Version 1.00 | 7/29/2025

User Manual

4G LTE AX1500 Wi-Fi 6 Router

G416C

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
A1	v1.00	July 29, 2025	Initial Version

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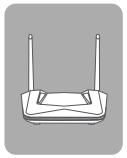
ErP Power Usage

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.

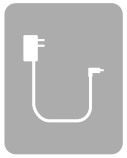
G416C	Network Standby: 2.6W Switched Off: 0.08W

Table of Contents

Product Overview
Package Contents

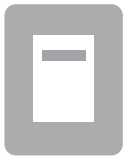


4G LTE AX1500 Wi-Fi 6 Router



Power Adapter (12V, 1A)

Ethernet Cable (1m)



Quick Installation Guide

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 or DSL modem • IEEE 802.11ax/ac/n/g/b/a wireless clients • A compatible Nano SIM/UICC card with mobile data service* • 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:** • Microsoft Edge • Firefox 28 or later • Safari 6 or later • Chrome 28 or later
EAGLE PRO AI APP Requirements	• iOS® or Android™ device (Please refer to the description of the app's page to check whether your device is compatible.)
* Subject to services and service terms available from your carrier.	

Introduction

With 4G LTE mobile broadband connectivity, the G416C is an ideal solution for residential use and small to mid-sized businesses. It supports 802.11ax Wi-Fi with speeds of up to 1500 Mbps, along with four 10/100/1000 Mbps Ethernet ports for reliable wired connections. The device accommodates various WAN access types and is configurable for both IPv4 and IPv6 addressing. In addition, it offers 4G and 3G mobile network compatibility, enabling high-speed internet access even in areas without wired broadband infrastructure.

Features

Smooth Wireless Connectivity with Backward Compatibility

The G416C leverages advanced Wi-Fi 6 technology to deliver high-speed web browsing, fast file transfers, and smooth 4K video streaming. Its dual-band connectivity with band steering automatically directs compatible devices to the 5 GHz band, reducing interference and enhancing overall network efficiency – especially in crowded environments – allowing multiple devices to access the Internet more effectively.

Integrated 3G/LTE Configuration and Functions

Configure the cellular connection parameters such as username/password and APN. You can also specify the LTE bands to operate on the router. Furthermore, the SMS includes message delivery and reception function.

Advanced Firewall for Better Network Security

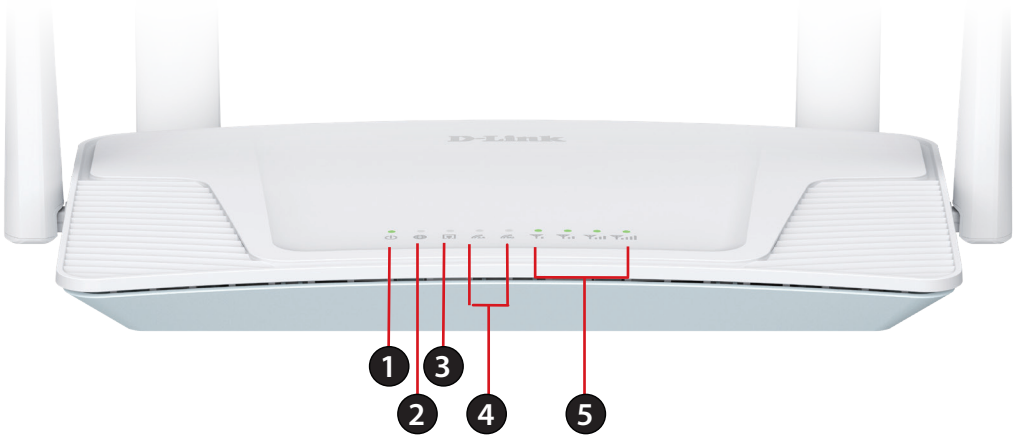
Port filtering controls the types of traffic allowed to pass through the router. IP/MAC address filtering restricts specific devices from accessing the Internet. URL filtering helps prevent access to undesirable websites and inappropriate online content.

Easy Setup and Flexible Management

Managing your Internet utilization has never been easier; just open your browser to access the Wizard page to set up your device. Furthermore, the support for industry-standard Wi-Fi Protected Setup (WPS) lets you create encrypted connections to new devices by pressing a button.

Hardware Overview

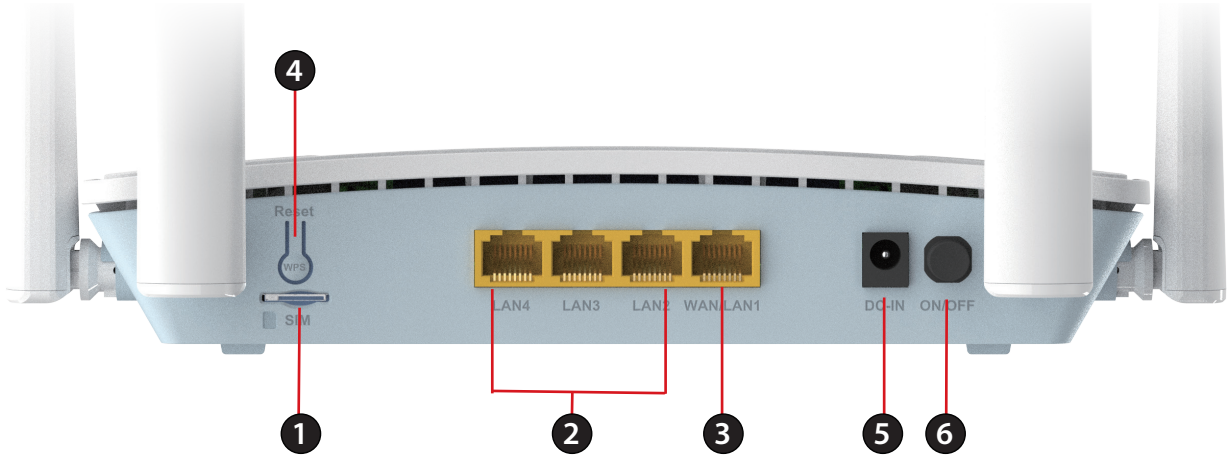
LED Indicators



1	**Power Indicator**	Solid Green	The device is powered on.
		Off	The devices is powered off.
2	**Internet**	Red	No Internet connection or connection failure.
		Solid Green	The device is connected to the Internet.
		Flashing Green	Data is being transmitted.
		Off	Internet connection is not established.

3	**WAN**	Solid green	The Ethernet WAN port is connected to the Internet.
		Blinking green	Data is being transmitted.
		Off	Not connected to the Internet.
4	**Wi-Fi (2.4G/5G)**	Solid Green	2.4/5Ghz Wi-Fi is in service.
		Flashing Green	• Fast: Data is being transmitted via Wi-Fi. • Slow: WPS process is in progress.
		Off	The 2.4/5GHz Wi-Fi is disabled.
5	**Cellular Signal Strength**	4 Bars	RSSI >= 25 dB; excellent
		3 Bars	20 < RSSI <= 25 dB; good
		2 Bars	10 < RSSI <= 20 dB; fair
		1 Bar	RSSI <= 10 dB; Weak

Back Panel



1	**SIM/UICC Card Slot**	Accepts a standard Nano SIM (4FF) card for LTE/3G connectivity.
2	**LAN Ports (2 - 4)**	Connect to Ethernet devices such as computers, switches, storage (NAS) devices, and game consoles.
3	**WAN Port/LAN Port 1**	This port can be used as a WAN or LAN port. If used as a WAN port, connect your broadband modem to this port with an Ethernet cable. You can configure the method of WAN connection using the Setup Wizard or accessing **Network > WAN Setting**. To configure it as a LAN port, set the operation mode to Bridge (got to **Setup > Operation Mode**).
4	**WPS/Reset**	Press this button for about 3 seconds to initiate a new WPS connection. Press and hold this button for about 10 seconds to reset the device.
5	**Power Connector**	Connector for the supplied power adapter.
6	**Power Button**	Switch the device on or off.

Installation

This section will walk you through the installation of your G416C.

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 provides 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, 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.

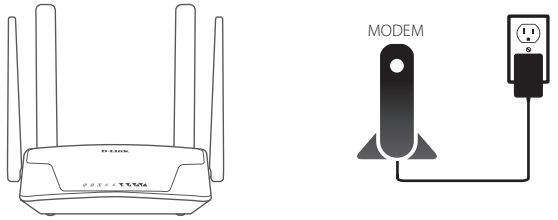
Setup

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

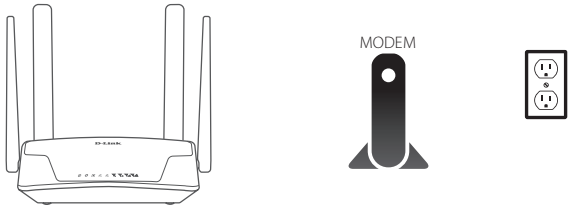
- **Hardware Setup** - This section explains how to set up your G416C. Refer to **Hardware Setup** on page **10.**
- **Setup Wizard** - This wizard will launch when you log in to the router using your browser for the first time. Refer to **Setup Wizard** on page **13**.
- **Manual Setup** - Log in to the router to manually configure your router. Refer to **Configuration** on page **21**

Hardware Setup

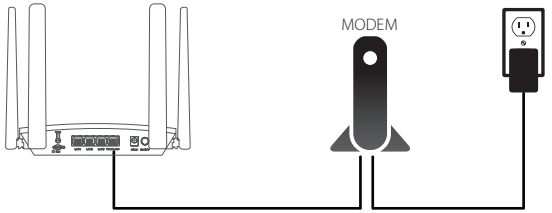
Step 1
Position your G416C near your Internet-connected modem. Place it in an open area for better wireless coverage.



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.

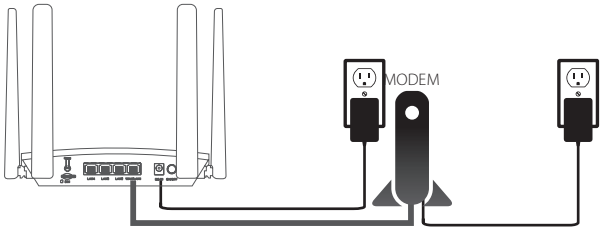


Step 3
Use the Ethernet cable to connect your modem to the port labelled **WAN** on the router.



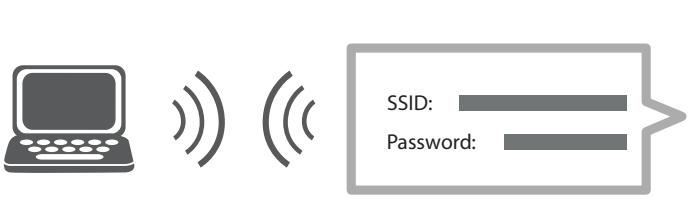
Step 4
Plug in the power and turn your modem back on and wait approximately one minute before proceeding with the procedure.

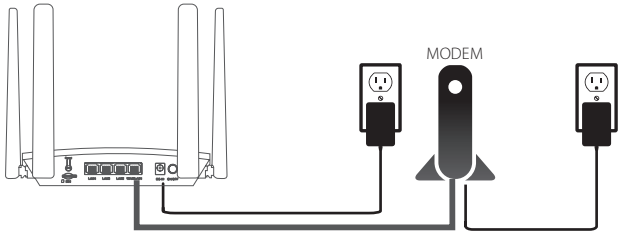
Step 5
Connect the supplied power adapter to the router and a power outlet, and wait until the Power and Wireless LED indicator on the front of the device changes to solid green.



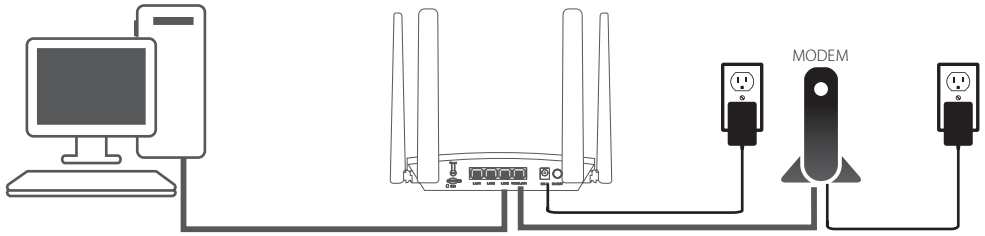
Step 6
If you are configuring the router wirelessly from a PC, connect to the Wi-Fi network name printed on the label attached to the bottom of your router.

Note: The Wi-Fi name (SSID), Wi-Fi password, and device password are printed on the device label on the bottom of the device.





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

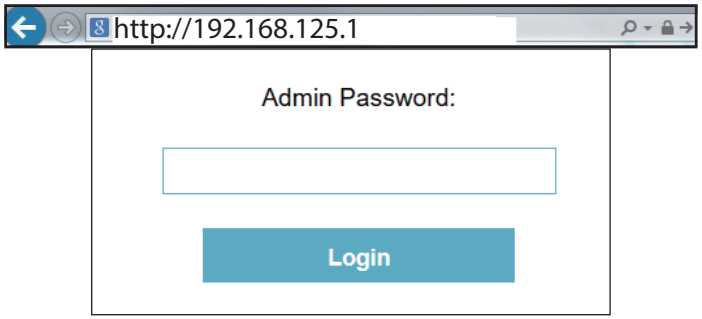


Step 7
If you are connecting to a broadband service that uses a dynamic connection (not PPPoE), you may be online already. Try opening a web browser and connecting to a website. If the website does not load, proceed to **Setup Wizard** on page **13**.

Setup Wizard

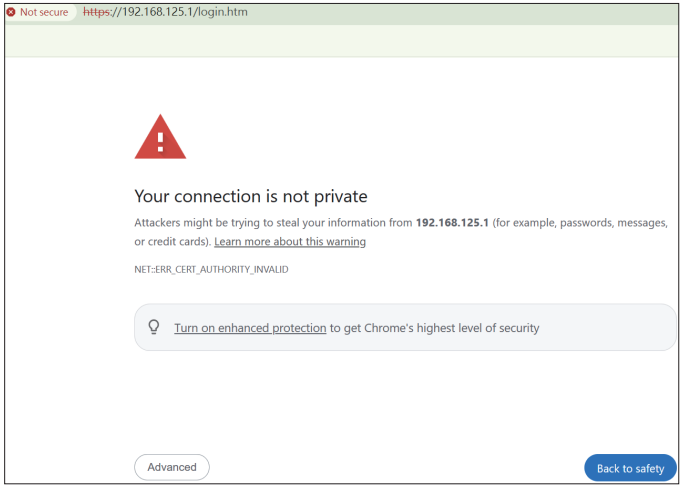
The setup wizard is designed to guide you through a step-by-step process of configuring your new G416C for Internet connection.

If this is your first time installing the router, open your web browser and enter **http://192.168.125.1/**. Enter the Admin Password and click *Login* to start the configuration process. The web address and the Admin password are printed on the device label on the bottom of the device.

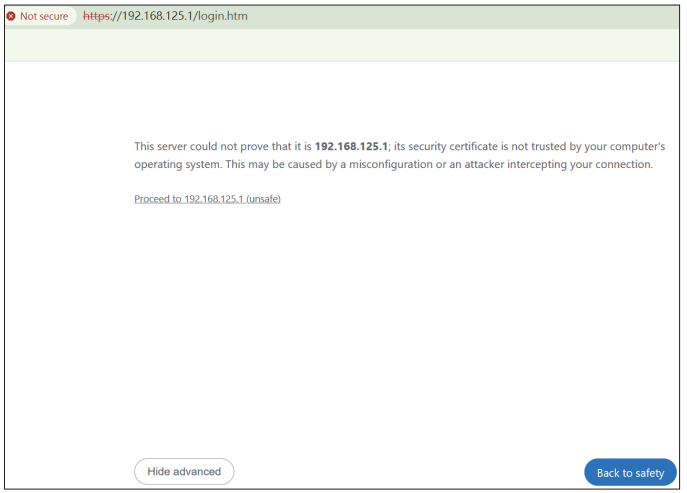


When your browser displays a security warning stating, "Your connection isn't private." You will also see Not Secure in the address bar, along with HTTPS crossed out with red lines. This is because the device's default management URL is not an actual Internet website with valid certificates. You can proceed with the setup by following these steps:

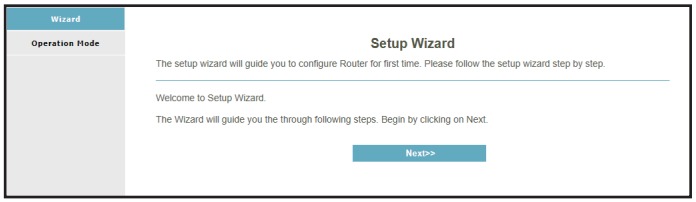
1. Click the "Advanced" button.



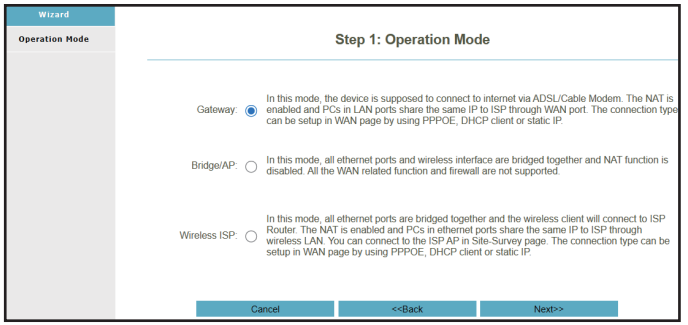
2. Click "Proceed to the 192.168.125.1 (unsafe)."
Now you will be able to log in to your device.



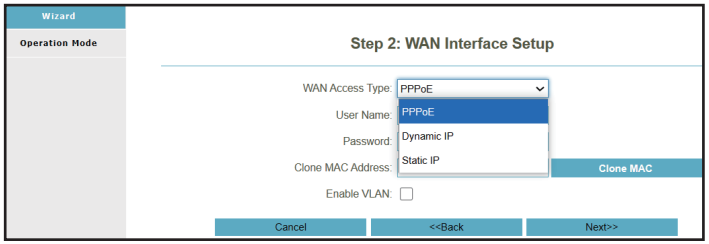
Follow the on-screen instructions to configure your new D-Link router and connect to the Internet. Click **Next** to continue.



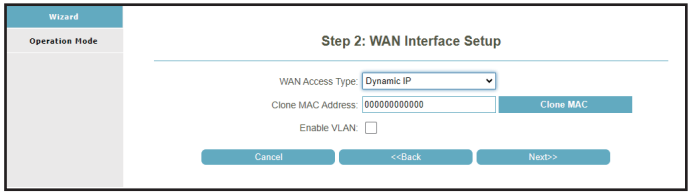
You can decide whether to use gateway or WISP mode according the network environment. If you choose Gateway mode, you need to set specific connection method, such as PPPoE, DHCP or static IP; if you choose Wireless ISP mode, you can connect to an AP with Internet connection on the Site Survey page under the Wireless menu. If you choose Bridge Mode, all LAN ports and WLAN interfaces will be bridged together and the WAN settings will be disabled. Note that under the bridge mode, NAT and firewall functions will also be disabled.



WAN Interface Setup: select one of the 3 methods for WAN connection: PPPoE, Dynamic IP, and Static IP.

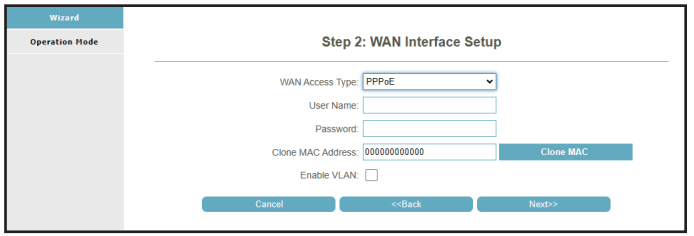


If the router does not detect a valid Internet connection, please select your Internet connection type (this information can be obtained from your Internet Service Provider). For Dynamic IP, you can configure whether MAC Clone and VLAN setting will be used. For MAC address clone, the system will select one of the connected client's MAC address as the MAC address for the WAN interface. If you enable VLAN setting, enter a VLAN ID (usually provided by your ISP).



Click **Next** to continue.

If you select **PPPoE**, enter your PPPoE username and password. If you do not have this information, please contact your ISP. For MAC address clone, select one of the connected client's MAC address as the MAC address for the WAN interface. If you enable VLAN setting, enter a VLAN ID.

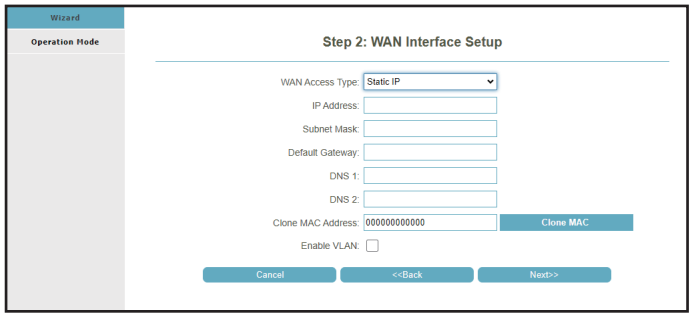


Click **Next** to continue.

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

If you select **Static IP**, enter the IP Address, Default Gateway, and DNS settings supplied by your ISP. For MAC address clone, select one of the connected client's MAC address as the MAC address for the WAN interface. If you enable VLAN setting, enter a VLAN ID.

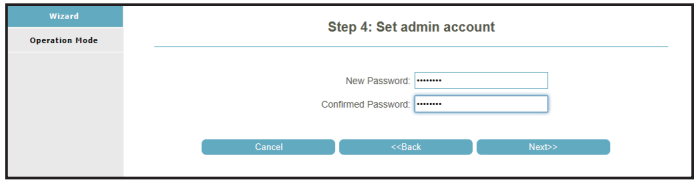
Click **Next** to continue.



LAN Interface Setup: enter the IP Address and Subnet Mask for your LAN interface.

Click **Next** to continue.

In order to secure the router's configuration page, please enter a password. You will be prompted for this password every time you log in to the router's web configuration utility. The admin password must be 10–15 characters long, must not contain identical adjacent characters, and must meet at least three of the following criteria:

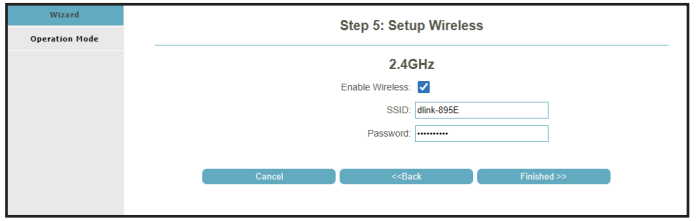


- An uppercase letter
- A lowercase letter
- A number
- A special character (@ # $ ^ & *).

Note: It is strongly recommended that you change the default device password.

Click **Next** to continue.

If you opt to enable wireless network, type in a **Wi-Fi SSID** and **Wi-Fi Password** to set up your Wi-Fi network. The Wi-Fi password must contain at least 10 characters without consecutive identical letters and must meet at least three of the following criteria:

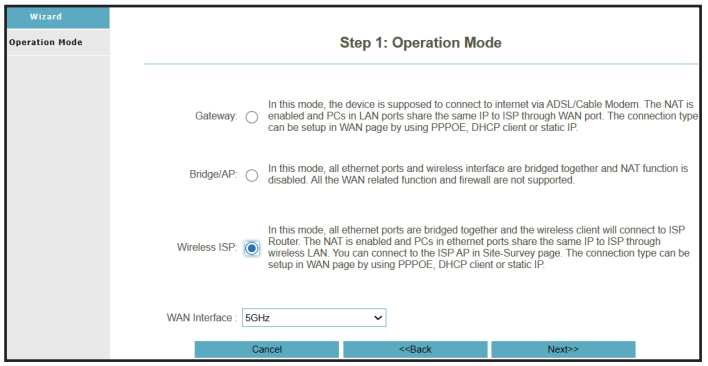


- An uppercase letter
- A lowercase letter
- A number
- A special character (@ # $ ^ & *).

If you chose the Gateway mode at Step 1, click **Finished** to save the configuration of the router and exit the wizard.

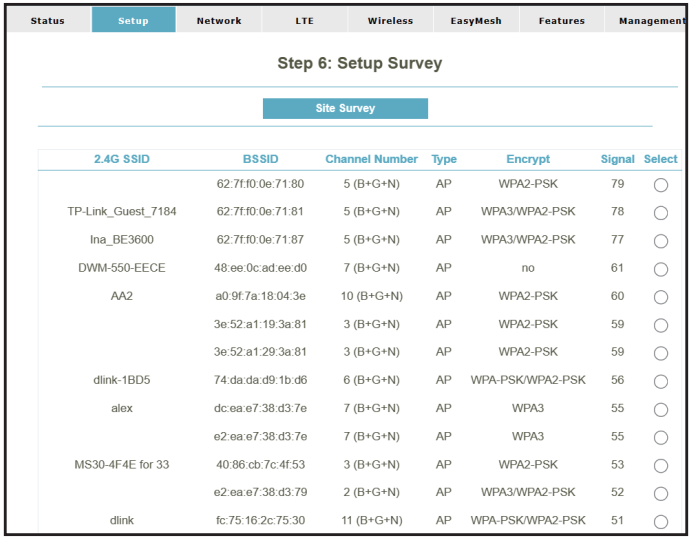
If you chose the Wireless ISP mode at Step 1, choose the Wi-Fi interface to be designated for WISP.

Click **Next** to continue.



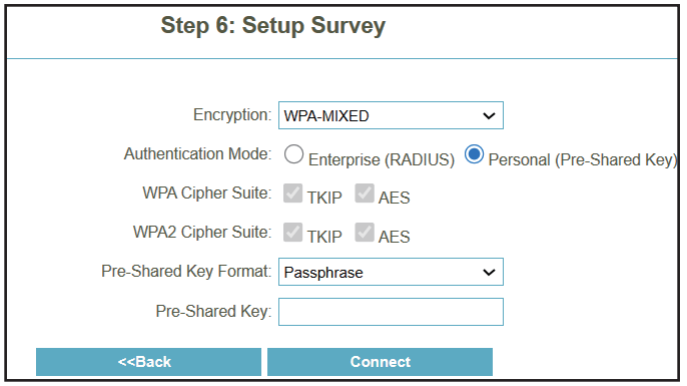
If you chose the Wireless ISP mode at Step 1, you will be presented with the Site Survey page to connect to an AP offering Internet service.

Click **Next** to continue.

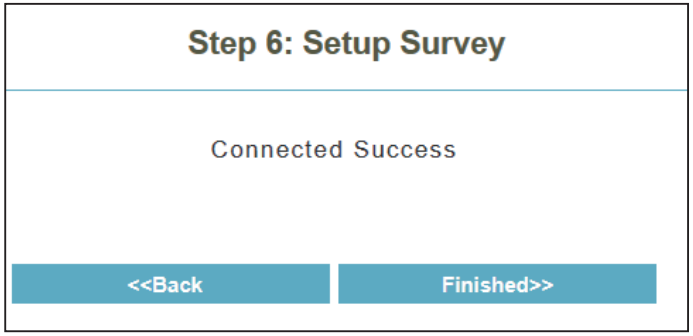


2.4G SSID	BSSID	Channel Number	Type	Encrypt	Signal	Select
	62:7f:f0:0e:71:80	5 (B+G+N)	AP	WPA2-PSK	79	
TP-Link_Guest_7184	62:7f:f0:0e:71:81	5 (B+G+N)	AP	WPA3/WPA2-PSK	78	
Ina_BE3600	62:7f:f0:0e:71:87	5 (B+G+N)	AP	WPA3/WPA2-PSK	77	
DWM-550-EECE	48:ee:0c:ad:ee:d0	7 (B+G+N)	AP	no	61	
AA2	a0:9f:7a:18:04:3e	10 (B+G+N)	AP	WPA2-PSK	60	
	3e:52:a1:19:3a:81	3 (B+G+N)	AP	WPA2-PSK	59	
	3e:52:a1:29:3a:81	3 (B+G+N)	AP	WPA2-PSK	59	
dlink-1BD5	74:da:da:d9:1b:d6	6 (B+G+N)	AP	WPA-PSK/WPA2-PSK	56	
alex	dc:ea:e7:38:d3:7e	7 (B+G+N)	AP	WPA3	55	
	e2:ea:e7:38:d3:7e	7 (B+G+N)	AP	WPA3	55	
MS30-4F4E for 33	40:86:cb:7c:4f:53	3 (B+G+N)	AP	WPA2-PSK	53	
	e2:ea:e7:38:d3:79	2 (B+G+N)	AP	WPA3/WPA2-PSK	52	
dlink	fc:75:16:2c:75:30	11 (B+G+N)	AP	WPA-PSK/WPA2-PSK	51	

Configure the Encryption and authentication methods to connect to the selected AP. Then enter the required password and click **Connect**.



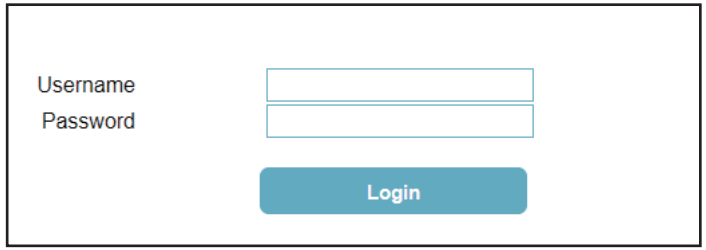
Click **Finished** to save the configuration of the router and exit the wizard.



Configuration

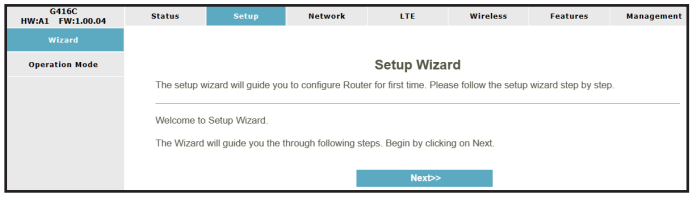
If this is your first time installing the router, open your web browser and enter the default management address at **http://192.168.125.1/**

The Wi-Fi SSID, Wi-Fi Password, and the admin password are printed on the device label on the bottom of the device.



Note: *If you cannot remember your password for login, press the **Reset** button on the back of the device to restore the router to its default settings. However, all of the current configuration will be erased.*

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



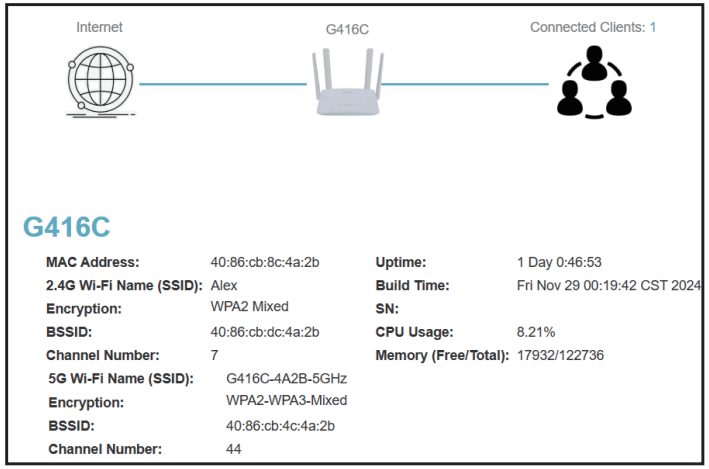
The top pane has quick access to **Status**, **Setup**, **Network**, **LTE**, **Wireless**, **Features,** and **Management** menu. You can access functions to manage and configure your router through these menus.

Note: *The system will automatically log out after a period (300 seconds) of inactivity.*

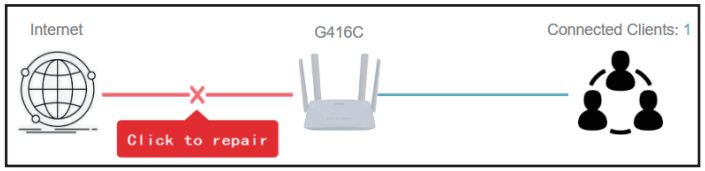
Status

The Status page displays the status of the router in the form of an interactive diagram. You can click each icon to display information about the components of the network at the bottom of the screen. The left pane allows you to quickly navigate to functions.

The Status page displays whether the router is currently connected to the Internet.



If it is disconnected, click **Click to repair** to bring up the setup wizard, refer to the **Setup Wizard** on page **13** for more information.

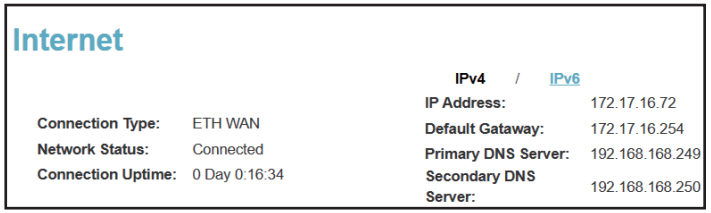


Internet

To bring up more details about your Internet connection, click the **Internet** icon.

Click **IPv4** or **IPv6** to see details of the IPv4 connection and IPv6 connection respectively.

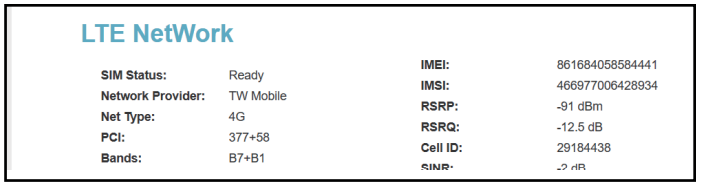
To reconfigure the Internet settings, refer to **WAN Setting** on page **34** and **LTE** on page **47.**



Connection Type	Indicates the Internet connection method: Ethernet WAN or LTE.
Network Status	Indicates whether the Internet is connected or disconnected.
Connection Uptime	Displays how long the router has been up and running.
IP Address	Displays the current IP address of the router.
Default Gateway	Displays the default gateway's IP address.
Primary DNS Server	Displays the IP address of the primary DNS server.
Secondary DNS Server	Displays the IP address of the secondary DNS server.

LTE Network

The LTE network provides the following information about your cellular connection.



SIM Status Indicates whether a SIM card is connected.

Network Provider Displays the provider's name of the Internet service.

Net Type Displays the technology used for the network.

PCI Displays the Physical Cell Identity (PCI), which is a cell identification number.

Bands Display the LTE frequency Band.

IMEI The International Mobile Equipment Identity is a unique number assigned to every mobile device.

IMSI The SIM/USIM/UICC card has a unique number called an International Mobile Subscriber Identity (IMSI). This is used to identify and authenticate users on cellular devices.

RSRP Reference Signal Received Power (RSRP), which measures the power level of the signal for the LTE network.

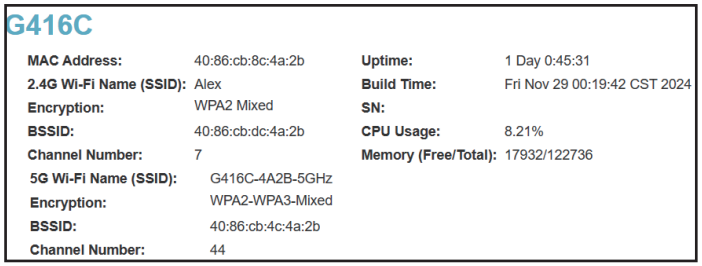
RSRQ Reference Signal Received Quality (RSRQ), which measures the signal level and quality for the LTE network.

Cell_ID Indicates the cell tower or site.

SINR Signal-to-interference-plus-noise ratio, which measures the quality of wireless signal by taking account of noise and other interfering factors.

G416C

Click on the **G416C** icon to view details about the router and its wireless settings.



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

To reconfigure network settings, click **Network** menu. Refer to **Network** on page **32** for more information.

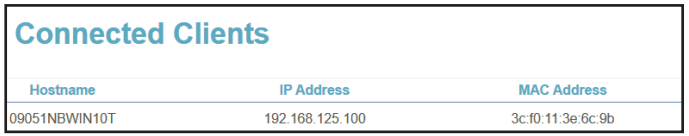
To reconfigure wireless settings, click the **Wireless** menu. Refer to **Wireless** on page **59** for more information.

Edit Rule	
MAC Address	Displays the MAC address of the router.
Wi-Fi Name (SSID)	Displays the name of the wireless network.
Encryption	Displays the wireless security method.
BSSID	Displays the BSSID of the wireless network (i.e. the MAC address of the wireless network).
Channel Number	The wireless channel used for the wireless network.
Uptime	Displays how long the device has been up and running.
Build Time	Displays the timestamp of the device's firmware.
SN	The serial number of the device.
CPU Usage	The percentage of CPU utilization.
Memory (Free/Total)	The free memory out of the total capacity.

Connected Clients

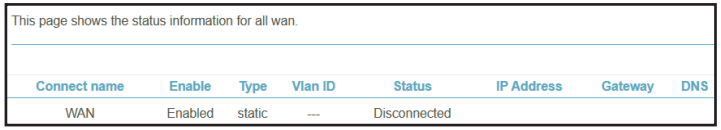
Click on the **Connected Clients** icon to obtain information about the connected clients of the router.

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



Status - WAN Status

Go to **Status > WAN Status** to open the WAN Status page. This page displays the WAN connection status .



Connect Name The WAN connection type.

Enable Displays whether the WAN is enabled or disabled.

Type Displays the IP addressing method of the WAN interface.

VLAN ID Displays the VLAN assignment of the WAN interface.

Status Displays whether the WAN connection type is connected or disconnected.

IP Address Displays the current IP address of the WAN interface.

Gateway Displays the gateway's IP address.

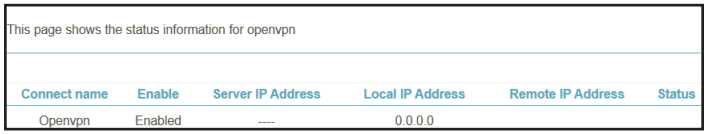
DNS Displays the IP address of the DNS server.

Click **Save** when you are done.

Status - OpenVPN Status

Go to **Status > VPN Status** to open the OpenVPN Status page. This page displays the OpenVPN connection status .

To connect to another network via OpenVPN, go to **Network > OpenVPN**.

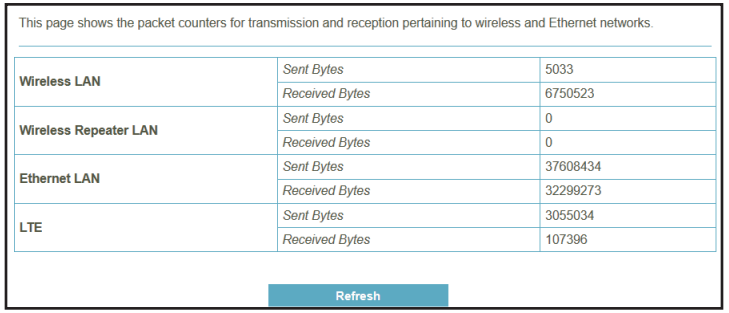


Connect Name	The OpenVPN connection.
Enable	Displays whether the OpenVPN is enabled or disabled. To enable it, go to **Network > OpenVPN** to configure connection settings.
Server IP Address	Displays the IP address of the OpenVPN server.
Local IP Address	Displays the IP address of the local end of the VPN connection
Remote IP Address	Displays the IP address of the remote end of the VPN connection.
Status	Displays whether the OpenVPN connection is connected or disconnected.

Status - Statistics

Go to **Status > Statistics** to open the Statistics page.

This page shows the data traffic statistics for the router.



Wireless LAN The total amount of data that is sent and received through the wireless LAN network in bytes.

Ethernet LAN The total amount of data that is sent and received through the wired LAN network in bytes.

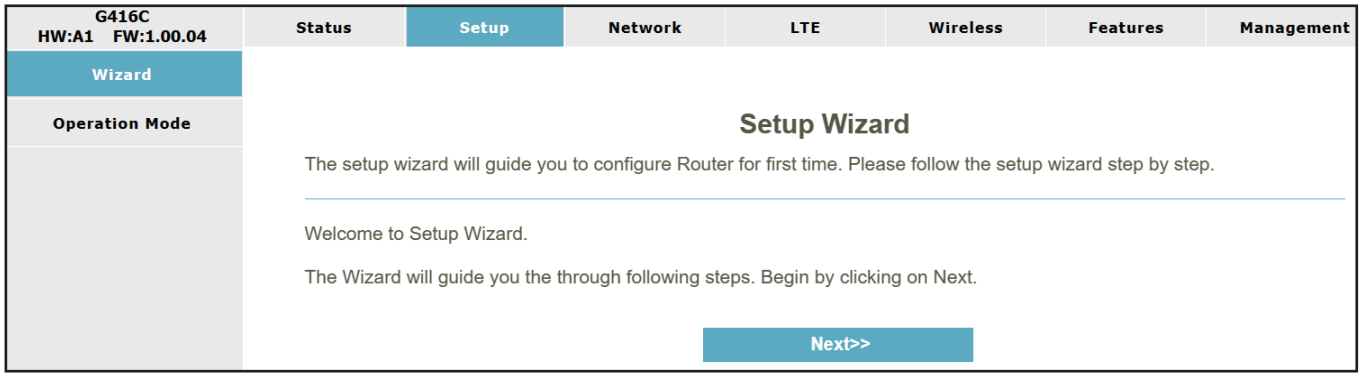
WAN The total amount of data that is sent and received through the Ethernet WAN in bytes.

LTE The total amount of data that is sent and received through the LTE network.

Setup
Wizard

Go to **Setup > 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 **13** for details.

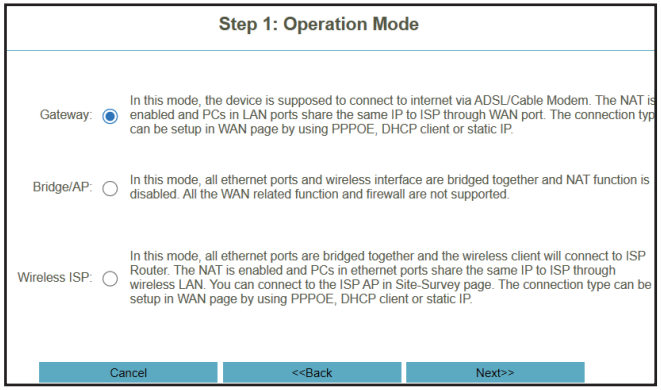
Note: *After the setup wizard completes, the router will temporarily disconnect from the Internet and then reconnect automatically.*



Setup
Operation Mode

Go to **Setup > Operation Mode** to open the mode setting page.

Gateway	In this mode, the router obtain Internet service through ADSL subscription or cable modem. All LAN clients can share this service without exposing themselves to the public via NAT.
Bridge	In this mode, Ethernet and wireless interfaces are bridged together. DHCP service and firewall functions (e.g. port filtering and port forwarding) will be disabled.
Wireless ISP	In this mode, the router obtain Internet service by connecting to an access point connected to the Internet. All LAN clients can share this service with NAT. Site survey to an access point can be accessed by going to **Wireless > Site Survey** (You also need to configure the router's wireless mode to be **Client** to uplink to an AP wirelessly.)

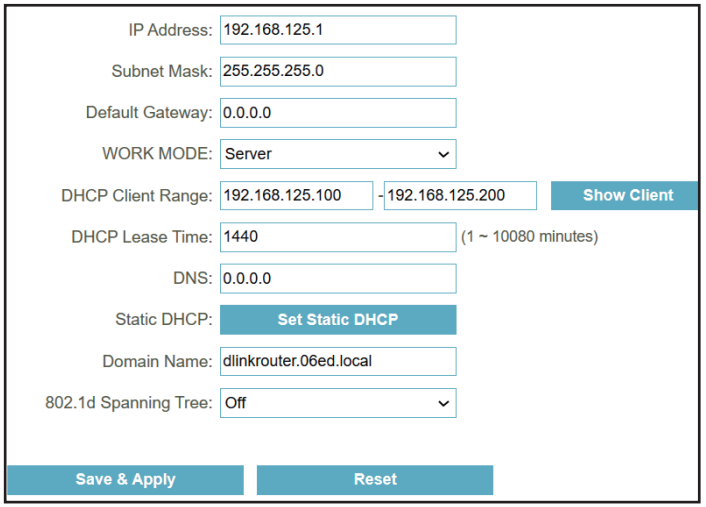


Network
LAN Setting

Go to **Network > LAN Setting** to open the LAN Setting page.

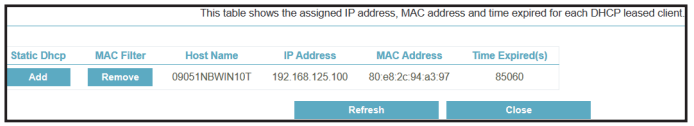
It allows you to configure the local network settings of the router and the related DHCP settings.

LAN Settings	
LAN IP Address	Enter the IP address of the router. The default IP address is **192.168.125.1**. If you change the IP address, you will need to enter the new IP address in your browser to log in to the web configuration.
Subnet Mask	Enter the subnet mask of the router. The default subnet mask is **255.255.255.0.**
Default Gateway	Enter the default gateway of the DHCP assignment.
Work Mode	You can designate the router as a DHCP server to assign IP addresses to connected clients. You can also designate this router as a DHCP client to obtain IP address from a DHCP server. Turn off the mode setting to disable LAN IP assignment.
DHCP Client Range	Enter the start and end IP addresses for the DHCP server's IP assignment. **Note**: *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.*
DHCP Lease Time	Enter the length of time for the IP address lease in minutes. The default is 10080 minutes.
DNS	Enter the DNS IP address of the DHCP assignment.
Domain Name	Enter the domain name of the DHCP assignment.



802.1d Spanning Tree Enable or disable the 802.1d Spanning Tree Protocol (STP) to eliminate loops in the network. Enable this if you have connected multiple routers in bridging mode.

Click **Save&Apply** after making changes on this page.



Show Client

Static DHCP Add this DHCP client entry to the static assignment of DHCP IP addresses. The assignment should be displayed in the following Static DHCP List.

MAC Filter Click **Add** to add this client entry to the MAC filtering table. Click Remove to remove it from the MAC filtering table (go to **Features > MAC Filtering** to obtain the MAC Filter Table).

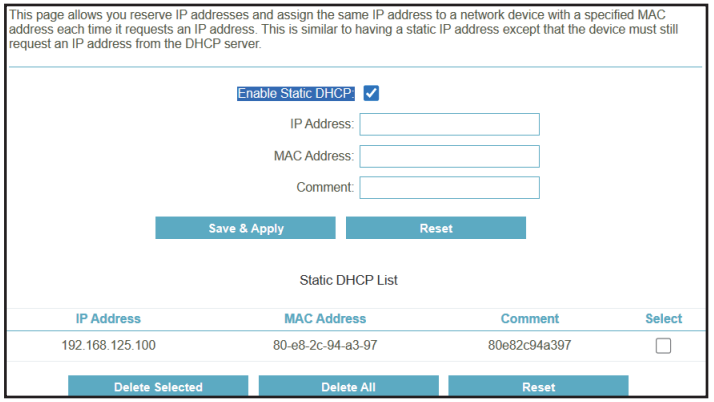
Host Name The client's host name.

IP Address The IP address assigned to the client.

MAC Address The MAC address of the DHCP client.

Time Expired The time until the lease expires in seconds.

Click **Refresh** to refresh the DHCP assignment table or click **Close** to close the screen.



Set Static DHCP

Enable Static DHCP Enable or disable the static assignment of DHCP IP addresses.

IP Address Enter an IP address to assign to the client with the specified MAC address below.

MAC Address Enter the MAC address of the DHCP client.

Comment Enter a brief note.

Click **Save&Apply** to save the DHCP assignment entry or click Reset to discard the entry. You can also select a specific entry of the Static DHCP List to delete it or click **Delete All** to erase all records.

WAN Setting

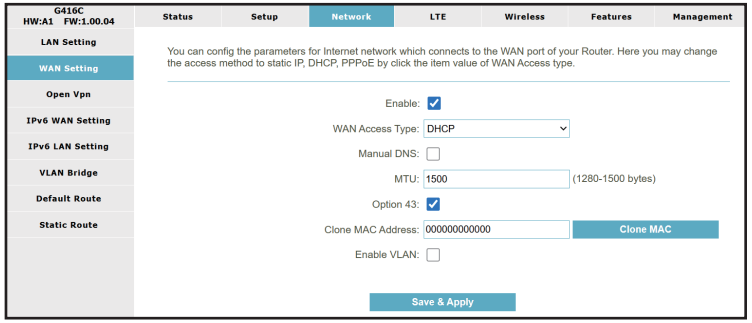
Go to **Network > WAN Setting** to see the Internet configuration options for IPv4 connection.

To configure the IPv6 Internet and network connection details, click the **IPv6 WAN Setting** tab. Refer to **IPv6 WAN Setting** on page **39.**

For **Dynamic IP (DHCP)** refer to page **35**

For **Static IP** refer to page **36**

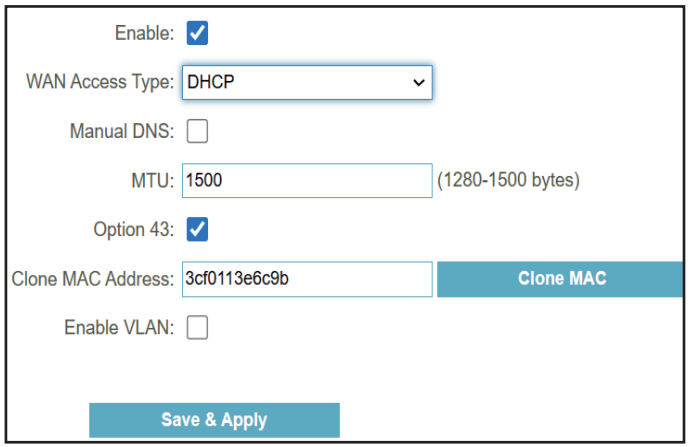
For **PPPoE** refer to page **37**



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.

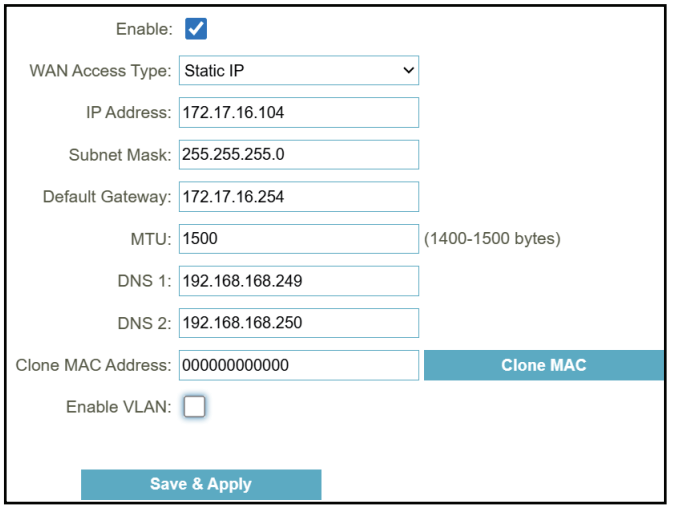
DHCP Setting	
WAN Access Type	Configure the following if you select DHCP.
Manual DNS	Enter the DNS server IP address assigned by your ISP manually in DNS1/2 below.
DNS1/DNS2	Enter the DNS server address manually.
MTU	Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP. The default is 1500.
Option 43	Enable option 43 for sending Vendor-specific configuration through DHCP requests.
MAC Address Clone	The default MAC address is set to the WAN port's physical interface MAC address on the router. You can replace the WAN port's MAC address with the MAC address of a connected client.
Enable VLAN	Enable VLAN assignment on the WAN.
VLAN ID	Enter the VLAN ID.



Click **Save&Apply** after you have made changes on this page.

Static IP

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



IP Address Enter the IP address provided by your ISP.

Subnet Mask Enter the subnet mask provided by your ISP.

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

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

DNS1/DNS2 Enter the DNS server addresses.

Clone MAC Address The default MAC address is set to the WAN port's physical interface MAC address on the router. You can replace the WAN port's MAC address with the MAC address of a connected client.

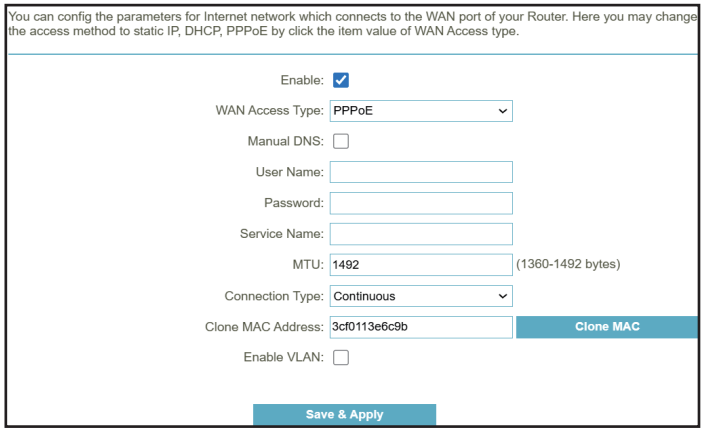
Enable VLAN Enable VLAN assignment on the WAN

VLAN ID Enter the VLAN ID.

Click **Save&Apply** after you have made changes on this page.

PPPoE

Select **PPPoE** (Point-to-Point Protocol over Ethernet) if your ISP requires you to enter a PPPoE username and password in order to connect to the Internet.



Username Enter the username provided by your ISP.

Password Enter the password provided by your ISP.

Service Name Enter the ISP service name (optional)

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

Manual DNS Enable this to enter DNS address manually and enter the DNS server IP address assigned by your ISP manually in DNS1/2 below.

DNS1/DNS2 Enter the DNS server address manually.

Reconnect Type Select either **Continuous**, **Connect On Demand**, or **Manual**.

Idle Time Enter the number of minutes (1-1000) that must elapse before an idle connection can be terminated.

Manual DNS Enable this to enter DNS address manually.

Clone MAC Address The default MAC address is set to the WAN port's physical interface MAC address on the router. You can replace the WAN port's MAC address with the MAC address of a connected client.

Enable VLAN Enable VLAN assignment on the WAN

VLAN ID Enter the VLAN ID.

Click **Save&Apply** after you have made changes on this page.

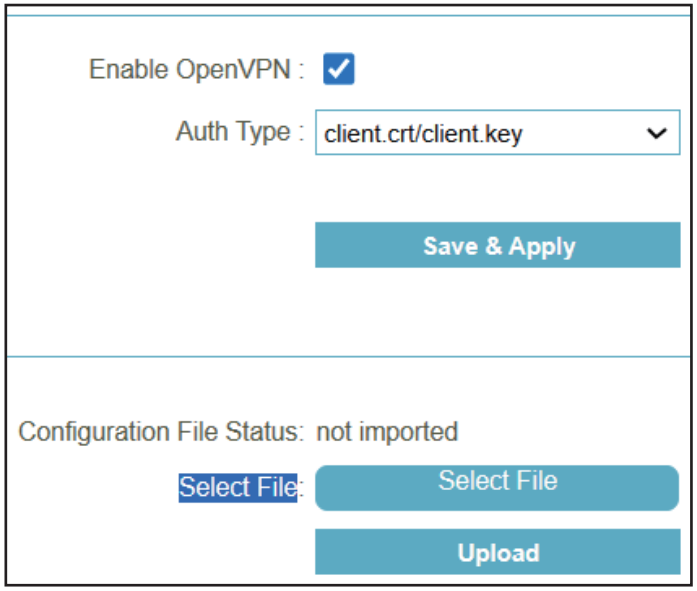
OpenVPN

You can connect to another network remotely and securely via OpenVPN.

Go to **Network > Open VPN** to configure OpenVPN client settings.

To begin, select **Enable OpenVPN**.

OpenVPN Settings	
Auth Type	Select the authentication method: username/password or client certificate or key.
Username	If you chose username/password as the authentication method, enter the username for VPN connection authentication.
Password	If you chose username/password as the authentication method, enter the password for VPN connection authentication.
Select File	Browse for the OpenVPN connection profile file (.ovpn) in your local directory.
Upload	Upload the connection profile to start establishing a connection.



IPv6 WAN Setting

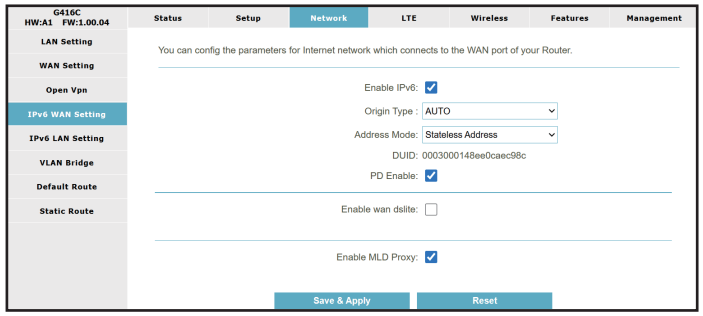
Go to **Network > IPv6 WAN Setting** to see the Internet configuration options for IPv6.

To configure the IPv4 Internet and network connection details, click the **WAN Setting** tab. Refer to **WAN Setting** on page **34.**

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

For **IPv6 - Static** on page **41**

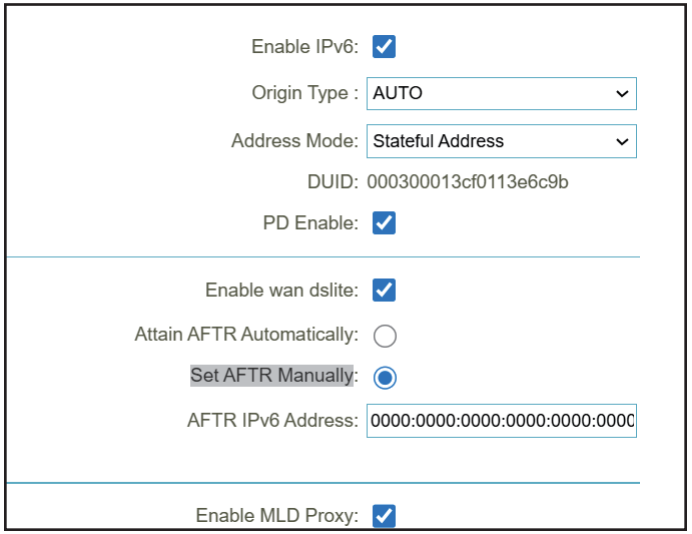
For **IPv6 - 6rd** refer to page **42**



IPv6 - Auto

Select **Auto** 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.

IPv6 Settings	
Address Mode	Select either **Stateful Address** or **Stateless address** through DHCPv6.
PD Enable	If you select **Use the following DNS address**, enter the primary DNS server address. Enable or disable DHCP prefix delegation (PD).
WAN DSlite Setting	
Enable WAN DSlite	Enable or disable WAN IPv6 Dual-Stack Lite (DS-Lite), which enables IPv4 packets to be transmitted over an IPv6 network.
Attain AFTR Automatically	If WAN DS-Lite is enabled, select either **Attain Address Family Transition Router (AFTRs)** automatically or enter it manually. The AFTR performs address translation for IPv4-to-IPv6 transition
Set AFTR Manually	If you choose manual AFTR setting, enter its IPv6 address below.
AFTR IPv6 Address	Enter a valid IPv6 address.
Enable MLD Proxy	Enable the router to operate as the Multicast Listener Discovery (MLD) proxy for IPv6 multicast routing.



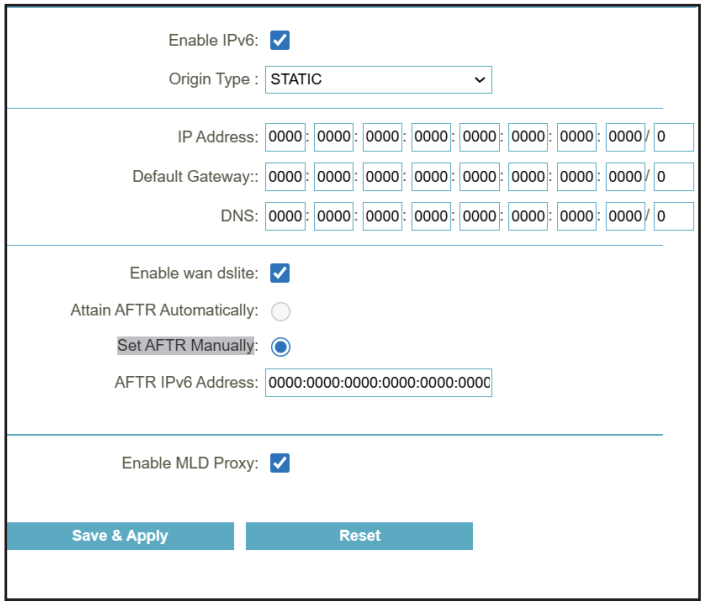
Click **Save&Apply** after you have made changes on this page.

IPv6 - Static

Select **Static** if your ISP assigns an IPv6 address manually. Some ISPs require you to configure relevant settings in advance before your router can connect to the IPv6 Internet.

IPv6 Settings	
IP Address	Enter the IPv6 address with the prefix (0-128) after /. Each field should contain a hex value from 0000 to ffff.
Default Gateway	Enter the default gateway's address.
DNS	Enter the DSN server address provided by your ISP.

WAN DSlite Setting	
Enable WAN DSlite	Enable or disable WAN IPv6 Dual-Stack Lite (DS-Lite), which enables IPv4 packets to be transmitted over an IPv6 network.
Attain AFTR Automatically	If WAN DS-Lite is enabled, select either **Attain Address Family Transition Router (AFTRs)** automatically or enter it manually. The AFTR performs address translation for IPv4-to-IPv6 transition
Set AFTR Manually	If you choose manual AFTR setting, enter its IPv6 address below.
AFTR IPv6 Address	Enter a valid IPv6 address.
Enable MLD Proxy	Enable the router to operate as Multicast Listener Discovery (MLD) proxy for IPv6 multicast routing protocols.



Click **Save&Apply** after you have made changes on this page.

IPv6 - 6rd

IPv6 **6rd** (rapid deployment) allows IPv6 packets to be transmitted over an IPv4 network.

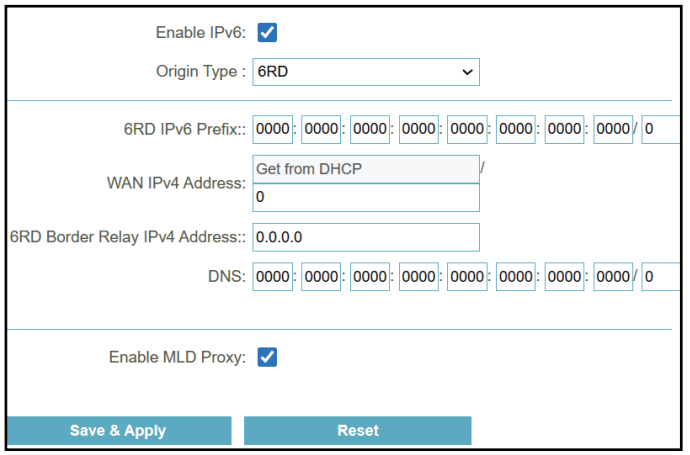
6rd IPv6 Prefix Enter the 6rd IPv6 network address and prefix length (1-128) supplied by your ISP.

WAN IPv4 Address Enter the IPv4 network mask length (0-32).

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

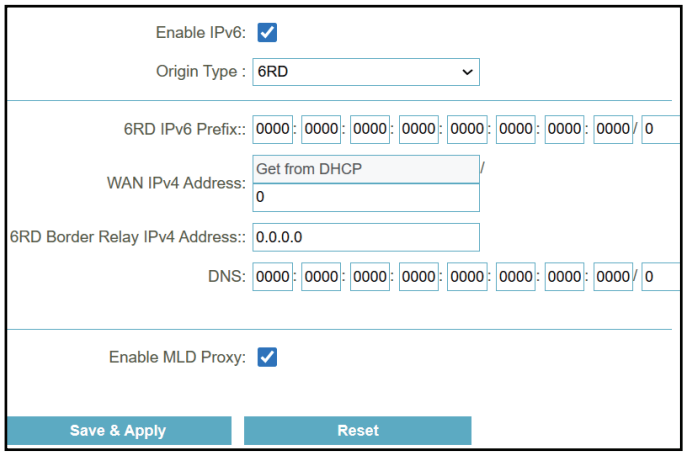
DNS Enter the DSN server address in IPv6 provided by your ISP.

Enable MLD Proxy Enable the router to operate as the Multicast Listener Discovery (MLD) proxy for IPv6 multicast routing.



IPv6 - LAN Setting

IPv6 LAN Setting allows IPv6 settings for the LAN network.



IP Address Enter the LAN IPv6 address with prefix length (1-128). Each field must contain a hex value from 0000 to ffff.

DHCPv6 Server Enable Enable this to let LAN clients to obtain an IPv6 address automatically.

DNS Address Enter the DNS server address for DHCP assignment.

Address Mode Select either Stateful or Stateless Addressing method.

Start Interface ID Enter start ID for stateful IP addressing.

End Interface ID Enter end ID for stateful IP addressing.

RADVD Enable Router Advertisement Daemon (RADVD) to assign prefix type and valid lifetime.

RADVD IPv6 Prefix Select either Prefix Delegation or Manual Prefix assignment.

AdvValid Lifetime Enter the prefix's valid lifetime.

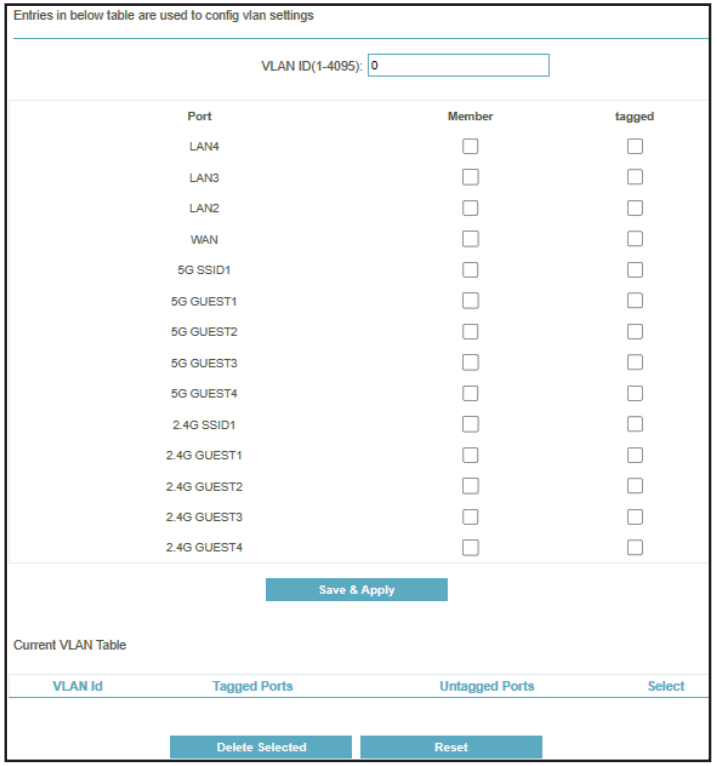
AdvPreferredLifetime Enter the prefix's preferred lifetime. It must be less than or equal to the address's valid lifetime.

Prefix Enter the prefix for manual assignment if manual prefix is selected.

Enable MLD Proxy Enable the router to operate as Multicast Listener Discovery (MLD) proxy for IPv6.

VLAN Bridge

Go to **Network > VLAN Bridge** to assign VLANs on the designated LAN or WLAN interfaces to separate data traffic for different service types through the WAN port .



Note: You need to configure the designated WAN Access Type with a valid VLAN ID first. Go to **Network > WAN Setting** to access the WAN configuration.

VLAN ID Assign a VLAN ID for this service type.

LAN/WLAN Select the WAN and Ethernet LAN(2-4) ports or Wireless LAN interfaces (SSID1, GUEST1, GUEST 2, GUEST 3, or GUEST 4) for this service group by assigning its VLAN membership type: tagged or untagged.

Current VLAN Table

VLAN ID Displays the assigned VLAN.

Tagged/Untagged Port The tagged port and the untagged port will be displayed

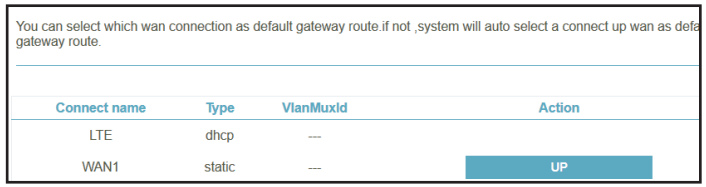
Select a VLAN configuration on the table and click **Delete** to delete it.

Click **Save&Apply** after you have made changes on this page.

Default Route

Go to **Network > Default Route** to assign one of the WAN connection as the default route for WAN traffic.

Default Route Table	
Connect name	The name of the WAN connection.
Type	The IP assignment method of the WAN interface.
VLANMuxID	The assigned VLAN ID for this WAN interface.



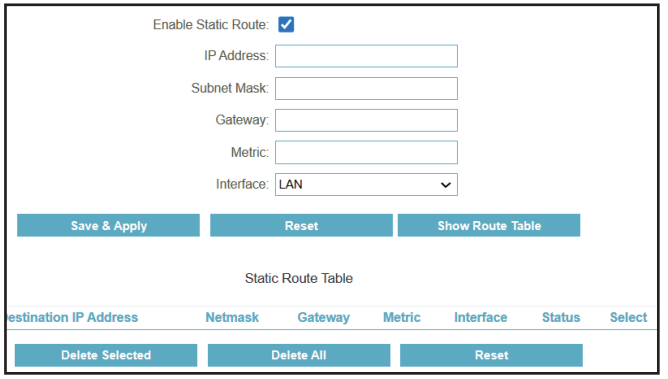
Click **Up** to select the connection as the default gateway route.

Static Route

Go to **Network > Static Route** to manually assign paths for packets passing through a specified interface.

To begin, select **Enable Static Route** to allow static route configuration.

Static Route	
IP Address/Subnet Mask	Enter the destination IP address and subnet mask for the route.
Gateway	Enter the gateway, which is the next hop of the route.
Metric	Enter the costs of the route.
Interface	Select the Interface to use for this static route.



You can select a configured static route from the Static Route Table to delete it or click **Delete All** to delete all records of the table.

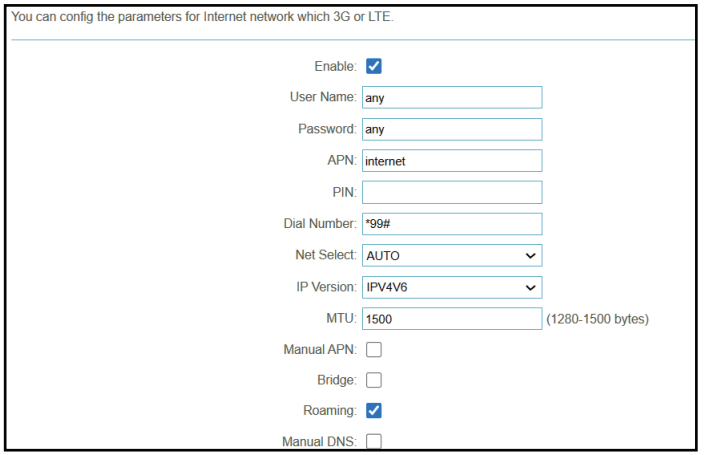
Click **Save&Apply** after you have made changes on this page.

LTE

Basic Settings

Go to **LTE > Basic Settings** to configure the cellular connection parameters.

To begin, select **Enable** to display configuration settings.



User Name The network subscriber's account.

Password The password of the account.

APN Access Point Name (APN), which sets up a network connection to enable Internet access through cellular communication.

PIN Enter the PIN of your SIM card.

Dial Number The dial number to this network

Net Select Select the cellular network technology.

Auth Method Select the authentication method: None, PAP, CHAP, or both.

IP Version Select the IP addressing mechanism.

MTU Enter the Maximum Transmission Unit (MTU) size.

Manual APN Enter the Access Point Name manually above

Bridge Enable bridge mode

Roaming Enable roaming

Manual DNS Enable this and enter the DNS server address manually below.

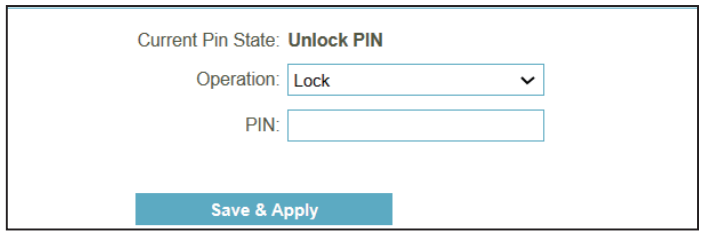
Click **Save&Apply** after you have made changes on this page.

PIN Manage

Go to **LTE > PIN Manage** to configure PIN code to lock and unlock your SIM card. When PIN protection is enabled, you'll have to input your PIN whenever your SIM card is reinstalled.

Operation Select Lock or Unlock your SIM. Then enter the PIN code below.

PIN Enter the PIN.



Click **Save&Apply** after you have made changes on this page.

SMS Send

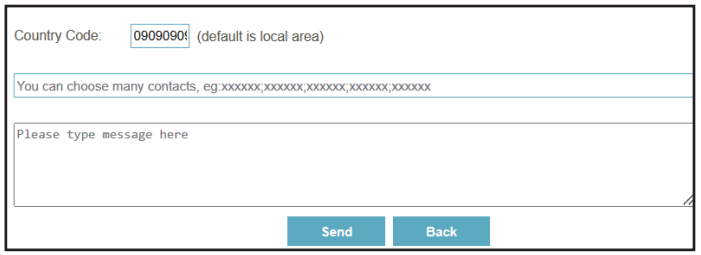
Go to **LTE > SMS Send** to send SMS messages.

Country Code Enter the country code of the recipient's phone number.

Contact Enter the recipient's phone number.

Message Enter your message.

Click **Send** to send the message or **Back** to cancel it.



SMS Inbox

Go to **LTE > SMS Inbox** to access the messages stored in the Inbox.

Phone Number The phone number of the sender.

Content The content of the message.

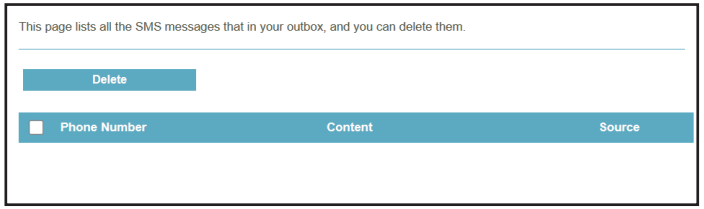
Time The timestamp of the message.

Source Indicate where the message is stored.

Select a message and click **Delete** to delete the message.

SMS Outbox

Go to **LTE > SMS Outbox** to access the messages stored in the outbox.



Number The phone number of the receiver.

Content The content of the message.

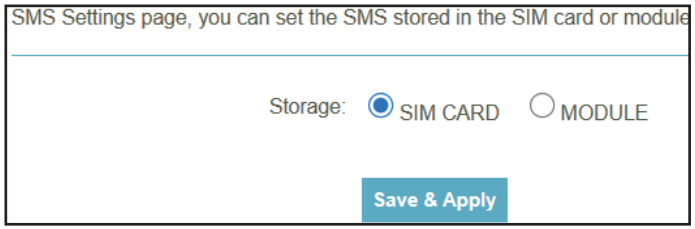
Source Indicate where the message is stored.

Select a message and click **Delete** to delete the message.

SMS Settings

Go to **LTE > SMS Settings** to configure how you would like to save your SMS messages.

Storage Select either SIM Card or Module to save the messages directly in SIM card or in the device's storage module.



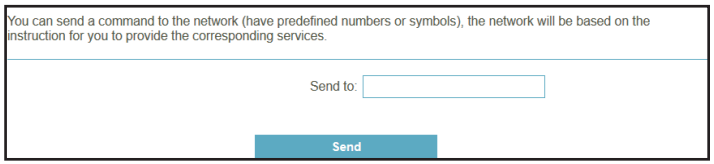
Click **Save&Apply** after you have made changes on this page.

USSD

Go to **LTE >USSD** to interact with your ISP with USSD.

Unstructured Supplementary Service Data (USSD) allows ISP-specific applications to be activated with an SMS message.

Send to Enter a predefined code or symbols to send via USSD.
Enter an application activation code and click **Send**.



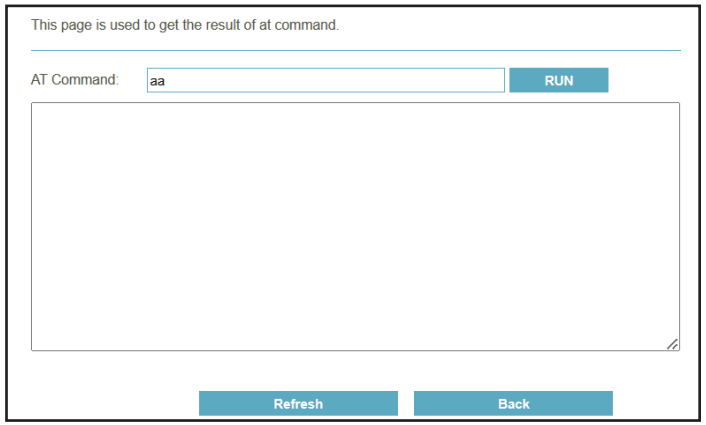
Click **Send** to send your request.

AT Command

Go to **LTE > AT Command** to send and receive device and cellular network parameters via the AT command.

AT Command Enter the command.

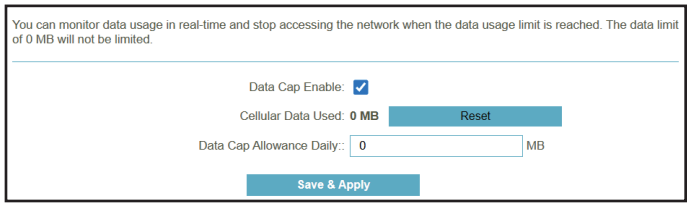
Click **RUN** to execute your command. Click **Refresh** to reload the result.



Data Cap

Go to **LTE > Data Cap** to set a limit on mobile network data usage. Once the limit is reached, data traffic will be discontinued.

Data Cap Enable Enable the data limit function and enter the maximum volume allowed in MB every day in **Data Cap Allowance Daily**.



Click **Reset** to reset the daily limit counter. Click **Refresh** to reload the result.
Click **Save&Apply** after you have made changes on this page.

Band Setting

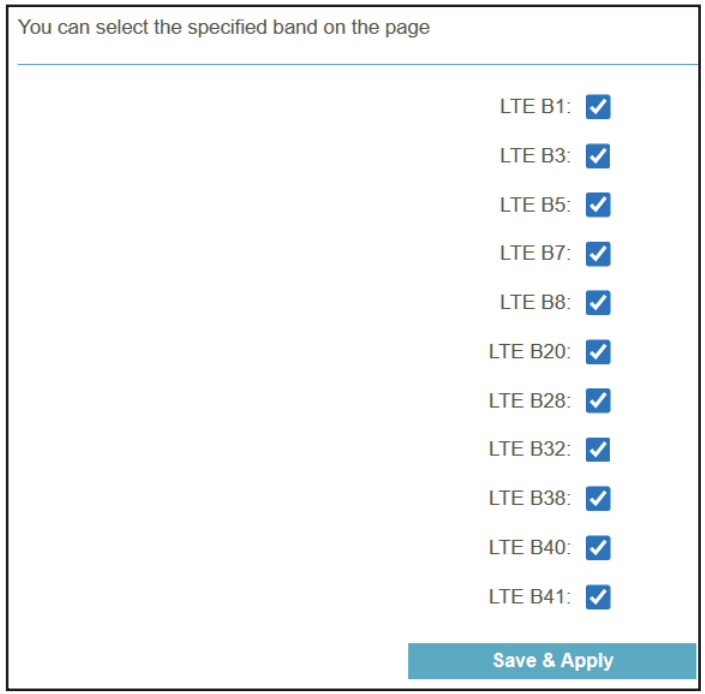
Go to **LTE > Band Setting** to select the bands for LTE.

Available Bands

LTE B1
LTE B3
LTE B5
LTE B7
LTE B8
LTE B20
LTE B28
LTE B32
LTE B38
LTE B40
LTE B41

Select one of the available bands to operate with the LTE connection.

Then click **Save&Apply** to save your changes.



LTE FOTA

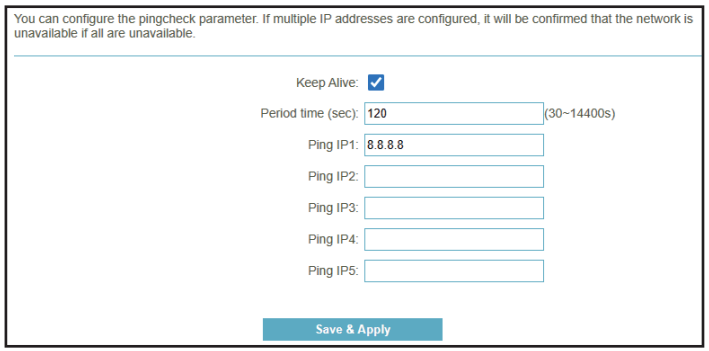
Go to **LTE > LTE FOTA** to update the firmware of the LTE module of the device remotely.

Update Click Update to update the firmware immediately.

Keep Alive

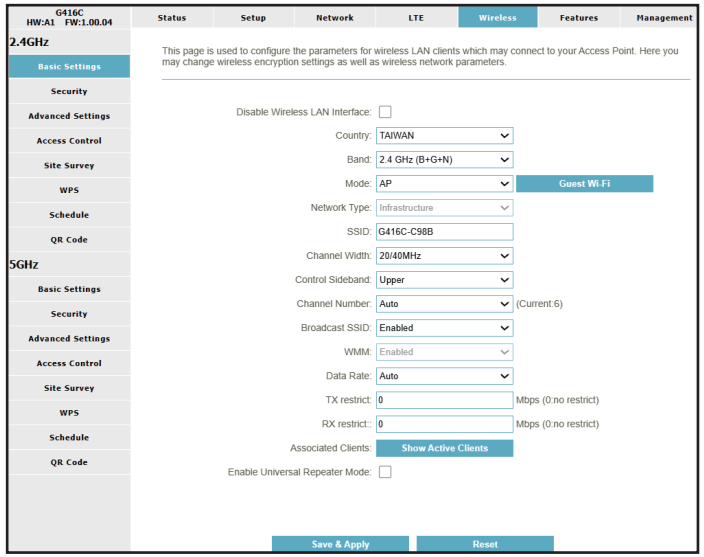
Go to **LTE > Keep Alive** to check and verify the availability of a destination host.

Default Route	
Keep Alive	Enable or disable the Ping function
Period time (sec)	Enter the timeout value of the ICMP packets in seconds.
Ping IP 1/2/3/4/5	Enter the IP address or web address to be the destination address.



Wireless
Basic Settings

Go to **Wireless > Basic Settings** to configure wireless network parameters. Select **Disable** to disable wireless function.



Disable Wireless LAN Interface — Enable or disable 2.4GHz or 5GHz wireless interface.

Country — Select the country in which you deploy the router.

Band (2.4 GHz) — Set the wireless band that you need. Default is the mixed 802.11b, g, and n mode. It is strongly recommended that you set the Band to "802.11b/g/n" for wider compatibility if you have 802.11b, 802.11g, and 802.11n wireless clients in your network.

Band (5 GHz) — Set the wireless band that you need. Default is "5 GHz (A+N +AC+AX)". It is strongly recommended that you set the Band to the default option for wider compatibility if you have wireless clients of these standards in your network.

Mode — WLAN working mode: AP or Client.

Multiple AP — If you choose AP mode above, you can partition your wireless network with different SSIDs, for example, a guest SSID.

Network Type — Configure WLAN network type if you select Client mode above: Infrastructure or Ad hoc. The ad hoc mode does not require a centralized AP or wireless router among the connected wireless nodes.

SSID Set a name (SSID) for your wireless network. User must access the wireless network through it. However, if you select the Client mode above, this field becomes the SSID of the AP you want to connect with. The Site Survey **(Wireless > Site Survey)** page allows you to select a wireless network to join and fill in the SSID automatically after you select the Client mode above.

Add to Profile Click this to save the above configured settings as a profile. You can later configure the security requirements for the saved profile in the Security setting **(Wireless > Security)**.

Channel Width (2.4 GHz) Select a proper channel bandwidth for optimal wireless performance. Select 40MHz if you are using only 802.11n devices.

Channel Width (5 GHz) Select a proper channel bandwidth for optimal wireless performance. Select higher throughput (80 MHz) if you are running bandwidth-demanding applications in a uncongested network environment.

Control Sideband (2.4 GHz) Control channels are only applicable if your router is operating the 802.11n standard. The lower side band means channels 1-7 will be used whereas upper side band will use channels 5-13.

Control Sideband (5 GHz) Control channels are only applicable if your router is operating the 802.11n standard. Select Auto, which is also the default.

Channel Number (2.4 GHz) For an optimal wireless performance, you may select the least interferential channel. It is advisable that you select an unused channel or "Auto" to let the router detect and select the best possible channel for your wireless network.

Channel Number (5 GHz) For an optimal wireless performance, you may select the least interferential channel. It is advisable that you select an unused channel or "Auto" to let the router detect and select the best possible channel for your wireless network. DFS (Dynamic Frequency Selection) allows more channels to be used when operating in 5 GHz band.

Broadcast SSID	You may choose to visible or invisible SSID broadcast. When it is enabled, the router SSID will be broadcast in the wireless network, so that it can be scanned by wireless clients and they can join the wireless network with this SSID.
WMM	Enable or disable Wi-Fi Multimedia Quality of Service (WMM QoS) for your wireless network. This can help to improve the quality of video and voice applications for your wireless clients.
Data Rate	Select the appropriate data rate for your wireless network. Auto is recommended.
TX /RX restrict:	Limits transmit/receive data rates (0 means no restriction)
Associated Clients	This option shows you all the clients that are connected to this SSID with the following information: ACL, MAC Address, Mode, total Tx/Rx data, Tx rate, power saving, expiration time, and signal level.
Enable Universal Repeater Mode	Configure the AP function to be in repeater mode. This mode allows you to extend the coverage of an existing wireless network and the repeater router will connect to a main router via Wi-Fi.
SSID of Extended Interface	Enter the SSID of the extended network. You can also go to the Site Survey page **(Wireless > Site Survey)** to select a main router to connect to.
Add to Profile	Click this to save the configured Repeater Mode setting. You can later configure this Repeater profile in the Security setting (**Wireless > Security**)

Click **Save&Apply** after you have made changes on this page.

Guest Wi-Fi	
AP1-AP4	Enable or disable each Guest Wi-Fi network
Band	Select the wireless bands for the AP.
SSID	Enter the wireless name for the AP.
Broadcast SSID	Enable or disable the SSID to be broadcast in the network.

WMM	Enable or disable Wi-Fi Multimedia Quality of Service (WMM QoS) for 802.11b, 802.11g, or 802.11a network.
Active Client List	Display currently connected clients with the following information: ACL, MAC Address, Mode, total Tx/Rx data, Tx rate, power saving, expiration time, and signal level.

Click **Save&Apply** after you have made changes on this page.

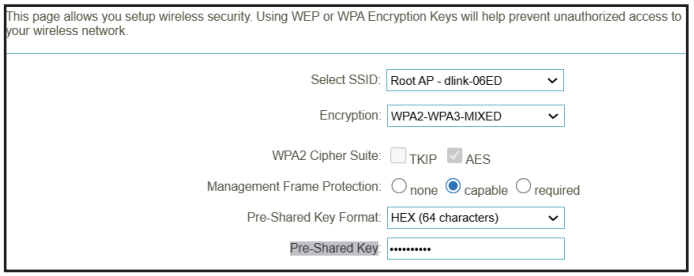
Show Active Clients	
Associated Clients	This option shows you all the clients that are connected to this SSID with the following information: ACL: Shows the access control list that this client has been assigned to. MAC Address: Shows the MAC address of the wireless client. Mode: The wireless standard used for client connection. Tx/Rx Packets: The total number of transmitted/received packets. Tx Rate: The transmission rate (Mbps) of this wireless connectivity. Power saving: Shows if power saving has been enabled. Expiration time: Shows the expiration of the DHCP assignment (seconds). Signal Level: Shows the strength of the transmission signal. Online(s): Shows how long this client has been online (seconds).

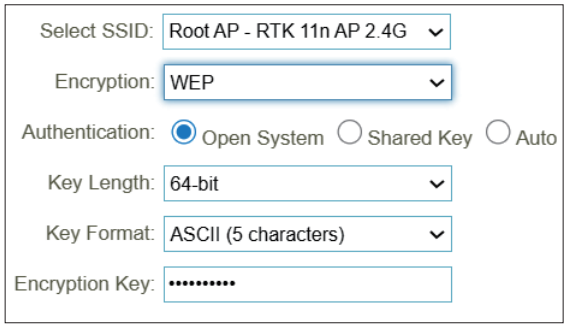
Wireless Profile List	
Enable Wireless Profile **Wireless Profile List**	Enable this to display wireless profiles configured and then added above. The following information about the wireless network will be displayed.
SSID	The wireless name for the AP.
Encryp	The security method used for this wireless network.

Click **Delete Selected** to delete a selected wireless profile or click **Delete All** to delete all records of the list.

Security

Go to **Wireless > Security** to configure the security for the wireless network.





Security Settings	
Select SSID	Select one of the SSIDs if you have configured multiple SSIDs in your network.
Encryption	Select one of the encryption methods for your wireless network: Disable, WEP, WPA2 (AES), WPA-Mixed (a mixed mode of WPA and WPA2), WPA3, or WPA2/WPA3-mixed (the default).
WPA/WPA2 Cipher Suite	Select the cipher suite (TKIP or AES) for the respective WPA encryption selected above.
Authentication (WEP)/Key Length/ Key Format	Select **Open System**, **Shared Key**, or **Auto** if WEP is selected for Encryption. **Key Length:** Select 64 or 128 bit for the WEP key. **Key Format:** Select ASCII or HEX and enter the below **Encryption key** accordingly. For ASCII, enter alpha-numeric characters. For Hex, enter hexadecimal characters (0-9, a-f or A-F).
Encryption Key	Enter the encryption key with the required number of characters according to the specified key length and format.
Authentication Mode (WPA)	Enterprise (RADIUS) or Personal (Pre-Shared Key)
Management Frame Protection	Select the method to protect the management frame for enhanced wireless security for WPA2 and WPA3: None, Capable, or required. Note that both the AP and wireless clients must have this feature enabled for it to work.

SHA256 If Capable is selected for Management Frame Protection. Enable or disable SHA256 encryption if WPA2 (AES) is selected as the hash algorithm.

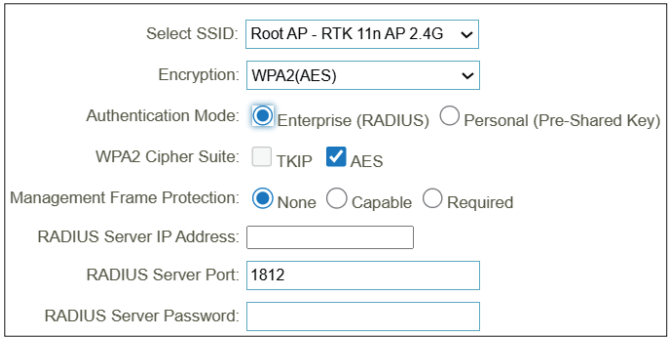
Pre-Shared Key Format Select either HEX or passphrase for your pre-shared key. For HEX, you must enter hexadecimal characters (0-9, a-f or A-F).

Pre-Shared Key Enter the pre-shared key with the required number of characters according to the format selected above.

RADIUS Server IP Address Enter the IP address of the RADIUS server if RADIUS is selected as the Authentication Mode.

RADIUS Server Port Enter the port number to communicate with a RADIUS server.

RADIUS Server Password Enter the password for RADIUS connection.



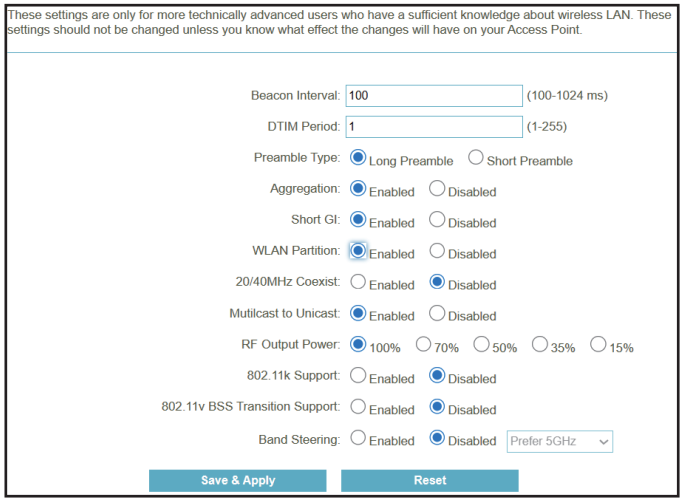
Note: The WPS will be disabled unless **WPA2 (AES)** is configured as the security method (refer to the above Encryption setting); the factory default setting of wireless security is WPA2/WPA3-mixed.

Click **Save&Apply** after you have made changes on this page.

Advanced Settings

Go to **Wireless > Advanced Settings** to configure more advanced parameters for the wireless network.

Security Settings



Beacon Interval (100-1024 ms) Specify the time interval between beacon transmissions in milliseconds. The default is 100 MS.

DTIM Period (1-255) Configure the DTIM (Delivery Traffic Indication Map) interval to inform clients when multicast or broadcast data is ready for delivery. The default is 1.

Preamble Type A long preamble is more reliable but adds transmission overhead, while a short preamble is faster but does not support legacy 802.11b devices. The default is Long Preamble.

Aggregation Aggregation in increases efficiency by combining multiple data frames into one transmission. The default is enabled.

Short GI A Short Guard Interval (GI) can increase wireless speed in clean, optimal environments but may reduce reliability in crowded or interference-prone areas. The default is enabled.

WLAN Partition Enable or disable the partitioning to prevent wireless clients from communicating with each other. The default is disabled.

20/40MHz Coexist Enable or disable 20/40 MHz coexistence to improve network stability by preventing interference from overlapping 40 MHz channels. The default is disabled.

Multicast to Unicast Convert multicast packets to separate unicast packets to each client device. The default is enabled.

RF Output Power Define the output power level of wireless signal transmitted. The default is 100%.

802.11k Support Help clients discover neighbor APs when site survey is performed. The default is disabled.

802.11v BSS Transition Support Help clients choose a better AP to switch to in roaming. The default is disabled.

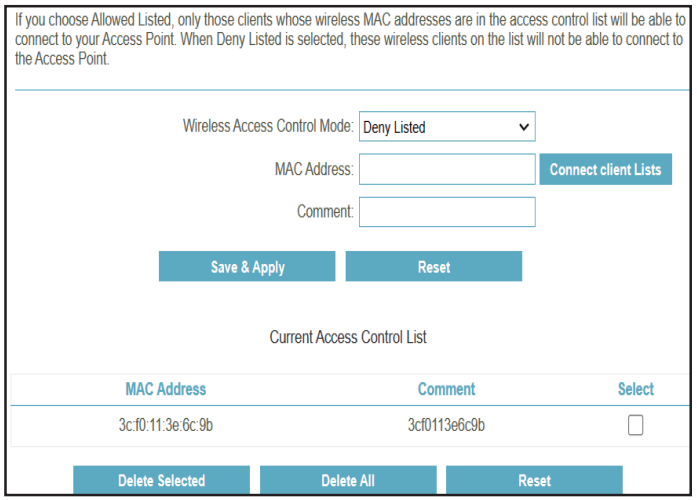
Band Steering Guide dual-band client devices to connect to 2.4 or 5 GHz band. The default is disabled.

Access Control

Go to **Wireless > Access Control** to configure which devices can access the wireless network.

Access Control Settings	
Wireless Access Control Mode	Define whether this is an allowed or a disallowed list. For allowed list, only clients listed in the ACL can connect to the router.
MAC Address	Enter the MAC address of the controlled client or select the connected clients to add into the list by clicking **Connect Client List.**
Comment	Enter a brief note for this entry.

Click **Save&Apply** at any time to save the changes you have made on this page. You can click **Reset** to discard your entry. The table below will display the Access Control list to allow further modification. You can delete any entry or reset all the configured list.

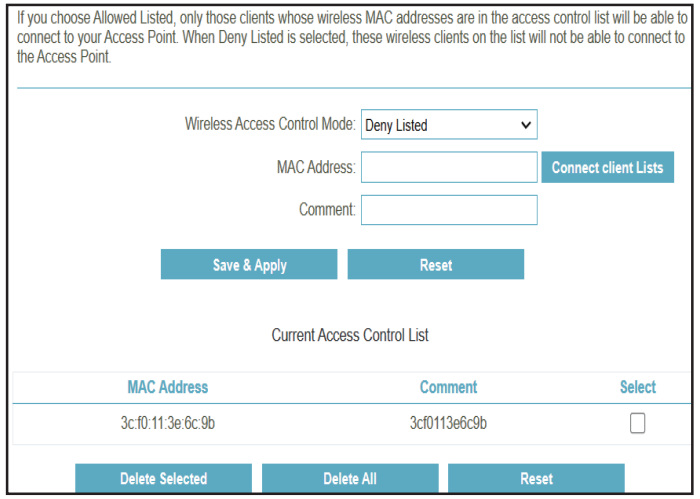


Site Survey

Go to **Wireless > Site Survey** to join an established wireless network.

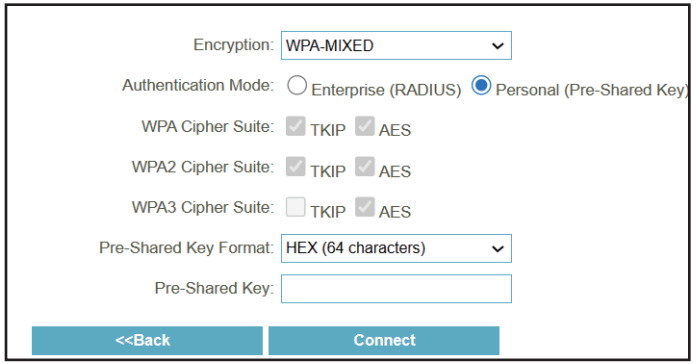
To begin, click Site Survey to start scanning for available wireless networks with relevant information.
The following information is displayed in the result table.

Site Survey Results	
SSID	Displays the wireless network name.
BSSID	Displays the Wi-Fi AP's MAC address**.**
Channel Number	The channel along with the Wi-Fi standard used on the network.
Type	Displays whether it is an AP or other mobile device.
Encryption	The encryption method used on this network.
Signal	Indicates the strength of the signal. Higher number means stronger signals.



You can select a found wireless network to join after you have configured the router to operate in the Client or Repeater mode in the Basic Settings in Wireless configuration.. Click **Next** after you have selected a network.

Connection Settings	
Encryption	Select the encryption method used on the network: None, WEP, or WPA mixed.
Key Type	If you chose WEP above, select Open, Shared, or Both
Key Length	Select either 64 or 128 bit for the key.
Key Format	Select either ASCII or Hex. For HEX, you must enter hexadecimal characters (0-9, a-f or A-F)
Authentication Mode	For WPA encryption, select either **Enterprise** or **Personal**.
WPA/WPA2/WPA3 Cipher Suite	Select the cipher suite for the respective WPA encryption selected above: TKIP or AES.
Pre-Shared Key	Enter the pre-shared key according to the format selected above.

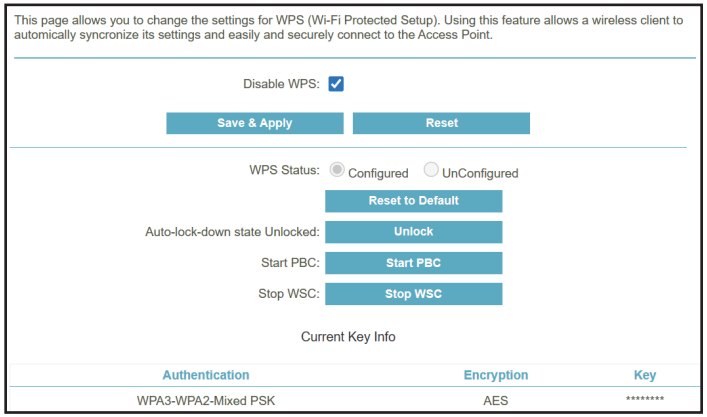


Click **Save&Apply** after you have made changes on this page.

WPS

Go to **Wireless > WPS** to establish an automatic connection with a wireless client via Wi-Fi Protected Setup (WPS).

The default setting—Disable WPS will disable both the software WPS feature and the physical WPS button.



WPS Settings	
Reset to Default	Reset all Wi-Fi settings to the chipset default values: SSID: RTK 11n AP 2.4G/5G (note: different from the factory default) Security: disabled (note: different from the factory default) WPS: disabled Access Control: disabled Wireless Schedule: disabled
Auto-lock-down state Unlocked	Unlock the current WPS state to start it again.
Start PBC	Click this button to start the WPS process. You may also use the physical WPS button on the back of the router. After the WPS process is initiated, push the PBC button on the client device or via the software client utility within 2 minutes. You can also use the physical button on the device (refer to **WPS Button** on page **92**).
Stop WSC	Click this button to stop the WPS process.

The table below displays the currently configured wireless parameters that will be used for WPS for an encrypted connection.

Note: The WPS will be disabled unless **WPA2 (AES)** is configured as the security method (refer to **Security** on page **63)**; the factory default setting of wireless security is WPA2/WPA3-mixed.

Click **Save&Apply** at any time after you have made changes on this page. Click **Reset** to discard your changes.

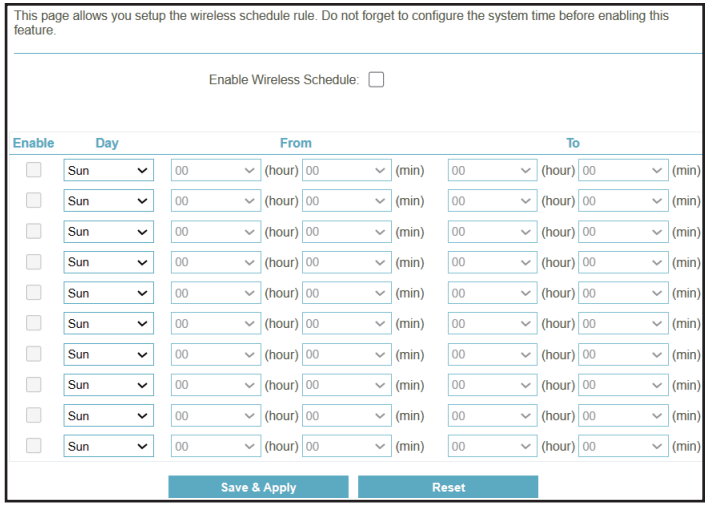
Schedule

Go to **Wireless > Schedule** to enable wireless function according to a pre-configured schedule.

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

Wireless Schedule Settings	
Enable Wireless Schedule	Enable wireless scheduling function.
Day	Select a weekday for the schedule.
From /To	Select the start time (HH:MM) and end time (HH:MM) with the clock time (0~23) for the schedule.

You can click **Reset** to discard the changes your have made on this page. Click **Save&Apply** after you have made changes on this page.



QR Code

Go to **Wireless > QR Code** to access the QR code for wireless network setting.

The QR code can be downloaded and shared to mobile devices so they can use the network settings to connect to the router.

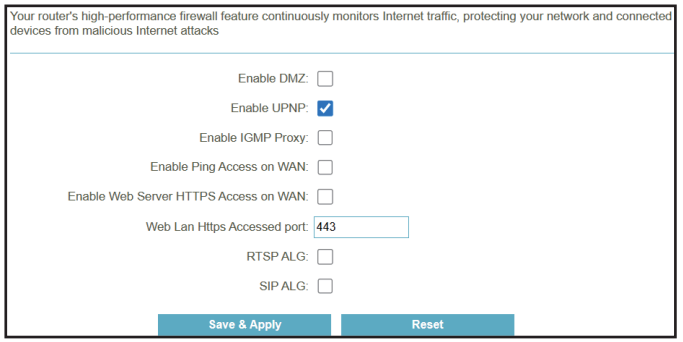
Features

Advanced

Go to **Features > Advanced** to configure the router's firewall settings.

The firewall feature protects your network from malicious attacks over the Internet.

Advanced Firewall Settings	
Enable DMZ	Enable or disable Demilitarized Zone (DMZ). Devices in this zone are completely exposed to threats over the Internet. This is not recommended unless they are servers that must be exposed to the WAN.
DMZ Host IP Address	If you enable DMZ, enter the IP address of the client to be placed in this zone, or use the drop-down menu to quickly select one of the clients.
UPNP	UPnP allows network devices to seamlessly discover each other on the local network for network services such as file sharing and advanced media functions. Select this option to allow UPnP (Universal Plug and Play) passthrough the router.
Enable IGMP Proxy	Allow or disallow IPv4 multicast traffic to pass through the router from the Internet.
Enable Ping Access on WAN	Allow ping from the WAN interface.
Enable Web Server HTTPs Access on WAN	Allow encrypted web access from the WAN interface. Then enter the https port number for both the LAN and WAN side connection.



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

SIP ALG 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 Application Layer Gateway off.

Click **Save&Apply** after you have made changes on this page.

Port Filtering

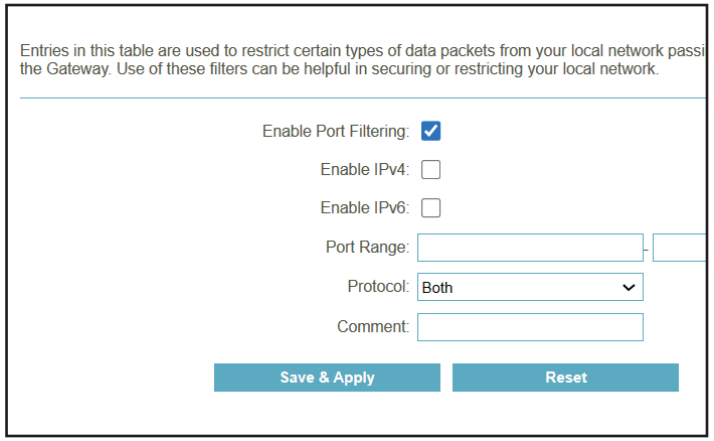
Go to **Features > Port Filtering** to restrict certain types of traffic to pass through the router.

To begin, select **Enable Port Filtering**.

Select **Enable IPv4** to configure rules for filtering IPv4 traffic or select **Enable IPv6** for filtering IPv6 traffic based on port numbers.

Port Filtering Settings	
Port Range	Enter the start and end port that the rule will apply to.
Protocol	Select the protocol of the traffic: TCP, UDP, or Both.
Comment	Write a brief description for this rule.

A maximum of 20 rules can be defined. Click **Save&Apply** after you have made changes on this page.



IP Filtering

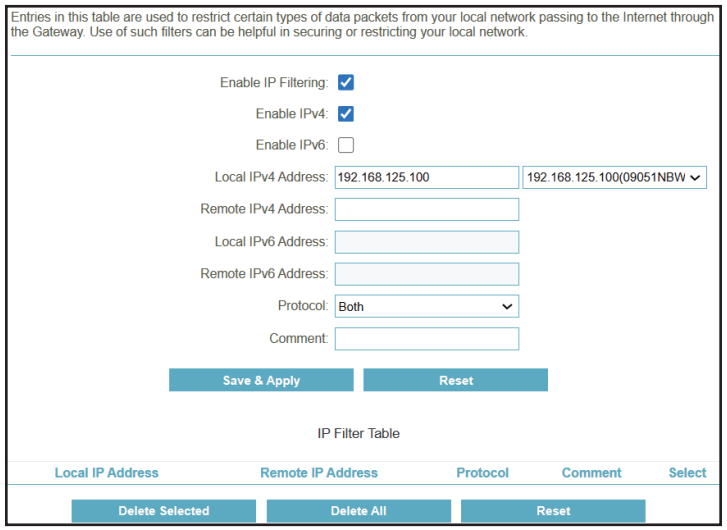
Go to **Features > IP Filtering** to restrict certain types of traffic from specified LAN clients to pass through the router.

To begin, select **Enable IP Filtering**.

Select **Enable IPv4** to configure rules for filtering IPv4 traffic or select **Enable IPv6** for filtering IPv6 traffic.

IP Filtering Settings	
Local IPv4/IPv6 Address Range	Enter the source IP address (e.g. 1.1.1.1 for IPv4 or 2001::1 for IPv6) that the rule will apply to.
Remote IPv4/IPv6 Address Range	Enter the destination IP address (e.g. 1.1.1.1 for IPv4 or 2001::1 for IPv6) that the rule will apply to.
Protocol	Select the protocol of the traffic: TCP, UDP, or Both.
Comment	Write a brief description for this rule.

A maximum of 20 rules can be defined. Click **Save&Apply** after you have made changes on this page. You can later delete a configured rule from the IP Filter Table.



MAC Filtering

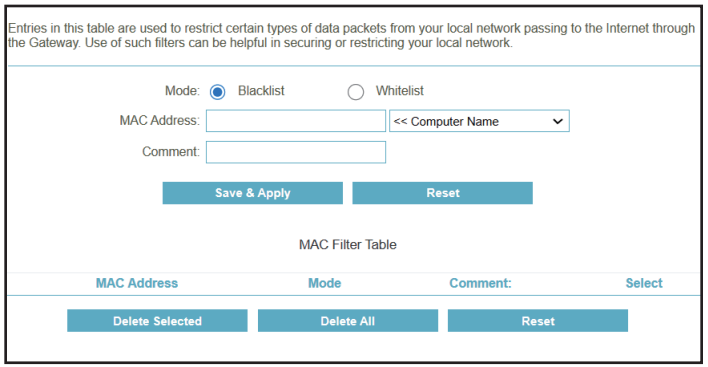
Go to **Features > MAC Filtering** to allow or disallow the specified LAN clients to access the Internet through the Router.

Select **Blacklist** to block access or select **Whitelist** to allow access. A Whitelist will allow only specified devices on the MAC Filter Table to access the Internet while all other devices will be blocked Internet access.

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

MAC Filtering Settings	
MAC Address Range	Enter the MAC address of a LAN client that the rule will apply to.
Comment	Write a brief description for this rule.

A maximum of 20 rules can be defined. Click **Save&Apply** after you have made changes on this page. You can alter delete a configured rule from the MAC Filter Table.

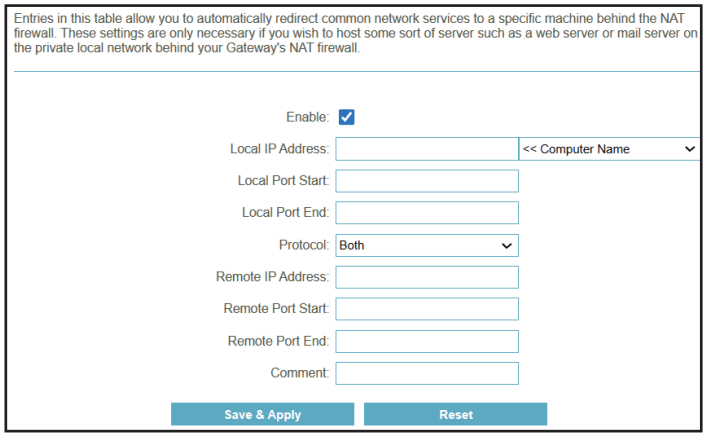


Port Forwarding

Go to **Features > Port Forwarding** to specify a port or range of ports to open for specific devices on the network.

The Port Forwarding might be necessary for certain applications to connect through the router. For example, access from the Internet can be redirected to a DMZ host using Port Forwarding.

To begin, select **Enable**.
Click **Save &Apply** at any time to save the changes you have made on this page.



Local IP Address — Enter the IP address of the computer on your local network to which you want to direct the incoming service.

Local Port Start — Enter the Start port that the rule will apply to. You can enter a single port or a range of ports.

Local Port End — Enter the End port that the rule will apply to. You can enter a single port or a range of ports.

Protocol — Select the protocol to apply the rule to: **TCP, UDP**, or **Both**.

Remote IP Address — Enter the IP address of the computer in the Internet from which you want to receive the incoming service.

Remote Port Start — Enter the Start port that the rule will apply to. You can enter a single port or a range of ports.

Remote Port End — Enter the End port that the rule will apply to. You can enter a single port or a range of ports.

Comment — Enter a brief description for this rule.

A maximum of 20 rules can be defined. Click **Save&Apply** after you have made changes on this page. You can alter delete a configured rule from the Port Forwarding Table.

URL Filtering

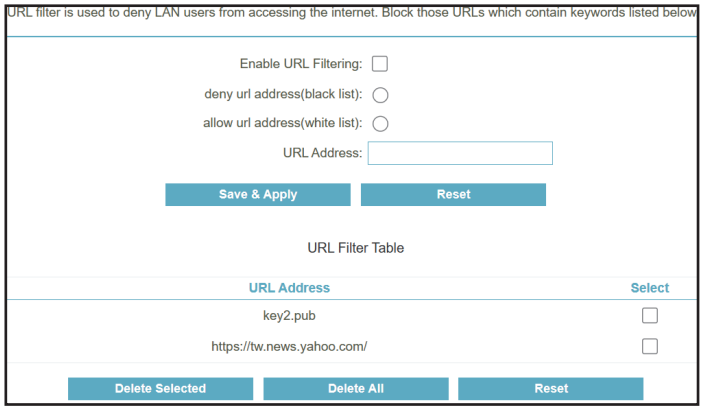
Go to **Features > URL Filtering** to allow or block LAN users from accessing certain websites.

To begin, select **Enable URL Filtering**. Then specify whether it is a **white list** (allowed URL list) or **black list** (blocked URL list).

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

URL Filtering	
URL Address	Enter the address of a website. This controls access to websites based on a website's address. For example, enter "www.ABC.com." You can also control access to websites based on the keywords with matching URLs. For example, use "ABC" to block "www.ABC.com" and "xxx.ABC.com" and other URLs containing ABC.

A maximum of 16 rules can be defined. You can delete an existing entry by clicking **Delete Selected** or **Delete All**. Or click **Reset** to cancel your selection.



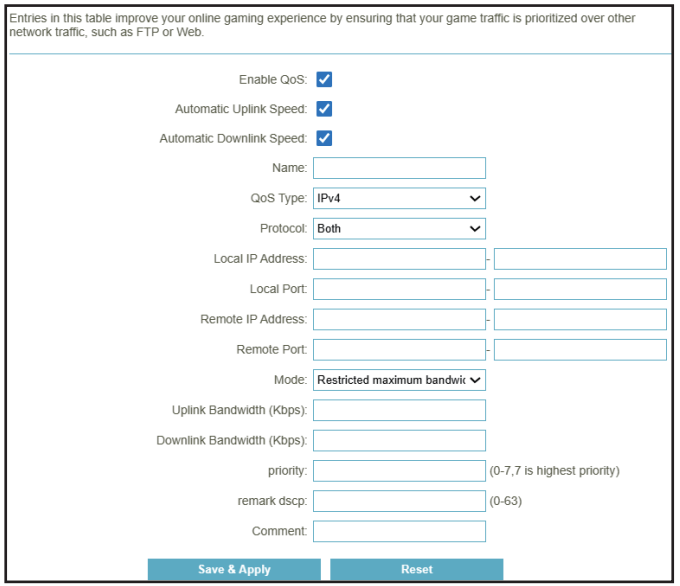
QoS

Qos ensures that critical traffic receives higher priority over less important traffic. Go to **Features > QoS** to access this feature.

To begin, select **Enable QoS**. Then select whether to use automatic downlink and uplink speed. If automatic speed is not used, enter the speed in Kbps manually.

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

QoS	
Name	Enter a name for the QoS rule.
QoS Type	Select the traffic type for QoS control: IPv4/IPv6, MAC address, Physical port (1-4), or DSCP (Differentiated Services Code Point) value. For IPv4/IPv6 traffic type: Enter either the Local or Remote IP address and the associated port numbers. For MAC Address, enter the MAC address. For DSCP, enter the DSCP value (0-63).
Mode	Select either a restricted maximum bandwidth or a guaranteed minimum bandwidth should be used to control the selected traffic class.
Uplink /Downlink Bandwidth (Kbps)	Enter the bandwidth in Kbps according to the above selected restriction method.
Priority	Assign a priority for this type of traffic from 0 to 7.
Remark DSCP	Assign a new DSCP value for QoS classification
Comment	Enter a brief note for this rule.



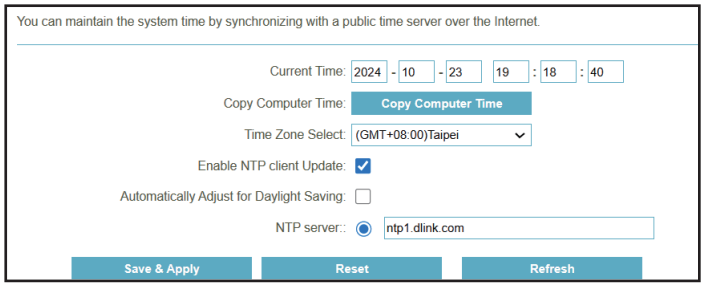
A maximum of 10 rules can be defined. You can delete an existing entry by clicking Delete Selected or Delete All. Or click Reset to cancel your selection.

Management
Time Zone Setting

Go to **Management > Time Zone Setting**.

The **Time Zone Setting** 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.

Time Configuration	
Current Time	Enter the date and time in 24-hour clock using the following format: YYYY-MM-DD hh:mm:ss
Copy Computer Time	Import the time from your computer.
Time Zone	Select your time zone from the drop-down menu.
Time	Displays the current date and time of the router.
Enable NTP client Update/NTP Server	Enter the NTP server's IP address or server name for automatic time synchronization
Automatically Adjust for Daylight Saving	Enable the daylight savings time option if NTP is enabled.

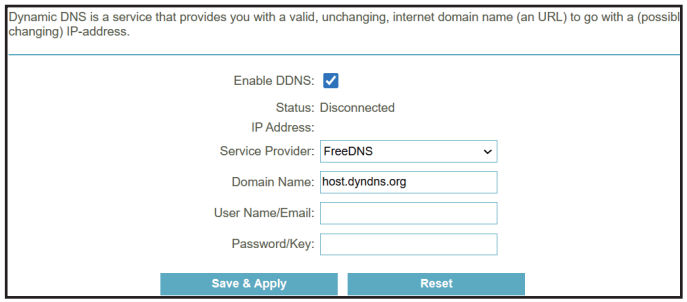


Click **Save&Apply** after you have made changes on this page.

DDNS

Go to **Management > DDNS**. This page allows your router to associate an easy-to-remember domain name such as [YourDomainName].com with a regularly changing IP address assigned by your Internet Service provider.

DDNS Settings	
Enable Dynamic DNS	Enable or disable dynamic DNS. Enable this feature to display more configuration options.
Status	Displays the current dynamic DNS connection status.
Service Provider	Select the DDNS service provider from the drop-down menu: DynDNS, TZO, No-IP, or FreeDNS
Domain Name	Enter the host name that you registered with your dynamic DNS service provider
User Name/Email	Enter your dynamic DNS account name
Password/Key	Enter your dynamic DNS account password

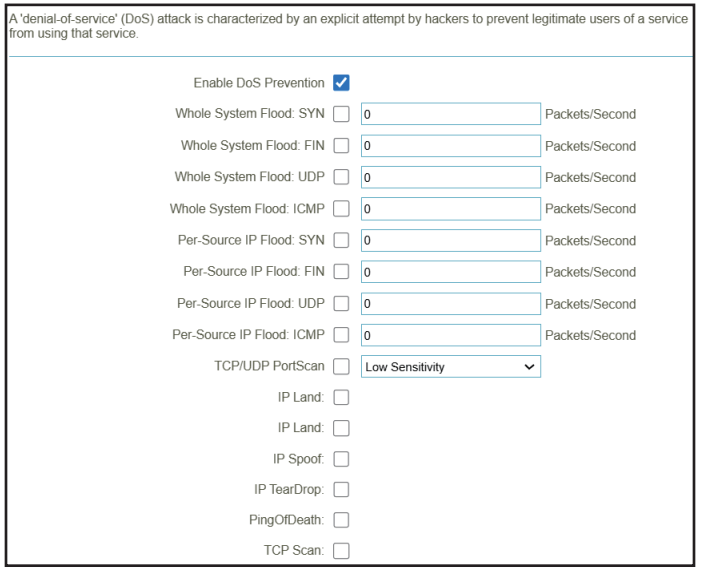


Click **Save&Apply** at any time to save the changes after you have made changes on this page.

Deny of Service

Go to **Management > Deny of Service.** This page allows your router to block various types of denial of service attacks.

To begin, select **Enable DoS Prevention** to enable **Denial of Service** attacks prevention.



Enable DoS Prevention

Enable or disable DoS prevention and configure the following different types of denial of service attack. In DoS, the attacker will send a large number of a specific type of packets trying to disrupt a service or network.

Whole System Flood

Enable the SYN flood attack prevention and define the number of **Packets/Second** as the threshold value to determine such attack.

Enable the FIN flood attack and define the number of **Packets/Second** as the threshold value to determine such attack.

Enable the UDP flood attack and define the number of **Packets/Second** as the threshold value to determine such attack.

Enable the ICMP flood attack and define the number of **Packets/Second** as the threshold value to determine such attack.

Per-Source IP Flood

Enable the SYN flood attack prevention and define the number of **Packets/Second** from a single source.

Enable the FIN flood attack prevention and define the number of **Packets/Second** from a single source.

Enable the UDP flood attack and define the number of **Packets/Second** from a single source.

Enable the ICMP flood attack and define the number of **Packets/Second** from a single source.

TCP/UDP PortScan	Select the sensitivity of Portscan detection.

Enable the following DoS prevention:

IP Land	A Land attack uses a spoofed packet in which the source and destination IP address are the same.
ICMP Smurf	ICMP Smurf floods a target system with ICMP requests.
IP Spoof	An IP spoof attack uses modified source IP addresses to deceive the target.
IP TearDrop	An IP TearDrop attack attempts to overwhelm a network or server by sending fragmented packets that cannot be reassembled into their original form
PingOfDeath	A Ping of Death (PoD) attack involves sending oversized packets to a web server, causing it to crash or become unresponsive.
TCP Scan	A TCP Scan tries to discover weak points or open ports in a network.
TCP SynWithData	TCP SYN with data tries to disrupt a web service by exploiting the TCP handshake mechanism.
UDP Bomb	A UDP Bomb tries to send a large number of UDP packets to a targeted server.
UDP EchoChargen	The Echo-Chargen attack attempts to spoof a conversation between the Echo Request/Reply service and the Chargen service.
Enable Source IP Blocking	Define the number of times per second to set the limit to block traffic from the same IP address.

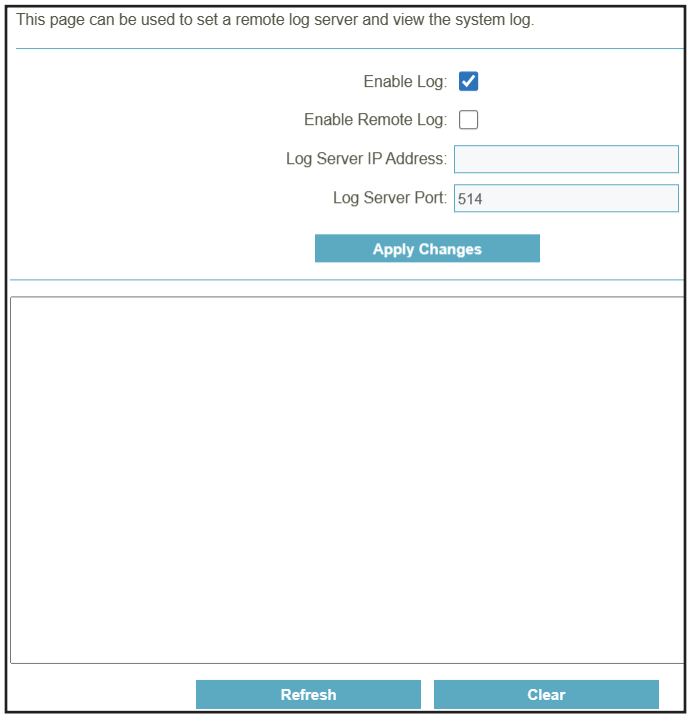
Click **Apply Changes** after you have made changes on this page.

Log

The router keeps a running log of events. Go to **Management > Log**.
This log can be sent to a Syslog server or to your email address.

Log Settings	
Enable Log	Select the **Enable Log** to enable the logging service. The system logs will be displayed in the text box below.
Enable Remote Log	Check this box to send the router logs to a SysLog Server.
Log Server IP Address	Enter the IP address of the Syslog server.
Log Server Port	Enter the port number of the Syslog server.

Click **Apply Changes** after you have made changes on this page.

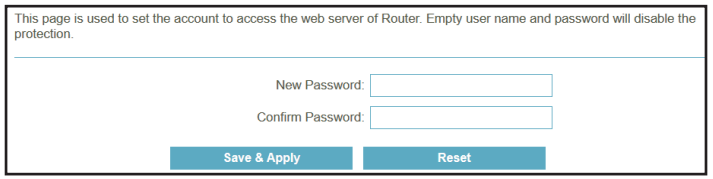


Password

Go to **Management > Password**.

The Password page allows you to change the administrator account password.s

New Password	Enter a new password.
Confirm Password	Enter the new password again.

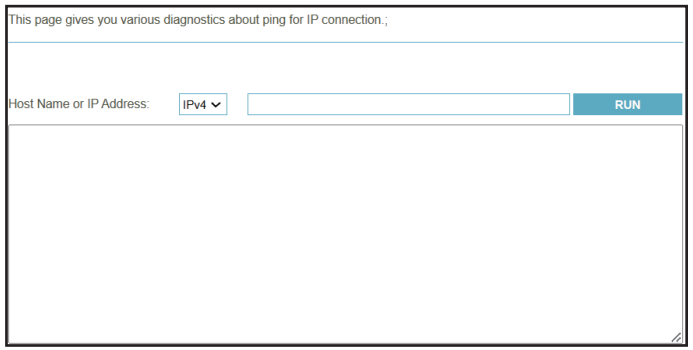


Click **Save & Apply** after you have made changes on this page.

Ping Diagnostics

Go to **Management > Ping Diagnostic** to verify the availability of a destination host.

Host Name or IP Address To perform a test, select either IPv4 or IPv6 , then enter the IP address or web address in the Address field. Then click **RUN**.

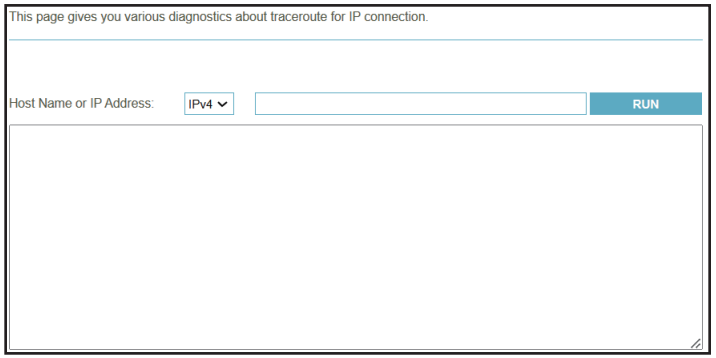


Traceroute

Go to **Management > Traceroute**.

The Traceroute page shows the route of data transferred to a destination host

Host Name or IP Address	To perform a test, select either IPv4 or IPv6 , then enter the IP address or web address in the Address field. Then click **RUN**.

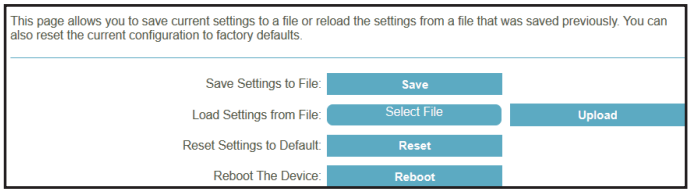


System Settings

Go to **Management > System Settings**.

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.

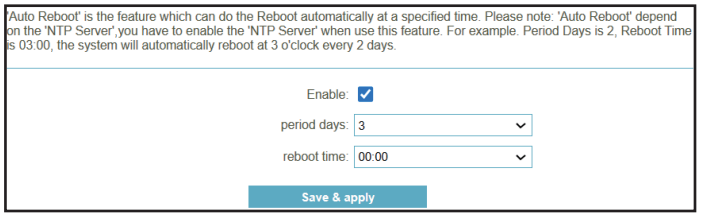
System	
Save Settings to File	This option will save the current router configuration settings to a file (dat type) on your computer.
Load Settings from File	This option will load a previously saved router configuration file. This will overwrite the router's current configuration.
Reset Settings to Default	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 back up the current router configuration settings before restoring to factory defaults, use the **Save Settings to File** function above.
Reboot the Device	Click this button to reboot the router immediately.



Auto Reboot

Go to **Management > Auto Reboot**. This page allows you to configure automatic reboot of the router.

To begin, select **Enable**.



Period Days	Select how often you want the router to perform automatic reboot: 1 means every day, 2 means every other day, etc.
Reboot Time	Select the time in 24-hour clock time to reboot the device.

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

Upgrade Firmware

Go to **Management > Upgrade** to upgrade the router's firmware.

To manually upgrade the firmware, you must first download the firmware file from **http://support.dlink.com**.

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

Firmware Information	
Current Firmware Version	Displays the current firmware version for both the main router as well as the extenders.
New Firmware Version	The new firmware version will be displayed after the new firmware file is uploaded.
Select File	Click **Select File** to upload the new firmware from you computer.
Upload	Click Upload to start uploading the new firmware.

Note: Don't disconnect or turn off your device during the firmware update process. Failure to do so may render the device unusable and require return for RMA service.

Logout

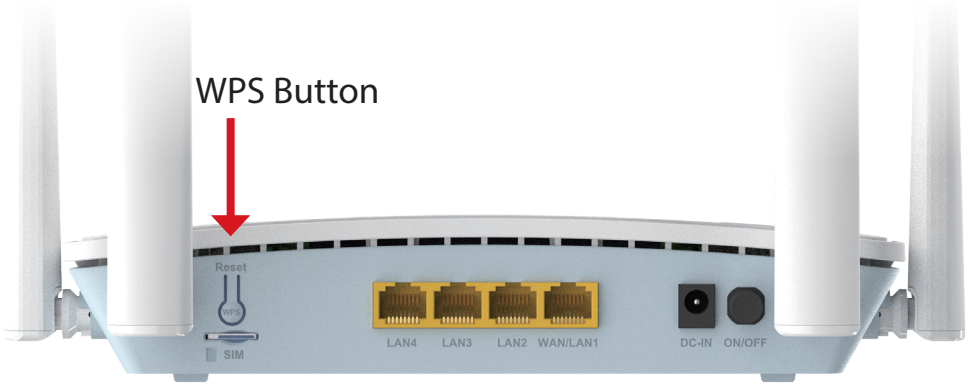
Go to **Management > Logout**.

On the Logout page, you can log out of the router. You will then be redirected to the login page of the web interface.

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 3 seconds. The Wi-Fi LED will start to blink. Note that the default WPS is *disabled*, you need to log in to the web configuration to enable it first (refer to **WPS** on page **69**).



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

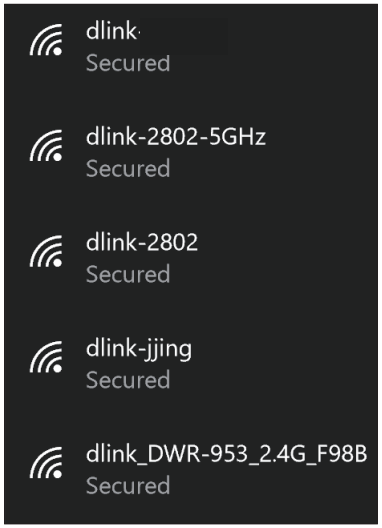
Step 3 - Allow up to 1 minute for your connection to be configured. Once the LED stops blinking, you will be connected with the configured security method. Note that WPS is available only when the *WPA2 (AES)* security is used.

Windows® 11/10

When connecting to the G416C wirelessly for the first time, you will need to input the wireless network name (SSID) and Wi-Fi password (security key) of the device you are connecting to. Refer to the product label on the bottom of the device for the default Wi-Fi network SSID and password or enter the Wi-Fi credentials set during the initial configuration.

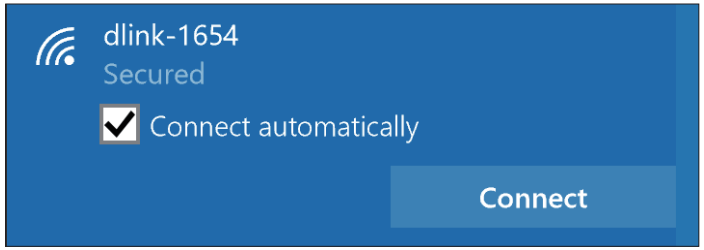
To join an existing network, locate the wireless network icon in the taskbar, next to the time display and click on it.

Clicking on the Network icon , , or to enable Wi-Fi to display a list of wireless networks which are within the range of your computer. Select the desired network by clicking on the SSID.



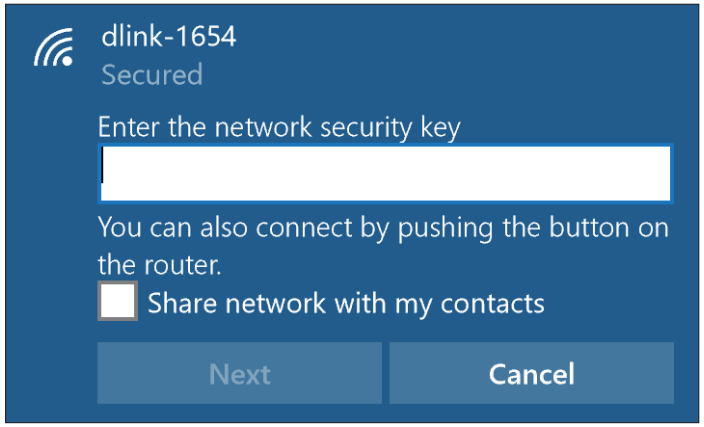
To connect to the SSID, click **Connect.**

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



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

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



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 (**192.168.125.1** 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 Edge®
  - 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.

- 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 forget my password?

If you forget 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 on the rear panel of the device. With the router powered on, press and hold the reset button for about 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 **192.168.125.1**. When logging in, enter the default device password printed on the product label attached to the bottom of the device.

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.

Technical Advancements of Wi-Fi 6

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. Over these years, Wi-Fi, a collection of wireless networking protocols based on IEEE 802.11 standard, has improved continually.

The adapter supports Wi-Fi 6 and features the following improvements over the previous wireless generations:

- MU-MIMO (Multi-User Multiple-Input Multiple-Output): Allows multiple devices to receive data simultaneously with multiple data streams.
- UL and DL Orthogonal Frequency Division Multiple Access (OFDMA): channels are divided into subcarriers to allow for simultaneous transmission among multiple devices simultaneously.
- Higher throughput than Wi-Fi 5 (the theoretical maximum is more than double)
- Overlapping Basic Service Sets (OBSS): Reduces interference by coloring traffic insidse a channel.

- Target Wake Time (TWT): Battery-powered devices can efficiently communicate awake and sleep time.

These technical innovations allow for higher speeds, much less latency, more efficient communication with multiple devices simultaneously.

You have probably noticed that more and more household devices support Wi-Fi connectivity, including televisions and home surveillance equipment. As the number of wireless and IoT devices rapidly increases, Wi-Fi 6 brings improved performance for wider-range operation and tackles the problems of resource contention. It improves communication efficiency among multiple devices transmitting data at the same time to achieve better overall bandwidth utilization.

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 with the latest WPA3 security. Refer to the product manual for detail information on how to set it up.

Networking Basics

Check your IP address

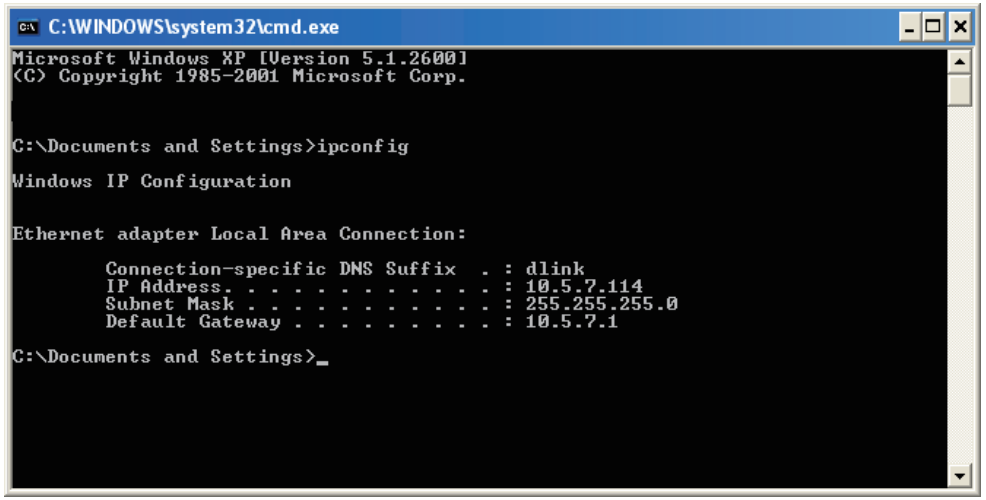
After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

Click on **Start** and type *cmd* in the **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 or 169.254.x.x check your adapter installation, security settings, and the settings on your router. Some firewall software programs may block a DHCP request on newly installed adapters.



Statically Assign an IP address

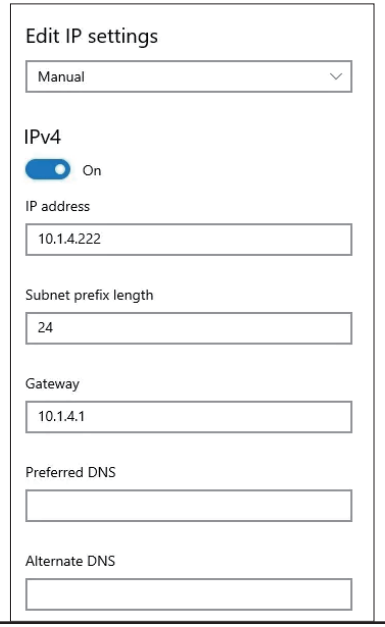
1. If you are not using a DHCP capable gateway/router, or you need to assign a static IP address, please follow the steps below:

Windows® 11/10	Start> Settings > Network & Internet.
Windows® 7 /8	Start > Control Panel > Network and Internet > Network and Sharing Center
Windows® XP	Start > Control Panel > Network Connections

2. Select **Wi-Fi > Manage known networks**. Choose the network you want to modify, right-click (Windows 7/8/XP) and then select **Properties.**

3. Under **IP assignment**, select **Edit**. For Windows 7/8/XP), select **Internet Protocol Version 4 (TCP/IPv4) Properties** or **Internet Protocol Version 6 Properties (TCP/IPv6)**. Then select **Use the Following IP Address**.

4. Under **Edit IP settings**, select **Manual**. If IPv4 is selected, type the IP address settings in **IP address, Subnet prefix length** (subnet mask), and **Gateway** fields. If IPv6 is selected, type the IP address settings in **IP address, Subnet prefix length,** and **Gateway** fields.



Example: Enter x.x.x.x for IPv4 addressing scheme (where x is between 0 and 255) and xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx for IPv6 addressing scheme (where x is a hexadecimal digit).

Set Preferred DNS the same as the LAN IP address of your router. The Alternate DNS is only optional or you may enter a DNS server from your ISP.

5. When you're done, click **Save**.

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)

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 alpha-numeric password between 8 and 63 characters long. The password can include symbols (!?*&_) and spaces. This key must be the exact same key entered on your wireless router or access point. Further, The Simultaneous Authentication of Equals (SAE) of WPA3 enhances the protection against dictionary attacks.

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.

WPA 3 has the strongest security among these with the increased cryptographic capability and the requirements of the Protected Management Frames (PMFs) to protect from snooping attack.

Technical Specifications

Device Interfaces

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

Band Information

- LTE: B1/B3/B5/B7/B8/B20/B28/B32/B38/B40/B41
- WCDMA: B1/B5/B8

Standards

- Cellular:
  - LTE CAT 6
  - WCDMA
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.11ax/ac/n/g/b/a

Antenna Types

- 2 x 2.4/5 GHz WLAN fixed external antennas
- 2 x LTE/3G fixed external antennas

Security

- WPA3/WPA2/WPA-Personal
- Wi-Fi Protected Setup (WPS)

WAN Connection Type

- Static IP
- Dynamic IP
- PPPoE

Power

- Input: 100 to 240 V AC, 50 / 60 Hz
- Output: 12 V, 1 A

Temperature

- Operating: -10 to 40 °C (14 to 104 °F)
- Storage: -40 to 70 °C (-40 to 158 °F)

Humidity

- Operating: 10% to 95% maximum, non-condensing
- Storage: 0% to 95% maximum, non-condensing

Certifications

- CE
- NCC
- RoHS

Dimensions

- L x W x H: 215 x 134.6 x 38.2 mm (8.46 x 5.3 x 1.5 in)

Weight

- 460 g (16.23 oz)

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.

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 25 cm between the radiator and your body.

CE

	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 icroprogramme 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' tniżżel 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. rendeletek rendelkezéseinek. 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 programska 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 214/53/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-samræmisyfirlýsinguna 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.
- 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 ohneeinen Access Point.
- Bitte schlagen Sie im Handbuch oder Datenblatt nach 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.
- 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.
- 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.
- 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..
- 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

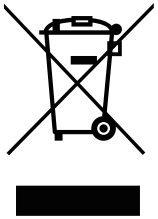
De volgende algemene veiligheidsinformatie werd verstrekt om uw eigen persoonlijke veiligheid te waarborgen en uw product te beschermen tegen mogelijke schade. Denk eraan om de gebruikersinstructies van het product te raadplegen voor meer informatie.

- 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 uhet 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

ENGLISH

EN



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

D-Link and the Environment

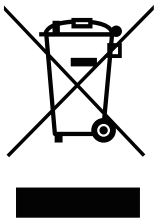
At D-Link, we understand and are committed to reducing any impact our operations and products may have on the environment. To minimise this impact D-Link designs and builds its products to be as environmentally friendly as possible, by using recyclable, low toxic materials in both products and packaging.

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

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

DEUTSCH

DE



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

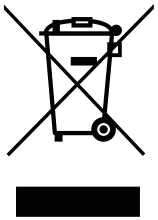
D-Link und die Umwelt

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

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

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

FRANÇAIS FR



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

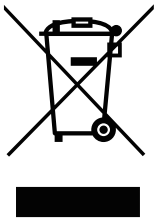
D-Link et l'environnement

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

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

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

ESPAÑOL ES



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

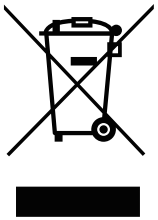
D-Link y el medio ambiente

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

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

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

ITALIANO 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.

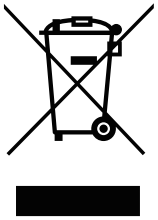
D-Link e l'ambiente

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.

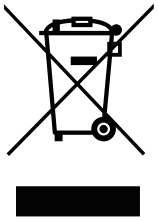
D-Link en het milieu

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.

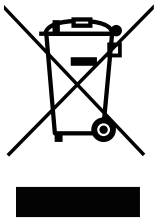
D-Link i środowisko

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, odneste jej prosím na sběrné místo určené místními úřady k tomuto účelu. Některá sběrná místa přijímají výrobky zdarma. Recyklací výrobku i obalu pomáháte chránit životní prostředí i lidské zdraví.

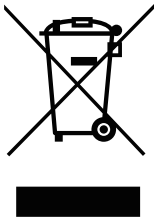
D-Link a životní prostředí

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

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

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

MAGYAR **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.

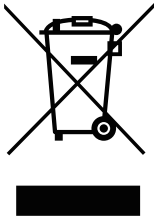
A D-Link és a környezet

A D-Linknél megértjük és elkötelezettek vagyunk a műveleteink és termékeink környezetre gyakorolt hatásainak csökkentésére. Az ezen hatás csökkentése érdekében a D-Link a lehető leginkább környezetbarát termékeket tervez és gyárt azáltal, hogy újrahasznosítható, alacsony 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 aksepteres produkter uten avgift. Ved på denne måten å gjenvinne produktet og forpakningen hjelper du å verne miljøet og beskytte folks helse.

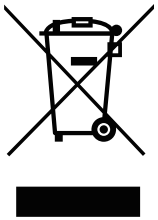
D-Link og miljøet

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

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

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

DANSK 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.

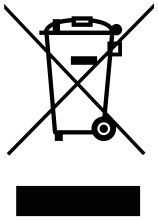
D-Link og miljøet

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.

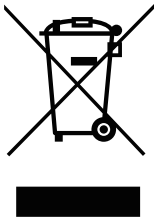
D-Link ja ympäristö

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.

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

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

SVENSKA 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.

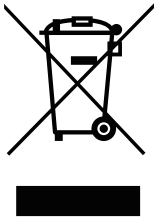
D-Link och miljön

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 meteriais recicláveis e não tóxicos tanto nos produtos como nas embalagens.

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

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