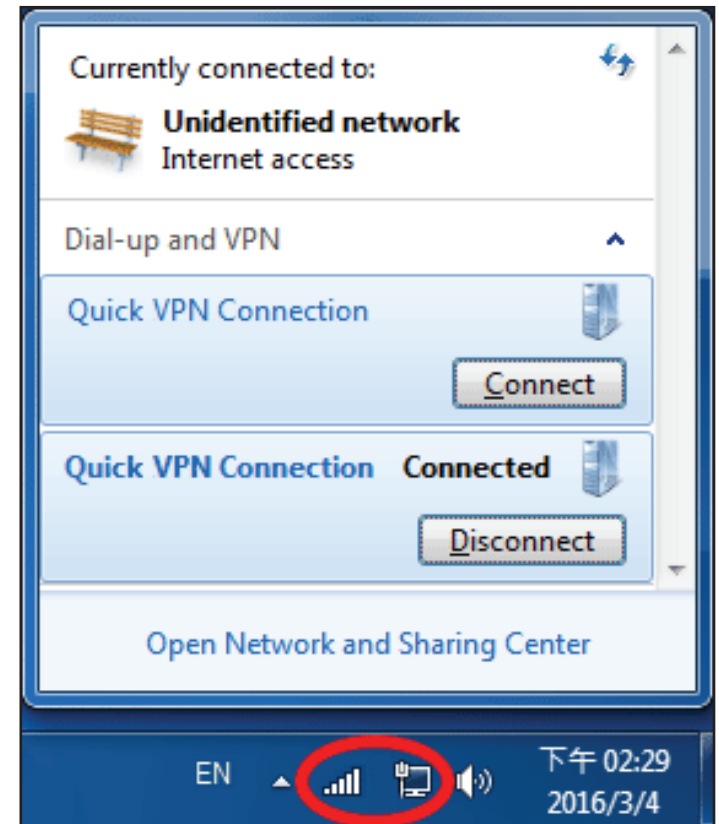
Click **Advanced settings**. Enter your **Passkey** in the **Key** text box under **Use preshared key for authentication**. Click **OK** to close **Advanced Properties** and click **OK** to close **Quick VPN Connection Properties**.

Your Windows 7 system is now configured to connect to your Quick VPN server.



Connect or Disconnect

To connect to or disconnect from your Quick VPN server, click on the **Network Settings** icon in the notification area of the Windows taskbar and from the **Dial Up and VPN** section click on your Quick VPN connection and click on the **Connect** or **Disconnect** button.



Windows 8.1/8

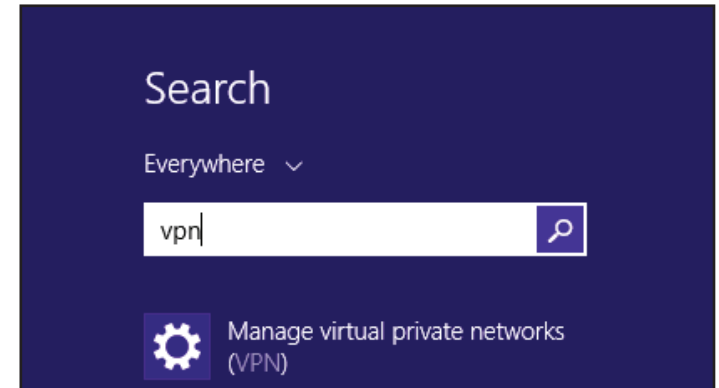
VPN Setup Instructions

This section provides Quick VPN setup instructions for Windows 8.1/8. Refer to **Quick VPN** on page **82** for your router setup instructions.

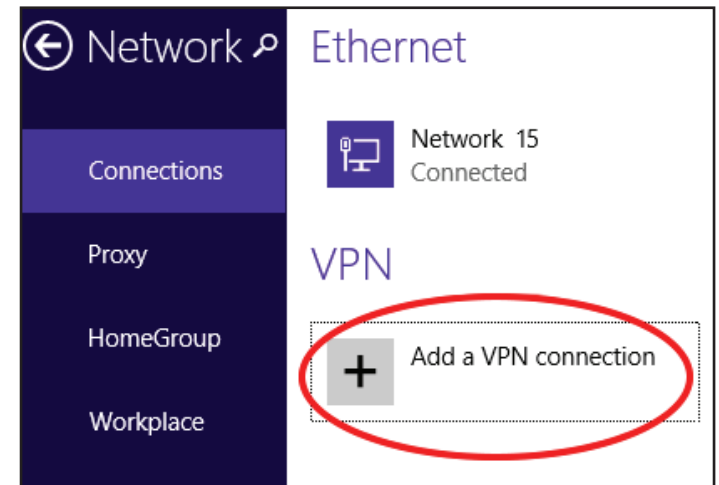
This section provides Quick VPN setup instructions for Windows 8.1/8.

Click the **Start** button and type **vpn**.

Select **Manage virtual private networks**.



From the Network Settings page, click **Add a VPN Connection**.

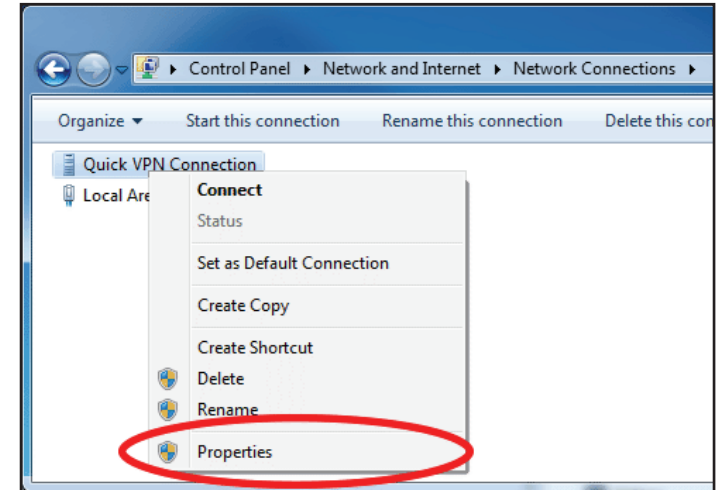


- 1 Select **Microsoft** from **VPN Provider**.
- 2 Create a name for your VPN connection.
- 3 Enter your **IP/DDNS address** of your Quick VPN server.
- 4 Select **User name and password** from **Type of sign-in info**.
- 5 If you would like windows to remember your sign-in information, enter your **User name, Password**, and select **Remember my sign-in info**
- 6 Choose **Save**.

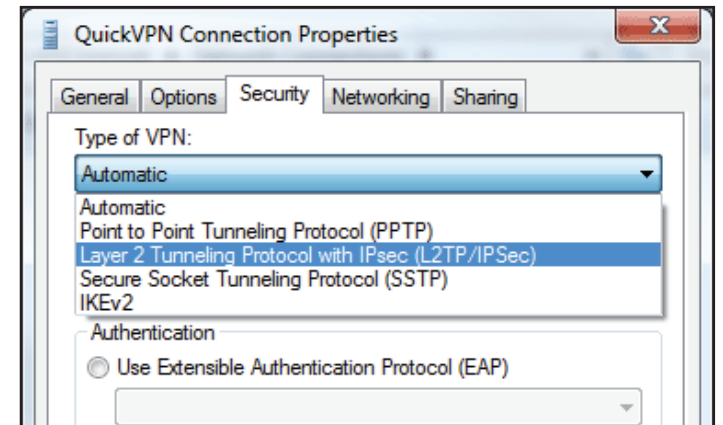
The screenshot shows the 'Add a VPN connection' dialog box with the following fields and steps:

- Step 1:** VPN provider dropdown menu set to 'Microsoft'.
- Step 2:** Connection name text box containing 'Quick VPN'.
- Step 3:** Server name or address text box containing 'IP/DDNS Address of Quick VPN Server'.
- Step 4:** Type of sign-in info dropdown menu set to 'User name and password'.
- Step 5:** A group of fields including 'User name (optional)' with 'Username', 'Password (optional)' with masked characters, and a checked 'Remember my sign-in info' checkbox.
- Step 6:** The 'Save' button.

Right-click on the Quick VPN Connection you just created and left-click on **Properties**.

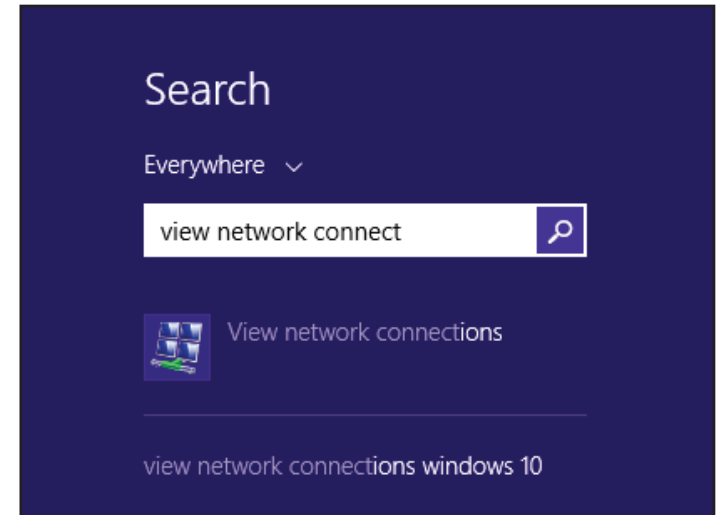


Select the **Security** tab. For the **Type of VPN**, select **Layer 2 Tunneling with IPsec (L2TP/IPSec)**.



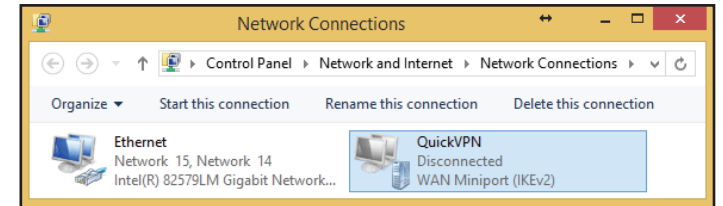
Click the **Start** button and type **view network connections**.

Select **View network connections**.



Right-click your **Quick VPN Connection** and left-click **Properties**.
Select the **Security** tab.

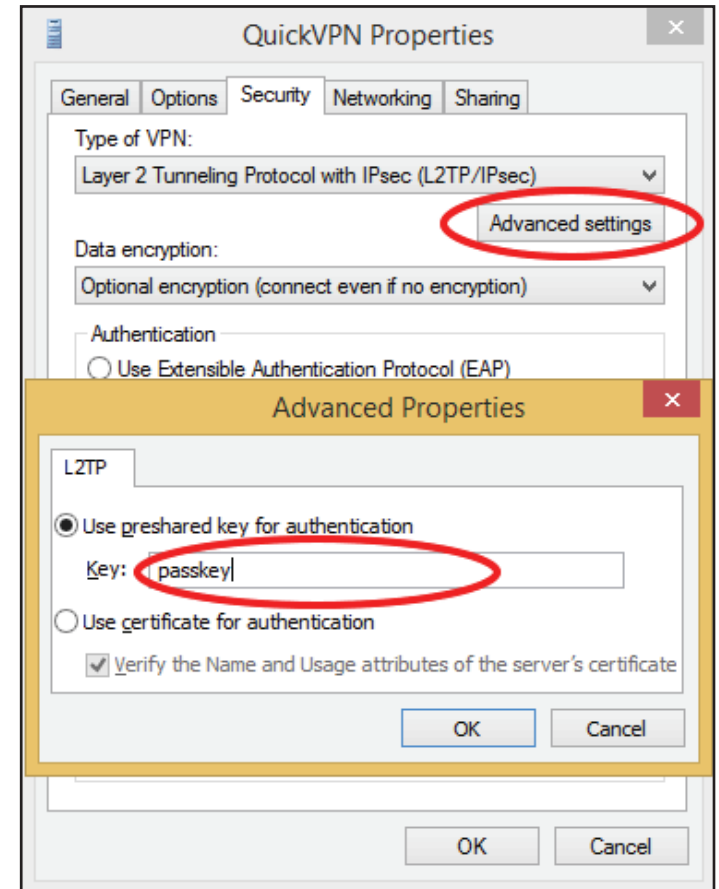
For the **Type of VPN**, select **Layer 2 Tunneling with IPsec (L2TP/IPSec)**.



Click **Advanced settings**. Enter your **Passkey** in the **Key** text box under **Use preshared key for authentication**.

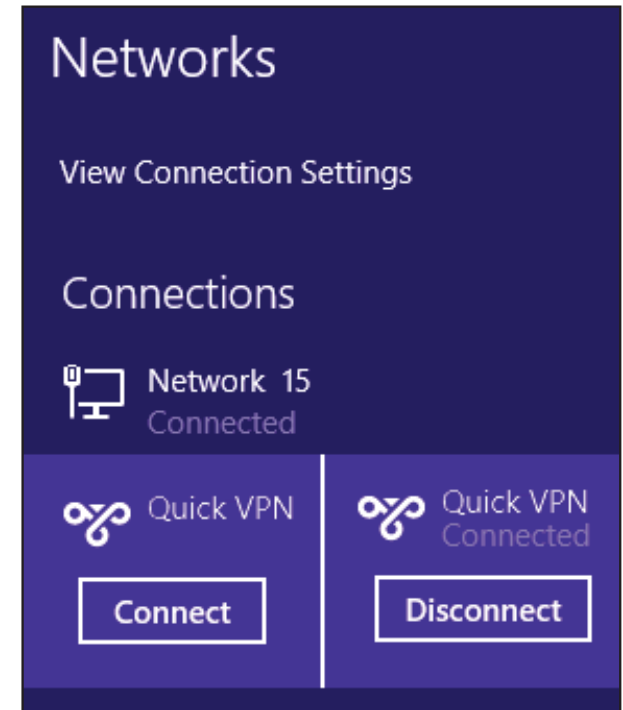
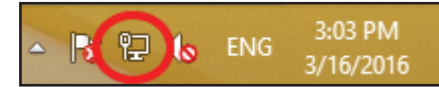
Click **OK** to close **Advanced Properties** and click **OK** to close **Quick VPN Properties**.

Your Windows 8.1/8 system is now configured to connect to your Quick VPN server.



Connect or Disconnect

To connect to or disconnect from your Quick VPN server, click on the **Network Settings** icon in the notification area of the Windows taskbar. Click on your Quick VPN connection and click on the **Connect** or **Disconnect** button.



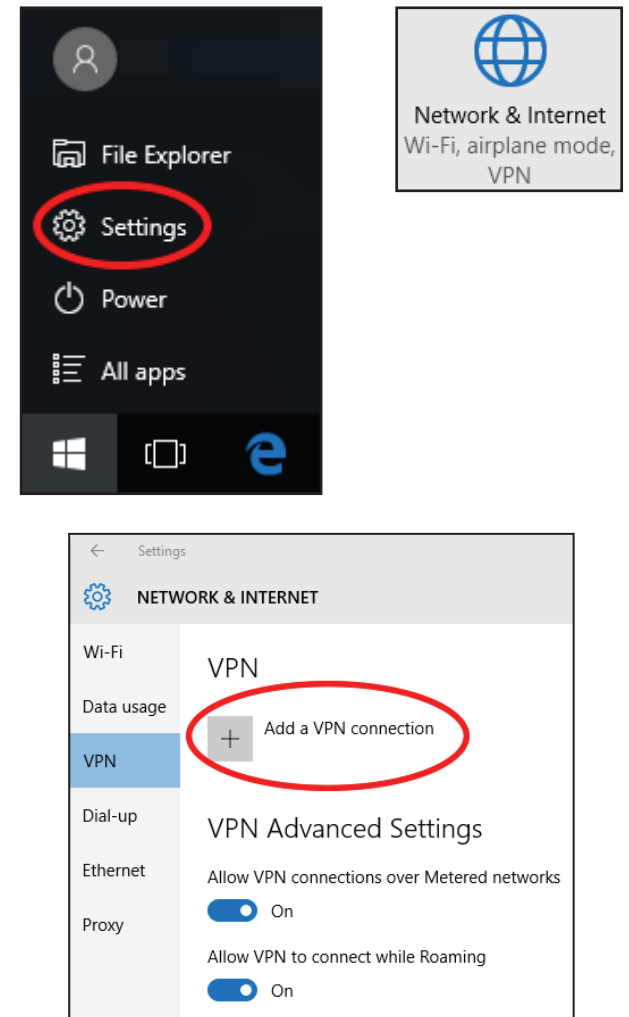
Windows 10

VPN Setup Instructions

This section provides Quick VPN setup instructions for Windows 7. Refer to **Quick VPN** on page **82** for your router setup instructions.

This section provides Quick VPN setup instructions for Windows 10.

Click **Start > Settings > Network & Internet > Network and Sharing Center > VPN > Add a VPN Connection.**



- 1 Select **Windows (built-in)** from the **VPN Provider** drop down menu.
- 2 Create a name for your VPN connection.
- 3 Enter your **IP/DDNS address** of your Quick VPN server.
- 4 Select **L2TP/IPSec with pre-shared key** from **VPN type**.
- 5 Enter the **Passkey**.
- 6 Select **User name and password** from **Type of sign-in info**.
If you would like windows to remember your sign-in information, enter your **User name, Password**, and select **Remember my sign-in info**
- 7 Choose **Save**.

Your Windows 10 system is now configured to connect to your Quick VPN server.

The screenshot shows the 'Add a VPN connection' window in Windows 10. The window has a blue header and a white body. The steps are numbered 1 through 7, corresponding to the instructions in the text. Step 1: 'VPN provider' dropdown menu is set to 'Windows (built-in)'. Step 2: 'Connection name' text box contains 'Quick VPN'. Step 3: 'Server name or address' text box contains 'IP/DDNS Address of Quick VPN Server'. Step 4: 'VPN type' dropdown menu is set to 'L2TP/IPsec with pre-shared key'. Step 5: 'Pre-shared key' text box contains 'Passkey'. Step 6: 'Type of sign-in info' dropdown menu is set to 'User name and password'. Below this, 'User name (optional)' text box contains 'Username' and 'Password (optional)' text box contains '.....'. Step 7: 'Remember my sign-in info' checkbox is checked. At the bottom right, there are 'Save' and 'Cancel' buttons.

Add a VPN connection

VPN provider

1 Windows (built-in)

Connection name

2 Quick VPN

Server name or address

3 IP/DDNS Address of Quick VPN Server

VPN type

4 L2TP/IPsec with pre-shared key

Pre-shared key

5 Passkey

Type of sign-in info

User name and password

User name (optional)

6 Username

Password (optional)

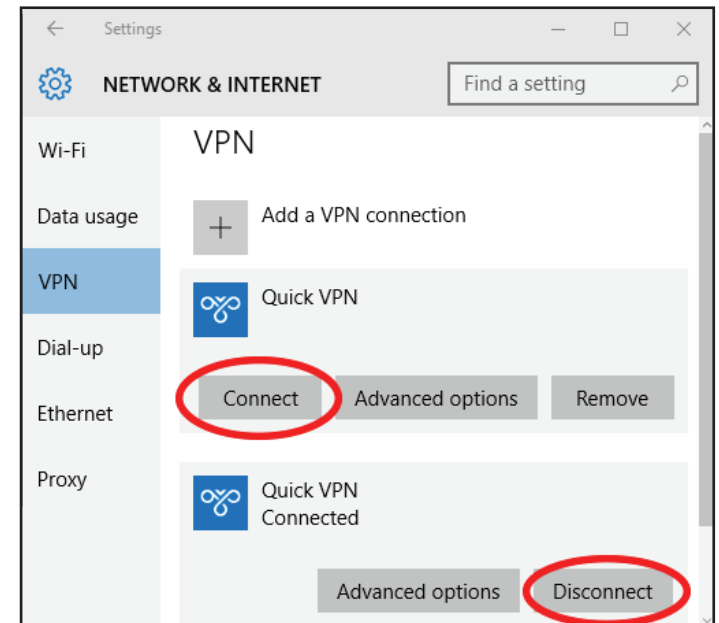
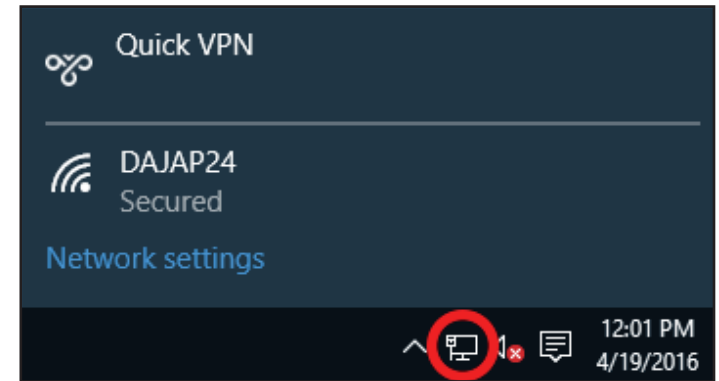
.....

☒ Remember my sign-in info

7 Save Cancel

Connect or Disconnect

To connect to or disconnect from your Quick VPN server, click on the **Network Settings** icon in the notification area of the Windows taskbar and click on your Quick VPN connection. The **Network & Internet** Settings page will open. Click on the **Connect** or **Disconnect** button.

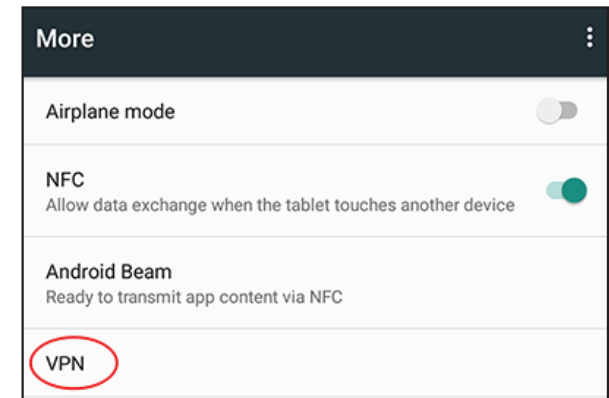
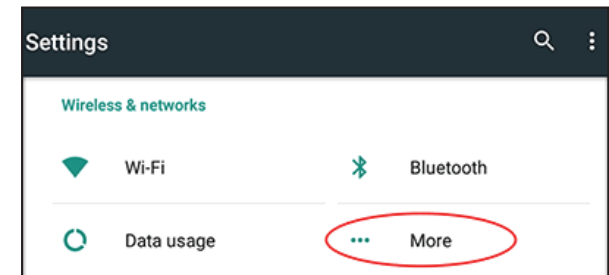


Android

VPN Setup Instructions

This section provides Quick VPN setup instructions for Android devices. Your device's screens may vary. Refer to **Quick VPN** on page **82** for your router setup instructions.

Go to **Settings** > **More** from the **Wireless & networks** > **VPN** > +



- 1 Enter a name for your VPN connection.
- 2 Select **L2TP/IPSec** PSK for **Type**.
- 3 Enter the **IP/DDNS address** of your Quick VPN server.
- 4 Enter your **Passkey** in **IPSec pre-shared key** field.
- 5 Choose **Save**.

Your Android device is now configured to connect to your Quick VPN server.

VPN

Edit VPN profile

Name

1 Quick VPN

Type

2 L2TP/IPSec PSK

Server address

3 Quick VPN IP/DDNS address

L2TP secret

(not used)

IPSec identifier

(not used)

IPSec pre-shared key

4

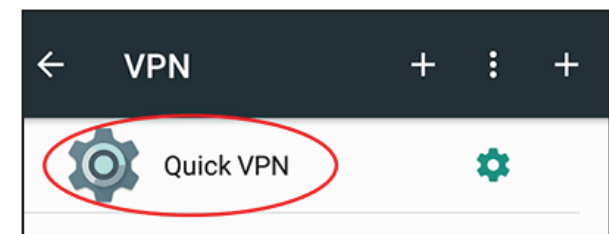
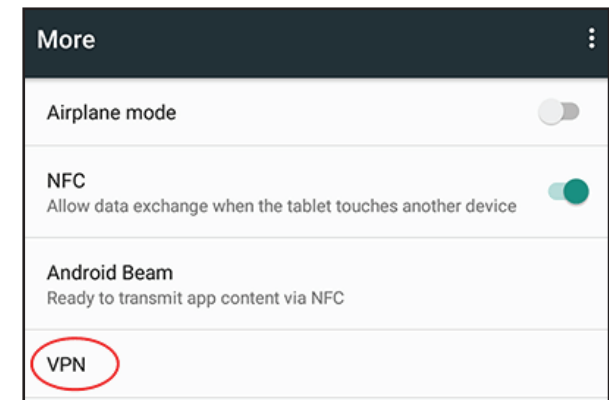
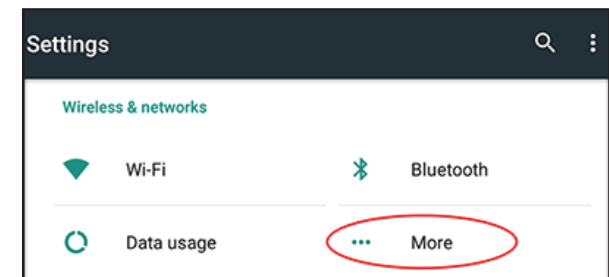
☐ Show advanced options

5

CANCEL SAVE

Connect or Disconnect

To connect to or disconnect from your Quick VPN server, go to **Settings** > **More** from the **Wireless & networks** > **VPN** and select the **Quick VPN** connection you created.



To connect, enter your **Username** and **Password** and select **CONNECT**.

Connect to Quick VPN

Username

Your Quick VPN Username

Password

.....

☐ Save account information

CANCELCONNECT

To disconnect, select **DISCONNECT**.

VPN is connected

Session: Quick VPN

Duration: 00:00:09

Sent: 97 bytes / 5 packets

Received: 64 bytes / 4 packets

DISCONNECTCANCEL

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 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 router for about 1 second. The wireless LEDs 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

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.

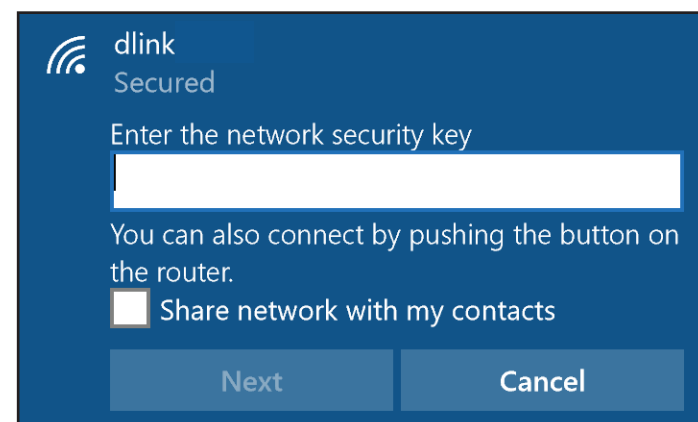
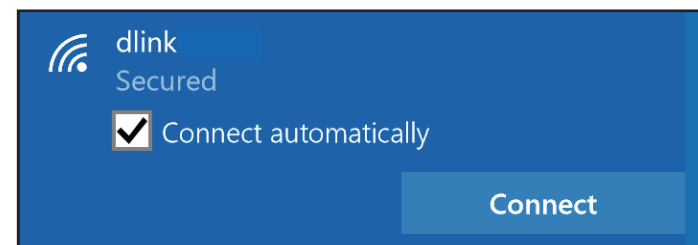
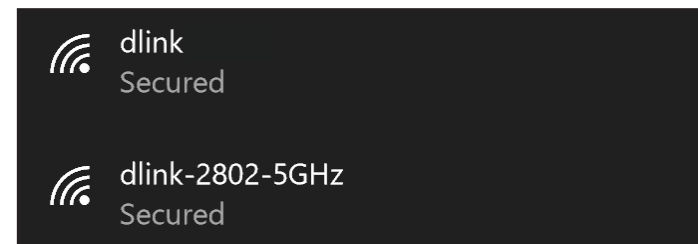
To connect to the SSID, click **Connect**.

To automatically connect with the router when your device next detects the SSID, check 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.

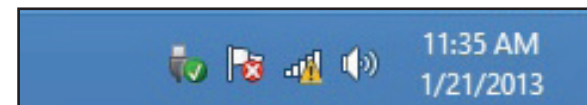


Wireless Icon



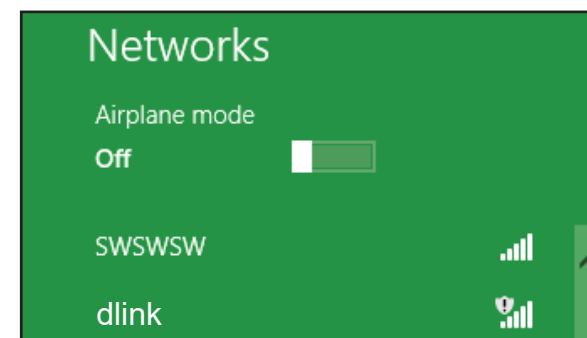
Windows® 8 - WPA/WPA2

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



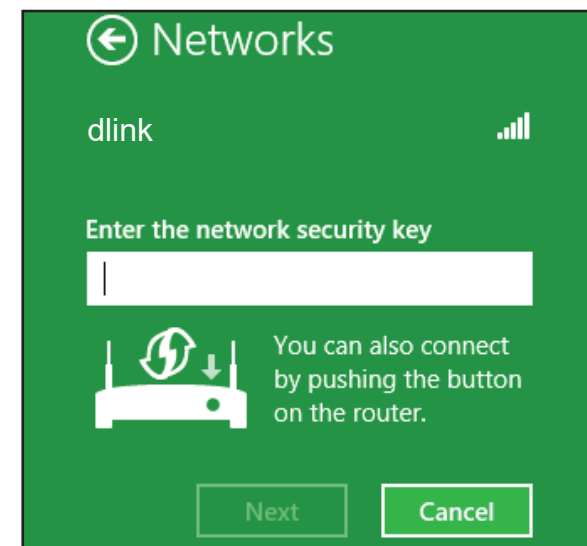
Wireless Icon

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

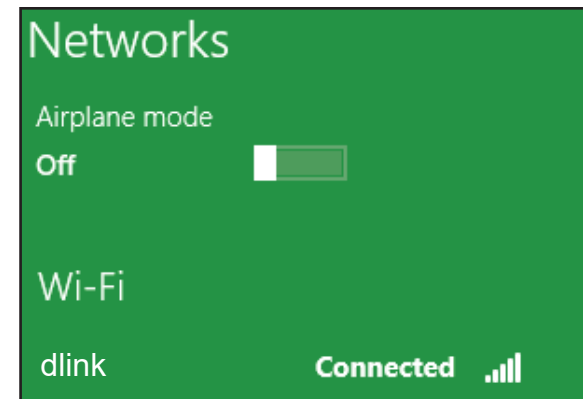


You will then be prompted to enter the network security key (Wi-Fi password) for the wireless network. Enter the password into the box and click **Next**.

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 at this point to enable the WPS function.



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



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.

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



Wireless Icon

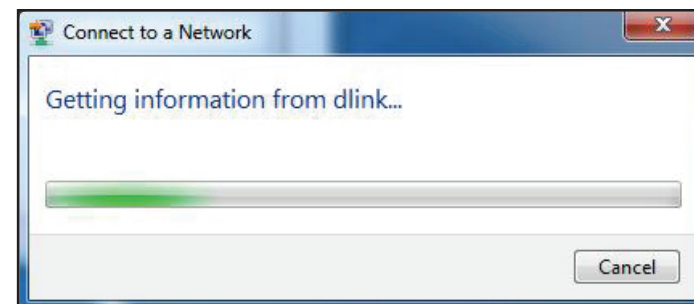
The utility will display any available wireless networks in your area.

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 **Networking Basics** on page **143** for more information.

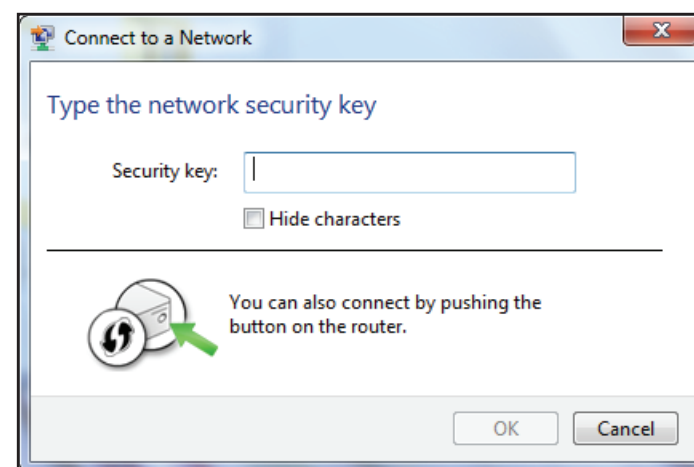


The following window appears while your computer tries to connect to the router.



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



Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the router. Read the following descriptions if you are having problems.

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:
 - Microsoft Internet Explorer® 10 or higher
 - Mozilla Firefox 28 or higher
 - Google™ Chrome 28 or higher
 - Apple Safari 6 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 and Norton Personal 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 recessed 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.

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 networks: 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 has 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 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

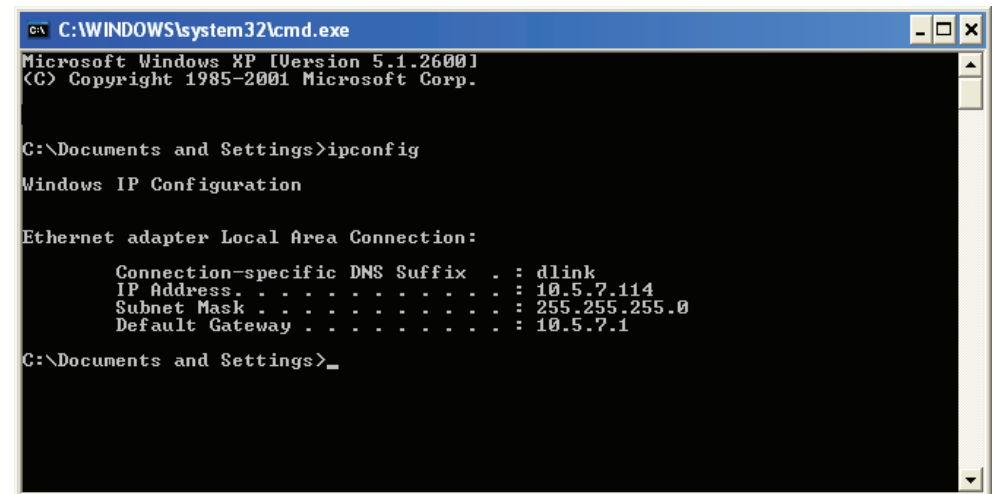
After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

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.



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : dlink
    IP Address. . . . . : 10.5.7.114
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 10.5.7.1

C:\Documents and Settings>
```

Statically Assign an IP address

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

- | | |
|-----------------------|--|
| Windows® 7 | Start > Control Panel > Network and Internet > Network and Sharing Center |
| Windows Vista® | Start > Control Panel > Network and Internet > Network and Sharing Center > Manage Network Connections |
| Windows® XP | Start > Control Panel > Network Connections |
| Windows® 2000 | From the desktop, right-click My Network Places > Properties |

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

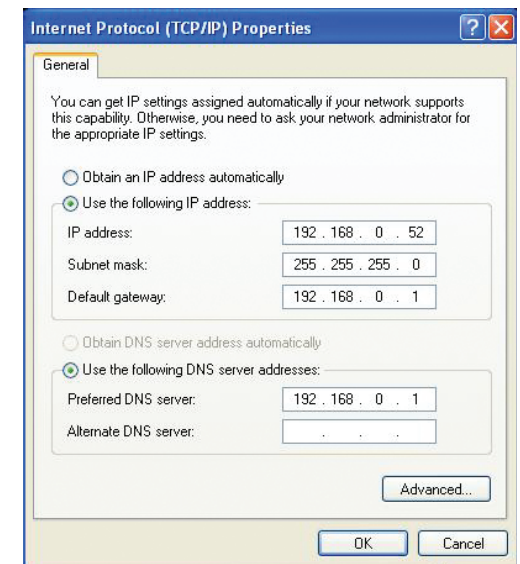
3. Highlight **Internet Protocol (TCP/IP)** and click **Properties**.

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.

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 router offers the following types of security:

- WPA3 (Wi-Fi Protected Access 3)
- WPA2-PSK (Pre-Shared Key)
- WPA-PSK (Pre-Shared Key)
- WPA2 (Wi-Fi Protected Access 2)
- WPA (Wi-Fi Protected Access)

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/WPA3-SAE uses a passphrase or key to authenticate your wireless connection. The key is an alphanumeric 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

Technical Specifications		
General		
Device Interfaces	• One 10/100/1000 Mbps Gigabit Ethernet WAN port • Three 10/100/1000 Mbps Gigabit Ethernet LAN ports	• IEEE 802.11 ax¹/ac/n/g/b/a wireless LAN
LEDs	• Power • Internet	• 2.4 G Wi-Fi • 5 G Wi-Fi
Antenna Type	• Four external antennas	
Wi-Fi Data Rate	• 2.4 GHz • Up to 600 Mbps²	• 5 GHz • Up to 1200 Mbps²
Standards	• IEEE 802.11ax • IEEE 802.11ac • IEEE 802.11n • IEEE 802.11g	• IEEE 802.11b • IEEE 802.11a • IEEE 802.3u • IEEE 802.3ab
Minimum Requirements	• Windows 10/8.1/8/7/Vista or MAC OS X 10.6 or higher • Supports Internet Explorer 10, Firefox 28.0, Chrome 28.0, Safari 6.0, and up	• Network Interface Card • Cable/DSL modem or other Internet service provider equipment with Ethernet port
Functionality		
Security	• WPA • WPA2 (Wi-Fi Protected Access)	• WPA3 (Wi-Fi Protected Access) • WPS (Wi-Fi Protected Setup)
Advanced Features	• D-Link Wi-Fi Mesh • Ookla SpeedTest • D-Link Wi-Fi App Setup and Configuration • QoS (Quality of Service) • DMZ (De-militarized Zone)	• Firewall - Network Address Translation (NAT) • Guest Zone • Multicast Support • Voice Assistant

Physical	
Dimensions	• 174 x 139 x 60.3 mm
Weight	• 280 g
Power Adaptor	• Input: 100 to 240 V AC, 50 / 60 Hz • Output: 12 V DC, 1 A
Temperature	• Operating: 0 to 40 °C (32 to 104 °F) • Storage: -20 to 65 °C (-4 to 149 °F)
Humidity	• Operating: 10% to 90% non-condensing • Storage: 5% to 95% non-condensing
Certifications	• FCC • IC • CE • NCC
Order Information	
Part Number	Description
DIR-X1860	AX1800 Wi-Fi 6 Router

¹ The DIR-X1860 may not support all of the mandatory features, established in Wave 1 of the IEEE 802.11ax specifications

² Maximum wireless signal rate derived from IEEE Standard 802.11ac and 802.11n specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, may lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.

Updated 06/16/2021

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.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

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.

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 22 cm between the radiator and your body.

Innovation, Science and Economic Development Canada (ISED) Statement:

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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

- (1) This device may not cause interference.
- (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 le brouillage est susceptible d'en compromettre le fonctionnement.

Caution :

- (i) the device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems;

Avertissement:

- (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 ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 22 cm between the radiator and your body.

Déclaration d'exposition aux radiations

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 22 cm de distance entre la source de rayonnement et votre corps.



	Frequency Band(s) Frequenzband Fréquence bande(s) Bandas de Frecuencia Frequenza/e Frequentie(s)	Max. Output Power (EIRP) Max. Output Power Consommation d'énergie max. Potencia máxima de Salida Potenza max. Output Max. Output Power
5 G	5.15 – 5.25 GHz	200 mW
	5.25 – 5.35 GHz	200 mW
	5.47 – 5.725 GHz	1 W
2.4 G	2.4 – 2.4835 GHz	100 mW

European Community Declaration of Conformity:

Česky [Czech]	Tímto D-Link Corporation prohlašuje, že tento produkt, jeho příslušenství a software jsou v souladu se směrnicí 2014/53/EU. Celý text ES prohlášení o shodě vydaného EU a o firmwaru produktu lze stáhnout na stránkách k produktu www.dlink.com .
Dansk [Danish]	D-Link Corporation erklærer herved, at dette produkt, tilbehør og software er i overensstemmelse med direktiv 2014/53/EU. Den fulde tekst i EU-overensstemmelseserklæringen og produktfirmware kan wnloades fra produktsiden hos www.dlink.com .
Deutsch [German]	Hiermit erklärt die D-Link Corporation, dass dieses Produkt, das Zubehör und die Software der Richtlinie 2014/53/EU entsprechen. Der vollständige Text der Konformitätserklärung der Europäischen Gemeinschaft sowie die Firmware zum Produkt stehen Ihnen zum Herunterladen von der Produktseite im Internet auf www.dlink.com zur Verfügung.
Eesti [Estonian]	Käesolevaga kinnitab D-Link Corporation, et see toode, tarvikud ja tarkvara on kooskõlas direktiiviga 2014/53/EL. Euroopa Liidu vastavusdeklaratsiooni täistekst ja toote püsivara on allalaadimiseks saadaval tootelehel www.dlink.com .
English	Hereby, D-Link Corporation, declares that this product, accessories, and software are in compliance with directive 2014/53/EU. The full text of the EU Declaration of Conformity and product firmware are available for download from the product page at www.dlink.com
Español [Spanish]	Por la presente, D-Link Corporation declara que este producto, accesorios y software cumplen con las directivas 2014/53/UE. El texto completo de la declaración de conformidad de la UE y el firmware del producto están disponibles y se pueden descargar desde la página del producto en www.dlink.com .
Ελληνική [Greek]	Με την παρούσα, η D-Link Corporation δηλώνει ότι αυτό το προϊόν, τα αξεσουάρ και το λογισμικό συμμορφώνονται με την Οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης της ΕΕ και το υλικολογισμικό του προϊόντος είναι διαθέσιμα για λήψη από τη σελίδα του προϊόντος στην τοποθεσία www.dlink.com .
Français [French]	Par les présentes, D-Link Corporation déclare que ce produit, ces accessoires et ce logiciel sont conformes aux directives 2014/53/UE. Le texte complet de la déclaration de conformité de l'UE et le microprogramme du produit sont disponibles au téléchargement sur la page des produits à www.dlink.com .
Italiano [Italian]	Con la presente, D-Link Corporation dichiara che questo prodotto, i relativi accessori e il software sono conformi alla direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE e il firmware del prodotto sono disponibili per il download dalla pagina del prodotto su www.dlink.com .

Latviski [Latvian]	Ar šo uzņēmums D-Link Corporation apliecina, ka šis produkts, piederumi un programmatūra atbilst direktīvai 2014/53/ES. ES atbilstības deklarācijas pilno tekstu un produkta aparātprogrammatūru var lejupielādēt attiecīgā produkta lapā vietnē www.dlink.com .
Lietuvių [Lithuanian]	Šiuo dokumentu „D-Link Corporation“ pareiškia, kad šis gaminys, priedai ir programinė įranga atitinka direktyvą 2014/53/ES. Visą ES atitikties deklaracijos tekstą ir gaminio programinę aparatinę įrangą galima atsisiųsti iš gaminio puslapio adresu www.dlink.com .
Nederlands [Dutch]	Hierbij verklaart D-Link Corporation dat dit product, accessoires en software voldoen aan de richtlijnen 2014/53/EU. De volledige tekst van de EU conformiteitsverklaring en productfirmware is beschikbaar voor download van de productpagina op www.dlink.com .
Malti [Maltese]	Bil-preżenti, D-Link Corporation tiddikjara li dan il-prodott, l-aċċessorji, u s-software huma konformi mad-Direttiva 2014/53/UE. Tista' tnizzel it-test sħiħ tad-dikjarazzjoni ta' konformità tal-UE u l-firmware tal-prodott mill-paġna tal-prodott fuq www.dlink.com .
Magyar [Hungarian]	Ezennel a D-Link Corporation kijelenti, hogy a jelen termék, annak tartozékai és szoftvere megfelelnek a 2014/53/EU sz. rendeletnek. Az EU Megfelelőségi nyilatkozat teljes szövege és a termék firmware a termék oldaláról tölthető le a www.dlink.com címen.
Polski [Polish]	D-Link Corporation niniejszym oświadcza, że ten produkt, akcesoria oraz oprogramowanie są zgodne z dyrektywami 2014/53/EU. Pełen tekst deklaracji zgodności UE oraz oprogramowanie sprzętowe do produktu można pobrać na stronie produktu w witrynie www.dlink.com .
Português [Portuguese]	Desta forma, a D-Link Corporation declara que este produto, os acessórios e o software estão em conformidade com a diretiva 2014/53/UE. O texto completo da declaração de conformidade da UE e do firmware
Slovensko[Slovenian]	Podjetje D-Link Corporation s tem izjavlja, da so ta izdelek, dodatna oprema in programnska oprema skladni z direktivami 2014/53/EU. Celotno besedilo izjave o skladnosti EU in vdelana programska oprema sta na voljo za prenos na strani izdelka na www.dlink.com .
Slovensky [Slovak]	Spoločnosť D-Link týmto vyhlasuje, že tento produkt, príslušenstvo a softvér sú v súlade so smernicou 2014/53/EÚ. Úplné znenie vyhlásenia EÚ o zhode a firmvéri produktu sú k dispozícii na prevzatie zo stránky produktu www.dlink.com .
Suomi [Finnish]	D-Link Corporation täten vakuuttaa, että tämä tuote, lisävarusteet ja ohjelmisto ovat direktiivin 2014/53/EU vaatimusten mukaisia. Täydellinen EU-vaatimustenmukaisuusvakuutus samoin kuin tuotteen laiteohjelmisto ovat ladattavissa osoitteesta www.dlink.com .
Svenska[Swedish]	D-Link Corporation försäkrar härmed att denna produkt, tillbehör och programvara överensstämmer med direktiv 2014/53/EU. Hela texten med EU-försäkran om överensstämmelse och produkt-firmware kan hämtas från produktsidan på www.dlink.com .

Íslenska [Icelandic]	Hér með lýsir D-Link Corporation því yfir að þessi vara, fylgihlutir og hugbúnaður eru í samræmi við tilskipun 2014/53/EB. Sækja má ESB-samræmisýfirlýsinguna í heild sinni og fastbúnað vörunnar af vefsíðu vörunnar á www.dlink.com .
Norsk [Norwegian]	Herved erklærer D-Link Corporation at dette produktet, tilbehøret og programvaren er i samsvar med direktivet 2014/53/EU. Den fullstendige teksten i EU-erklæring om samsvar og produktets fastvare er tilgjengelig for nedlasting fra produktsiden på www.dlink.com .

Warning Statement:

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

NOTICE OF WIRELESS RADIO LAN USAGE IN THE EUROPEAN COMMUNITY (FOR WIRELESS PRODUCT ONLY):

- 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. 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, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, and 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 band within the EU.
- Please refer to the product manual or datasheet to check whether your product uses 2.4 GHz and/or 5 GHz wireless.

HINWEIS ZUR VERWENDUNG VON DRAHTLOS-NETZWERK (WLAN) IN DER EUROPÄISCHEN GEMEINSCHAFT (NUR FÜR EIN DRAHTLOSES PRODUKT)

- Der Betrieb dieses Geräts in der Europäischen Gemeinschaft bei Nutzung von Kanälen im 5,15-5,35 GHz Frequenzband ist ausschließlich auf Innenräume beschränkt, um das Interferenzpotential zu reduzieren.
- Bei diesem Gerät handelt es sich um ein zum Einsatz in allen EU-Mitgliedsstaaten und in EFTA-Ländern - ausgenommen Frankreich. Der Betrieb dieses Geräts ist in den folgenden Ländern erlaubt: AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

Gebrauchshinweise:

- Um den in Europa geltenden nationalen Vorschriften zum Nutzen des Funkspektrums weiterhin zu entsprechen, werden Frequenz und Kanalbeschränkungen, dem jeweiligen Land, in dem das Gerät zum Einsatz kommt, entsprechend, auf die Produkte angewandt.
- Die Funktionalität im Ad-hoc-Modus bei Betrieb auf 5 GHz ist für dieses Gerät eingeschränkt. Bei dem Ad-hoc-Modus handelt es sich um eine Peer-to-Peer-Kommunikation zwischen zwei Client-Geräten ohne einen Access Point.
- Access Points unterstützen die Funktionen DFS (Dynamic Frequency Selection) und TPC (Transmit Power Control) wie erforderlich bei Betrieb auf 5 GHz innerhalb der EU.
- Bitte schlagen Sie im Handbuch oder Datenblatt nach, ob Ihr Gerät eine 2,4 GHz und / oder 5 GHz Verbindung nutzt.

AVIS CONCERNANT L'UTILISATION DE LA RADIO SANS FIL LAN DANS LA COMMUNAUTÉ EUROPÉENNE (UNIQUEMENT POUR LES PRODUITS SANS FIL)

- Cet appareil est limité à un usage intérieur lorsqu'il est utilisé dans la Communauté européenne sur les canaux de la bande de 5,15 à 5,35 GHz afin de réduire les risques d'interférences.
- Cet appareil est un système de transmission à large bande (émetteur-récepteur) de 2,4 GHz, destiné à être utilisé dans tous les États-membres de l'UE et les pays de l'AELE. Cet équipement peut être utilisé dans les pays suivants : AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

Notes d'utilisation:

- Pour rester en conformité avec la réglementation nationale européenne en matière d'utilisation du spectre, des limites de fréquence et de canal seront appliquées aux produits selon le pays où l'équipement sera déployé.
- Cet appareil ne peut pas utiliser le mode Ad-hoc lorsqu'il fonctionne dans la bande de 5 GHz. Le mode Adhoc fournit une communication directe pair à pair entre deux périphériques clients sans point d'accès.
- Les points d'accès prendront en charge les fonctionnalités DFS (Dynamic Frequency Selection) et TPC (Transmit Power Control) au besoin lors du fonctionnement dans la bande de 5 GHz au sein de l'UE.
- Merci de vous référer au guide d'utilisation ou de la fiche technique afin de vérifier si votre produit utilise 2.4 GHz et/ou 5 GHz sans fil.

AVISO DE USO DE LA LAN DE RADIO INALÁMBRICA EN LA COMUNIDAD EUROPEA (SOLO PARA EL PRODUCTO INALÁMBRICO)

- El uso de este dispositivo está restringido a interiores cuando funciona en la Comunidad Europea utilizando canales en la banda de 5,15-5,35 GHz, para reducir la posibilidad de interferencias.
- Este dispositivo es un sistema de transmisión (transceptor) de banda ancha de 2,4 GHz, pensado para su uso en todos los estados miembros de la UE y en los países de la AELC. Este equipo se puede utilizar en AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

Notas de uso:

- Para seguir cumpliendo las normas europeas de uso del espectro nacional, se aplicarán limitaciones de frecuencia y canal en los productos en función del país en el que se pondrá en funcionamiento el equipo.
- Este dispositivo tiene restringido el funcionamiento en modo Ad-hoc mientras funcione a 5 Ghz. El modo Ad-hoc es la comunicación directa de igual a igual entre dos dispositivos cliente sin un punto de acceso.
- Los puntos de acceso admitirán la funcionalidad DFS (Selección de frecuencia dinámica) y TPC (Control de la potencia de transmisión) si es necesario cuando funcionan a 5 Ghz dentro de la UE.
- Por favor compruebe el manual o la ficha de producto para comprobar si el producto utiliza las bandas inalámbricas de 2.4 GHz y/o la de 5 GHz.

AVVISO PER L'USO DI LAN RADIO WIRELESS NELLA COMUNITÀ EUROPEA (SOLO PER PRODOTTI WIRELESS)

- Nella Comunità europea, l'uso di questo dispositivo è limitato esclusivamente agli ambienti interni sui canali compresi nella banda da 5,15 a 5,35 GHz al fine di ridurre potenziali interferenze. Questo dispositivo è un sistema di trasmissione a banda larga a 2,4 GHz (ricetrasmittente), destinato all'uso in tutti gli stati membri dell'Unione europea e nei paesi EFTA.
- Questo dispositivo può essere utilizzato in AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

Note per l'uso

- Al fine di mantenere la conformità alle normative nazionali europee per l'uso dello spettro di frequenze, saranno applicate limitazioni sulle frequenze e sui canali per il prodotto in conformità alle normative del paese in cui il dispositivo viene utilizzato.
- Questo dispositivo non può essere attivato in modalità Ad-hoc durante il funzionamento a 5 GHz. La modalità Ad-hoc è una comunicazione diretta peer-to-peer fra due dispositivi client senza un punto di accesso.
- I punti di accesso supportano le funzionalità DFS (Dynamic Frequency Selection) e TPC (Transmit Power Control) richieste per operare a 5 GHz nell'Unione europea.
- Ti invitiamo a fare riferimento al manuale del prodotto o alla scheda tecnica per verificare se il tuo prodotto utilizza le frequenze 2,4 GHz e/o 5 GHz.

KENNISGEVING VAN DRAADLOOS RADIO LAN-GEBRUIK IN DE EUROPESE GEMEENSCHAP (ALLEEN VOOR DRAADLOOS PRODUCT)

- Dit toestel is beperkt tot gebruik binnenshuis wanneer het wordt gebruikt in de Europese Gemeenschap gebruik makend van kanalen in de 5.15-5.35 GHz band om de kans op interferentie te beperken.
- Dit toestel is een 2.4 GHz breedband transmissiesysteem (transceiver) dat bedoeld is voor gebruik in alle EU lidstaten en EFTA landen. Deze uitrusting mag gebruikt worden in AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

Gebruiksaanwijzingen:

- Om de gebruiksvoorschriften van het Europese Nationale spectrum na te leven, zullen frequentie- en kanaalbeperkingen worden toegepast op de producten volgens het land waar de uitrusting gebruikt zal worden.
- Dit toestel kan niet functioneren in Ad-hoc mode wanneer het gebruikt wordt in 5 GHz. Ad-hoc mode is directe peer-to-peer communicatie tussen twee klantenapparaten zonder een toegangspunt.
- Toegangspunten ondersteunen DFS (Dynamic Frequency Selection) en TPC (Transmit Power Control) functionaliteit zoals vereist bij gebruik in 5 GHz binnen de EU.
- Raadpleeg de handleiding of de datasheet om te controleren of uw product gebruik maakt van 2.4 GHz en/of 5 GHz.

SAFETY INSTRUCTIONS

The following general safety guidelines are provided to help ensure your own personal safety and protect your product from potential damage. Remember to consult the product user instructions for more details.

- Static electricity can be harmful to electronic components. Discharge static electricity from your body (i.e. touching grounded bare metal) before touching the product.
- Do not attempt to service the product and never disassemble the product. For some products with a user replaceable battery, please read and follow the instructions in the user manual.
- Do not spill food or liquid on your product and never push any objects into the openings of your product.
- Do not use this product near water, areas with high humidity, or condensation unless the product is specifically rated for outdoor application.
- Keep the product away from radiators and other heat sources.
- Always unplug the product from mains power before cleaning and use a dry lint free cloth only.

SICHERHEITSVORSCHRIFTEN

Die folgenden allgemeinen Sicherheitsvorschriften dienen als Hilfe zur Gewährleistung Ihrer eigenen Sicherheit und zum Schutz Ihres Produkts. Weitere Details finden Sie in den Benutzeranleitungen zum Produkt.

- Statische Elektrizität kann elektronischen Komponenten schaden. Um Schäden durch statische Aufladung zu vermeiden, leiten Sie elektrostatische Ladungen von Ihrem Körper ab, (z. B. durch Berühren eines geerdeten blanken Metallteils), bevor Sie das Produkt berühren.
- Unterlassen Sie jeden Versuch, das Produkt zu warten, und versuchen Sie nicht, es in seine Bestandteile zu zerlegen. Für einige Produkte mit austauschbaren Akkus lesen Sie bitte das Benutzerhandbuch und befolgen Sie die dort beschriebenen Anleitungen.
- Vermeiden Sie, dass Speisen oder Flüssigkeiten auf Ihr Produkt gelangen, und stecken Sie keine Gegenstände in die Gehäuseschlitze oder -öffnungen Ihres Produkts.
- Verwenden Sie dieses Produkt nicht in unmittelbarer Nähe von Wasser und nicht in Bereichen mit hoher Luftfeuchtigkeit oder Kondensation, es sei denn, es ist speziell zur Nutzung in Außenbereichen vorgesehen und eingestuft.
- Halten Sie das Produkt von Heizkörpern und anderen Quellen fern, die Wärme erzeugen.
- Trennen Sie das Produkt immer von der Stromzufuhr, bevor Sie es reinigen und verwenden Sie dazu ausschließlich ein trockenes fusselfreies Tuch.

CONSIGNES DE SÉCURITÉ

Les consignes générales de sécurité ci-après sont fournies afin d'assurer votre sécurité personnelle et de protéger le produit d'éventuels dommages. Veuillez consulter les consignes d'utilisation du produit pour plus de détails.

- L'électricité statique peut endommager les composants électroniques. Déchargez l'électricité statique de votre corps (en touchant un objet en métal relié à la terre par exemple) avant de toucher le produit.
- N'essayez pas d'intervenir sur le produit et ne le démontez jamais. Pour certains produits contenant une batterie remplaçable par l'utilisateur, veuillez lire et suivre les consignes contenues dans le manuel d'utilisation.
- Ne renversez pas d'aliments ou de liquide sur le produit et n'insérez jamais d'objets dans les orifices.
- N'utilisez pas ce produit à proximité d'un point d'eau, de zones très humides ou de condensation sauf si le produit a été spécifiquement conçu pour une application extérieure.
- Éloignez le produit des radiateurs et autres sources de chaleur.
- Débranchez toujours le produit de l'alimentation avant de le nettoyer et utilisez uniquement un chiffon sec non pelucheux.

INSTRUCCIONES DE SEGURIDAD

Las siguientes directrices de seguridad general se facilitan para ayudarle a garantizar su propia seguridad personal y para proteger el producto frente a posibles daños. No olvide consultar las instrucciones del usuario del producto para obtener más información.

- La electricidad estática puede resultar nociva para los componentes electrónicos. Descargue la electricidad estática de su cuerpo (p. ej., tocando algún metal sin revestimiento conectado a tierra) antes de tocar el producto.
- No intente realizar el mantenimiento del producto ni lo desmonte nunca. Para algunos productos con batería reemplazable por el usuario, lea y siga las instrucciones del manual de usuario.
- No derrame comida o líquidos sobre el producto y nunca deje que caigan objetos en las aberturas del mismo.
- No utilice este producto cerca del agua, en zonas con humedad o condensación elevadas a menos que el producto esté clasificado específicamente para aplicación en exteriores.
- Mantenga el producto alejado de los radiadores y de otras fuentes de calor.
- Desenchufe siempre el producto de la alimentación de red antes de limpiarlo y utilice solo un paño seco sin pelusa.

ISTRUZIONI PER LA SICUREZZA

Le seguenti linee guida sulla sicurezza sono fornite per contribuire a garantire la sicurezza personale degli utenti e a proteggere il prodotto da potenziali danni. Per maggiori dettagli, consultare le istruzioni per l'utente del prodotto.

- L'elettricità statica può essere pericolosa per i componenti elettronici. Scaricare l'elettricità statica dal corpo (ad esempio toccando una parte metallica collegata a terra) prima di toccare il prodotto.
- Non cercare di riparare il prodotto e non smontarlo mai. Per alcuni prodotti dotati di batteria sostituibile dall'utente, leggere e seguire le istruzioni riportate nel manuale dell'utente.
- Non versare cibi o liquidi sul prodotto e non spingere mai alcun oggetto nelle aperture del prodotto.
- Non usare questo prodotto vicino all'acqua, in aree con elevato grado di umidità o soggette a condensa a meno che il prodotto non sia specificatamente approvato per uso in ambienti esterni.
- Tenere il prodotto lontano da caloriferi e altre fonti di calore.
- Scollegare sempre il prodotto dalla presa elettrica prima di pulirlo e usare solo un panno asciutto che non lasci filacce.

VEILIGHEIDSinFORMATIE

De volgende algemene veiligheidsinformatie werd verstrekt om uw eigen persoonlijke veiligheid te waarborgen en uw product te beschermen tegen mogelijke schade. Denk eraan om de gebruikersinstructies van het product te raadplegen voor meer informatie.

- Statische elektriciteit kan schadelijk zijn voor elektronische componenten. Ontlaad de statische elektriciteit van uw lichaam (d.w.z. het aanraken van geaard bloot metaal) voordat u het product aanraakt.
- U mag nooit proberen het product te onderhouden en u mag het product nooit demonteren. Voor sommige producten met door de gebruiker te vervangen batterij, dient u de instructies in de gebruikershandleiding te lezen en te volgen.
- Mors geen voedsel of vloeistof op uw product en u mag nooit voorwerpen in de openingen van uw product duwen.
- Gebruik dit product niet in de buurt van water, gebieden met hoge vochtigheid of condensatie, tenzij het product specifiek geclassificeerd is voor gebruik buitenshuis.
- Houd het product uit de buurt van radiators en andere warmtebronnen.
- U dient het product steeds los te koppelen van de stroom voordat u het reinigt en gebruik uitsluitend een droge pluisvrije doek.

Disposing and Recycling Your Product



EN

ENGLISH



This symbol on the product or packaging means that according to local laws and regulations this product should 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**FR**

Ce symbole apposé sur le produit ou son emballage signifie que, conformément aux lois et réglementations 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**IT**

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**NL**

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**PL**

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**CZ**

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, odnese jej prosím na sběrné místo určené místními úřady k tomuto účelu. Někteří 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**HU**

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 elköteleztük magunkat a műveleteink és termékeink környezetre gyakorolt hatásainak csökkentésére. Az ezen hatás csökkentése érdekében a D-Link a lehető leginkább környezetbarát termékeket tervez és gyárt azért, hogy újrahasznosítható, alacsony károsanyag-tartalmú 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**NO**

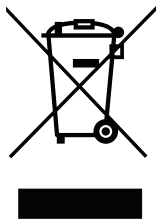
Dette symbolet på produktet eller forpakningen betyr at dette produktet ifølge lokale lover og forskrifter ikke skal kastes sammen med husholdningsavfall, men leveres inn til gjenvinning. Vennligst ta det til et innsamlingssted anvist av lokale myndigheter når det er kommet til slutten av levetiden. Noen steder aksepterer 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**DK**

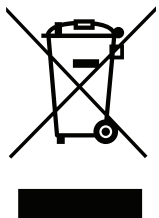
Dette symbol på produktet eller emballagen betyder, at dette produkt i henhold til lokale love og regler ikke må bortskaffes som husholdningsaffald, mens skal sendes til genbrug. Indlever produktet til et indsamlingssted som angivet af de lokale myndigheder, når det er nået til slutningen af dets levetid. 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**FI**

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.

Suosittelamme, 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**SE**

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**PT**

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

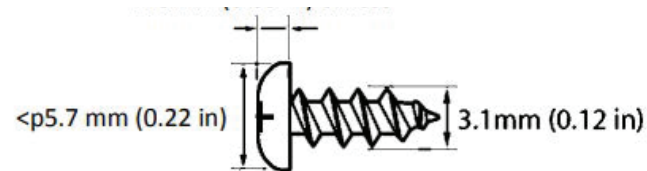
Na D-Link compreendemos e comprometemo-nos com a redução do impacto que as nossas operações e produtos possam ter no ambiente. Para minimizar este impacto a D-Link concebe e constrói os seus produtos para que estes sejam o mais inofensivos para o ambiente possível, utilizando materiais recicláveis e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

Wall Mounting

To mount the unit directly onto a wall, use 2 screws (not included) with the dimensions shown below. Install the screws 100 mm (3.94 in) apart and slide the mounting holes into the base of the router over them.



The screw head should project out from the wall at 7 mm (0.28 in) as shown below.

