



User Manual

Wireless N300 VDSL2/ADSL2+ Modem Router

Preface

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

Manual Revisions

Revision	Date	Description
1.00	Oct 05, 2023	Initial release

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ErP Power Usage

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

Network Standby: 4.92 watts

Switched Off: 0.03 watts

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Package Contents



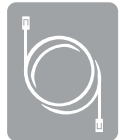
DSL-226 Wireless N300 VDSL2/ADSL2+ Modem Router



Power Adapter



Ethernet Cable



Phone Cable



xDSL Microfilter/Splitter



Quick Install Guide & Wi-Fi Configuration Card

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

Note: Using a power supply other than the one included with the DSL-226 may cause damage and void the warranty for this product.

System Requirements

Network Requirements	<ul style="list-style-type: none">• An active subscription with an Internet Service Provider using one of the following connection types:<ul style="list-style-type: none">• A VDSL or an ADSL2+ connection to a telephone line using the DSL portOr• An activated existing broadband connection (e.g. NBN™ FTTP, NBN™ HFC) using the WAN port• A computer with 802.11 n/g/b wireless or Ethernet adapter
Web-based Configuration Utility Requirements	<p>Computer with the following:</p> <ul style="list-style-type: none">• Windows®, Macintosh, or Linux-based operating system• An installed Ethernet adapter <p>Browser Requirements:</p> <ul style="list-style-type: none">• Internet Explorer 7 or higher• Safari 7 or higher• Firefox• Chrome• Microsoft Edge

Introduction

The D-Link Wireless N300 VDSL2/ADSL2+ Modem Router is designed for high-speed, multi-WAN connectivity for smart home or small business Internet access. It combines both a VDSL2/ADSL2+ modem and high-end wireless router together to create a single, compact device that connects to the Internet, and shares that connection with all of your wired and wireless devices. Its multiple WAN connections with ADSL/VDSL and Ethernet WAN accommodate different connection scenarios and offers redundancy for fail-safe operation.

The device's wireless N300 module provides high data throughput rate up to 300 Mbps utilizing the multiple-input and multiple-output (MIMO) technology. It offers concurrent Internet access with the required throughput and least interference, whether you are playing online games at home or conducting video conferences, HD multimedia streaming, or making Internet calls in an office setting. In addition to three 100 Mbps Ethernet LAN ports and one Ethernet LAN/WAN port, the router also features one USB port to support 4G LTE mobile network as well as file storage and sharing in your local network.

Some key features are described below:

- **Supporting both VDSL2 and ADSL2+** The built-in DSL modem connects to ADSL2+ or VDSL2 broadband service available in your area.
- **Compatible with 802.11 n/g/b Devices** - The DSL-226 is compatible with the 802.11n, 802.11g, and 802.11b standards, so it can connect with wireless devices operating in this wireless standards.
- **Advanced Features** - The web-based configuration displays a number of advanced network management features including:
 - **QoS & VLAN**- Supports multiple PVC configurations as well as VLAN tagging (802.1p).
 - **Filtering** - Easily apply content filtering based on URL or domain name and create IP/MAC rules to block traffic originating from or destined to the specified IP or MAC addresses.
 - **Scheduling** - The Internet accessibility and the wireless function can be scheduled.
 - **VPN** - Provides VPN connectivity using PPTP or L2TP, plus IPsec VPN for creating virtual links between two endpoints.
 - **IGMP proxy** - Supports IGMP for multicast group membership and traffic management.
 - **Firewall** - Continuously monitors Internet traffic and protects various Internet attacks, including

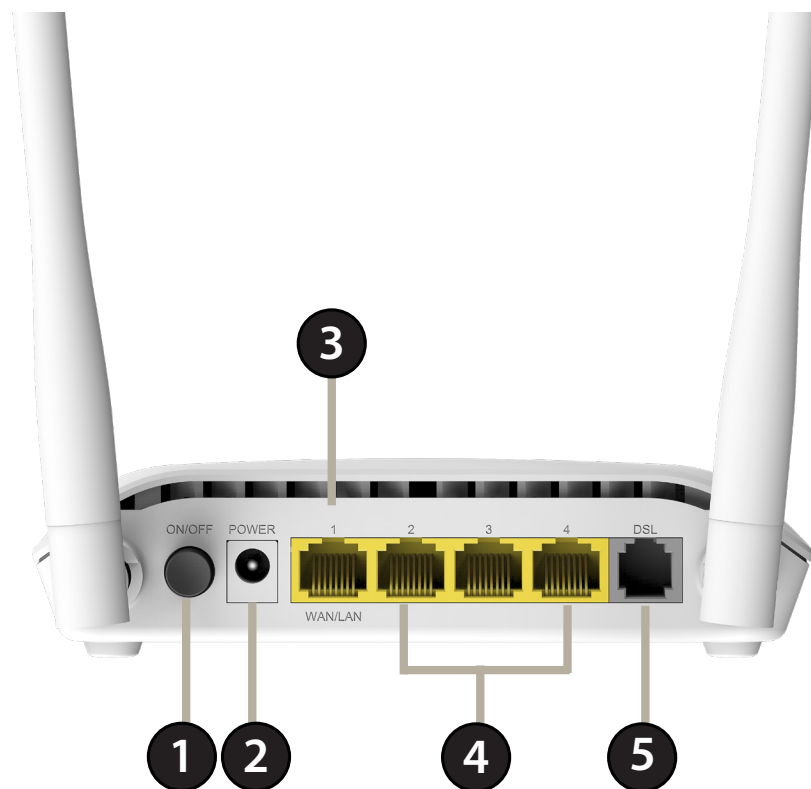
SYN/RST attack, Ping attack, and FIN/PSH attack.

- **Remote Management** - The DSL-226 can be remotely provisioned with configuration profiles uploaded by service providers, eliminating on-site management and reducing time for large-scale deployment.

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

Hardware Overview

Back Panel



1	Power Button	Power on/off switch.
2	Power Connector	Connector for the supplied power adapter.
3	WAN/LAN (1) Port	Connects to a DSL/cable modem or router or a local host at speeds of up to 100 Mbps.
4	Fast Ethernet Ports (2-4)	Connects to Ethernet devices such as computers, switches, storage (NAS) devices and game consoles at speeds of up to 100 Mbps.
5	DSL Port	Connects to a DSL-enabled telephone line.

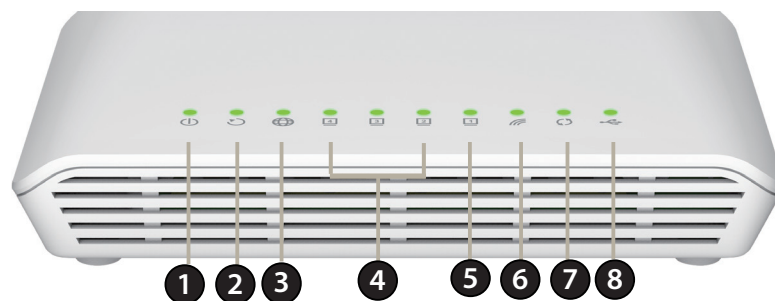
Side Panel



1	WLAN/WPS Button	Long Press: Press to enable or disable the wireless function. Press and hold this button for about 4 seconds and release it to enable or disable the wireless function. Short Press: Press to start the WPS process and automatically create an encrypted connection to a WPS client. Refer to the next page for the LED indicators of the WLAN and WPS functions.
2	USB 2.0 Port	Connects to USB flash drives to share content.
3	Reset Button (on the bottom of the device)	Press to reset the device to its factory default settings. Press the reset button by inserting the end of a straightened paper clip into the hole and hold this button for about 5 seconds and release it to reset the device. During the reset process, all lights will turn off and back on again.

Hardware Overview

LEDs



1	Power	Solid green Solid red Blinking red	Lights up green when the router is powered on and operating normally. When the router boots up or reboots, the LED lights up red. It also lights up red during the factory reset and firmware upgrade process (when the Internet LED also flashes). It flashes red when an error occurs.
2	DSL	Solid green Blinking green Off	Lights up green when the DSL connection is established through the DSL port. Flashes green when the port is negotiating a connection. Off indicates there is no DSL connection.
3	Internet	Solid green Blinking green Solid red Blinking red Off	Lights up green when there is an Internet connection. Flashes green when there is Internet activity. It is red when an Internet connection failure occurs (due to authentication failure, IP assignment failure, etc.). It flashes red when firmware upgrade is in progress. Off indicates there is no broadband connection available.
4	Ethernet (4-2)	Solid green Blinking green Off	Lights up green when the respective LAN port is connected. It flashes green when there is activity on this LAN port. Off indicates the LAN port is not connected.
5	WAN/LAN (1)	Solid green Blinking green Off	Lights up green when the Ethernet WAN port has established a successful connection. It flashes green when there is activity on this port. It is off when a connection failure occurs or the port is not connected.

6	Wireless	Solid green Blinking green Off	Lights up green when the wireless network is enabled. Flashes green when there is wireless activity. Off indicates wireless function is disabled.
7	WPS	Solid green Blinking green Off	Lights up green when a Wi-Fi Protected Setup is established successfully. Flashes green when the WPS process is active. Off indicates that WPS is idle.
8	USB	Solid green Blinking green Off	Lights up green when a USB device is connected and detected. It flashes green when data is being transmitted through the USB port. Off indicates no USB device is connected.

Installation

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

Note: This installation section is written for users who are setting up their home Internet service with the DSL-226 Wireless N300 VDSL2/ADSL2+ Modem Router for the first time. If you are connecting to an existing cable/NBN™/UFB modem or connection box, you may need to modify these steps according to your broadband technology or plan .

Before you Begin

- 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 are necessary to establish a connection. This information may include the connection type (DHCP IP, Static IP, or PPPoE) and parameter settings such as VLAN ID.
- 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.
- We suggest setting up your DSL-226 from a single device and verifying that it is connected to the Internet before connecting additional devices.
- If you have DSL and are connecting via PPPoE, make sure you disable or uninstall any PPPoE connection software such as WinPoET, BroadJump, or EnterNet 300 from your computer as the DSL-226 will be providing this functionality.

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 to 90 feet (1 to 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 (0.5 meters) thick, 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 to 6 feet or 1 to 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.

Manual Setup

Note: Power off your network devices, including your existing connection box/modem and PC.

- 1** Position your DSL-226 near your PC and a telephone wall jack that provides DSL service. Keep the router in an open area for better wireless coverage.



WALL JACK

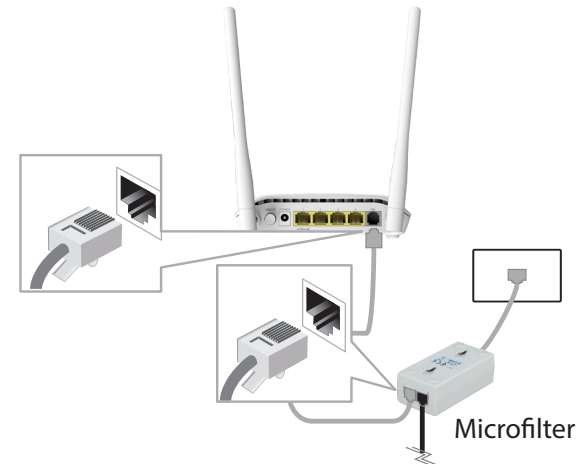
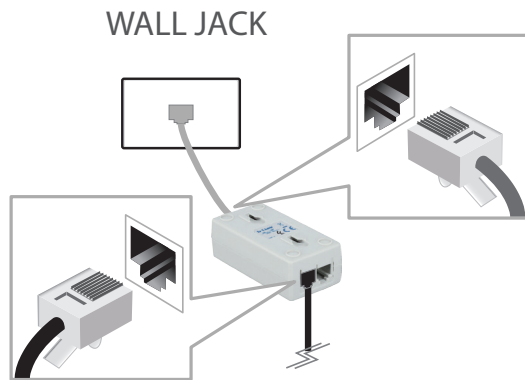


PC

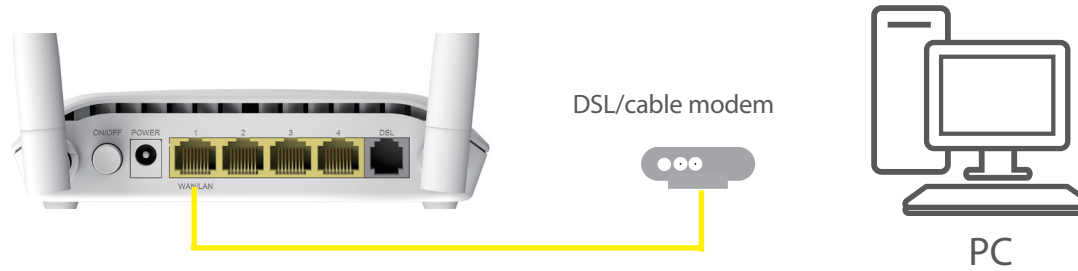
- 2-1** Use the DSL-226 as both a modem and router. Plug one end of the supplied DSL phone cable into the DSL port on the back of the router and the other end into the telephone wall jack with the supplied microfilter installed in between.

- a. Connect the supplied microfilter to your telephone wall jack with the cable labelled WALL SOCKET.

- b. Connect the supplied phone cable from the MODEM port on the microfilter to the DSL port of the router.



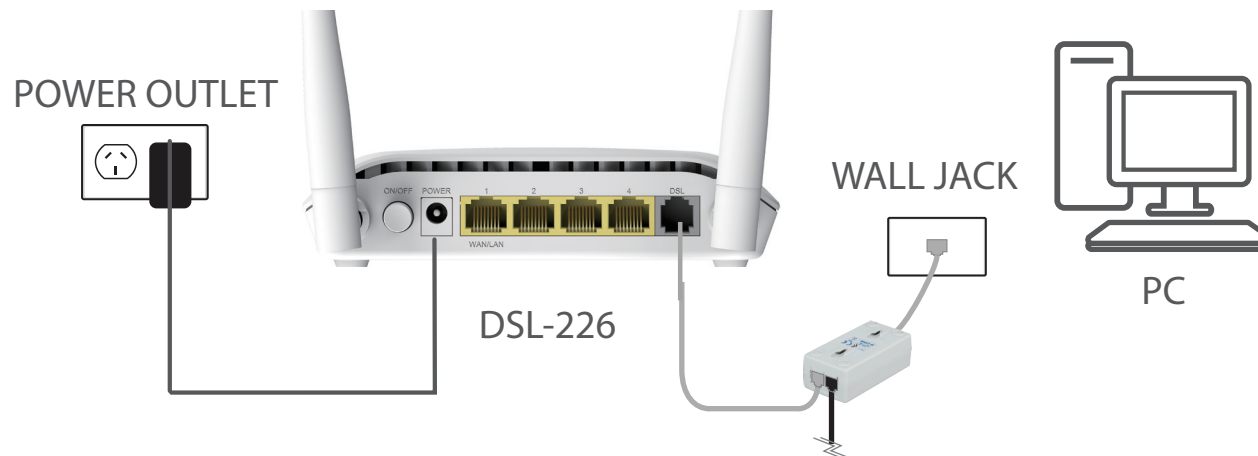
- 2-2** Use the **DSL-226 as a router only**. Plug one end of the supplied Ethernet cable into the WAN port on the back of the router and the other end to your existing cable/UFB/NBN™ connection box or modem. Then power on the connection box.



Note: The WAN/LAN port has to be configured to a physical WAN port. You also need to configure the WAN connection type to connect to the Internet properly (refer to **Internet - Ethernet on page 34**).

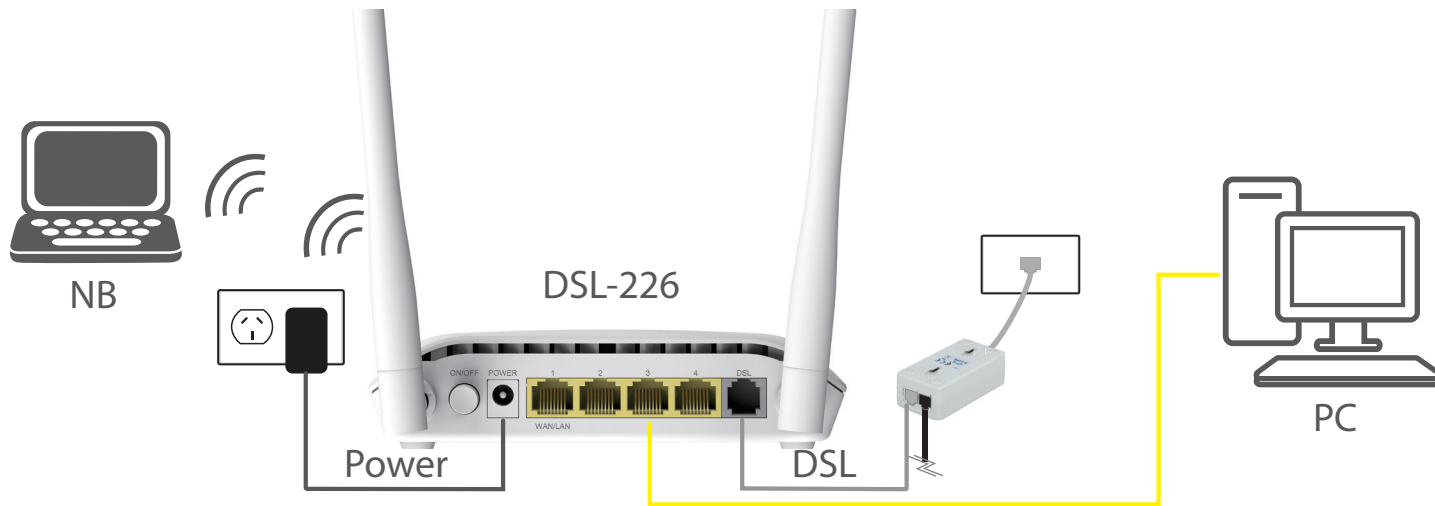
- 3** Connect the supplied power adapter to the router and a power outlet, and press the power button. The device LEDs will light up. Wait approximately three minutes before proceeding to the next step.

Caution: Use only the included power adapter with this product.



- 4 Plug one end of the supplied Ethernet cable into a yellow Ethernet port on the back of the router, and the other end into the Ethernet port on your computer.

If you are setting up the DSL-226 using a laptop or mobile device, connect to it using the Wi-Fi network name and password printed on the label attached to the bottom of your device.



Getting Started

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

- **D-Link Setup Wizard** - This wizard will launch when you log into the router for the first time. Refer to **Setup Wizard** on page **15**.
- **Manual Setup** - Log into the router and manually configure it. Refer to **Configuration** on page **21**.

Setup Wizard

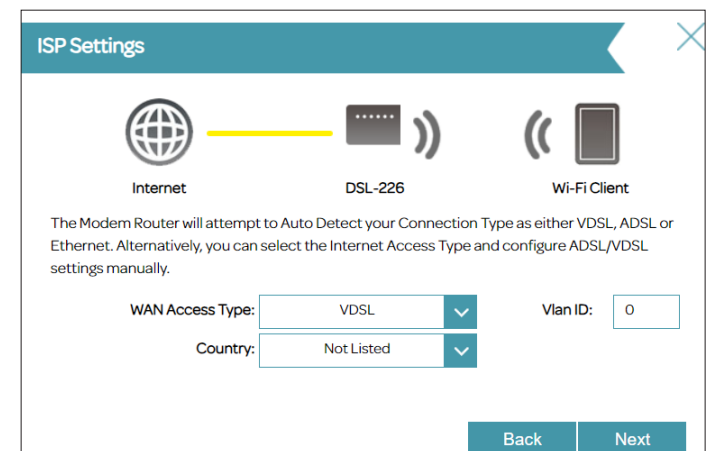
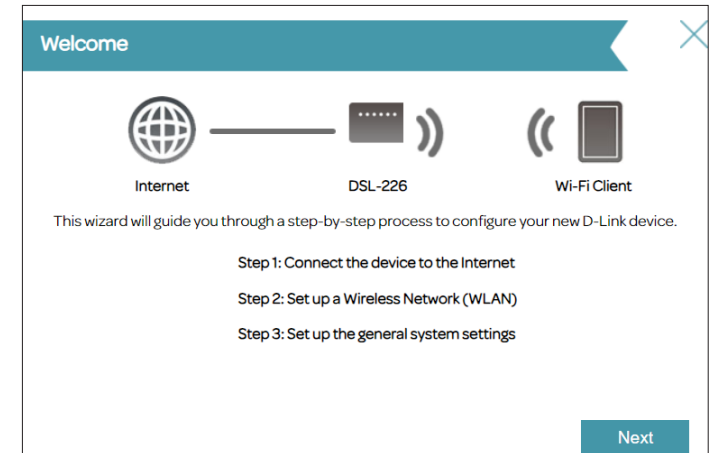
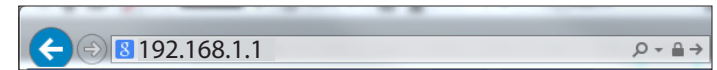
If this is your first time using the router, open your web browser and enter the IP address of the router (default: **http://192.168.1.1**). The default password for admin is printed on the bottom of the device.

The wizard is designed to guide you through a step-by-step process to configure your new D-Link router and connect to the Internet. Depending on your Internet service and network environment, ensure that your DSL port is connected to the wall jack or the Ethernet WAN port is connected to an active Internet connection.

Click **Next** to continue.

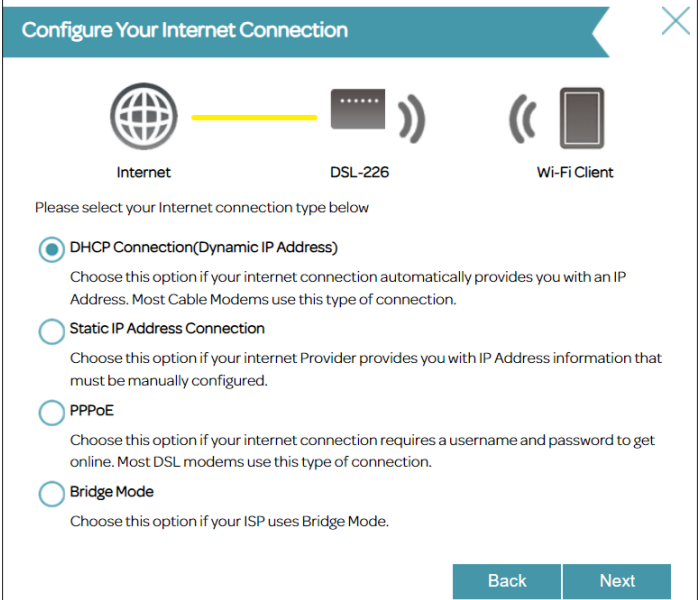
WAN Access Type would attempt to detect your connection type as VDSL, ADSL or Ethernet automatically. You may also select the WAN connection method and enter the related settings manually.

Click **Next** to continue.



Setup Wizard (continued)

If the router cannot determine your connection type, a list of connection types to choose from will be displayed. Select your Internet connection type (this information can be obtained from your Internet Service Provider) and click **Next** to continue.



Configure Your Internet Connection

Internet — DSL-226 — Wi-Fi Client

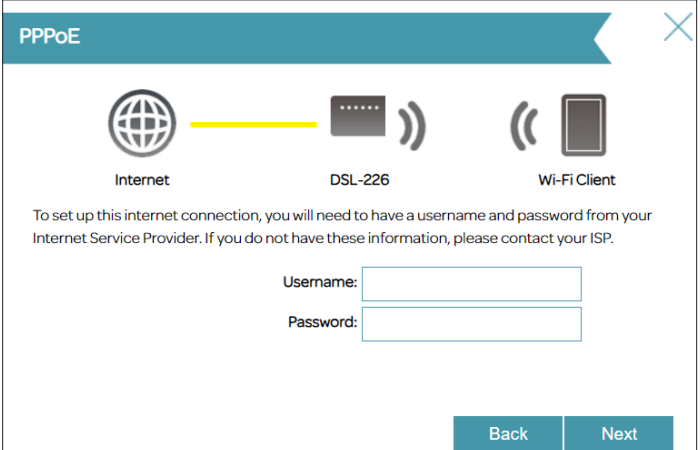
Please select your Internet connection type below

- DHCP Connection (Dynamic IP Address)**
Choose this option if your internet connection automatically provides you with an IP Address. Most Cable Modems use this type of connection.
- Static IP Address Connection**
Choose this option if your internet Provider provides you with IP Address information that must be manually configured.
- PPPoE**
Choose this option if your internet connection requires a username and password to get online. Most DSL modems use this type of connection.
- Bridge Mode**
Choose this option if your ISP uses Bridge Mode.

Back Next

If the router detected or you selected **PPPoE/PPPoA**, enter your PPPoE/PPPoA username and password and choose the **Connection Type** if asked, then click **Next** to continue.

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



PPPoE

Internet — DSL-226 — Wi-Fi Client

To set up this internet connection, you will need to have a username and password from your Internet Service Provider. If you do not have these information, please contact your ISP.

Username:

Password:

Back Next

Setup Wizard (continued)

If you selected **Static IP Address**, enter the IP address, subnet mask, gateway address, and DNS servers provided by your ISP, then choose the **Connection Type** if asked. Click **Next** to continue.

Static IP

Internet DSL-226 Wi-Fi Client

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

IP Address: 0.0.0.0

Subnet Mask: 255.255.255.0

Gateway Address: 0.0.0.0

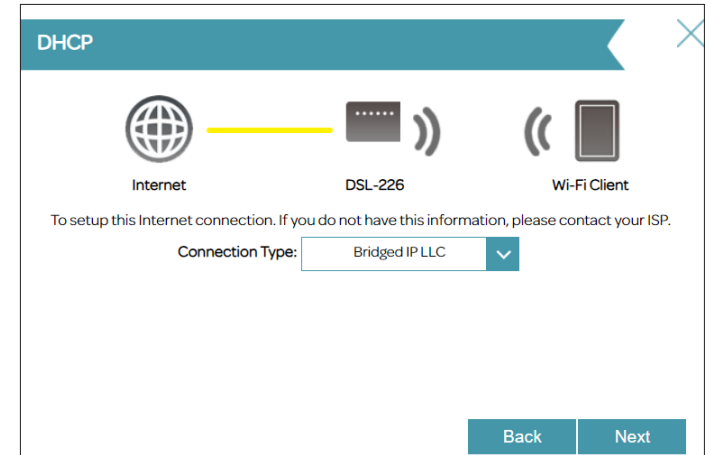
Primary DNS Server: 0.0.0.0

Secondary DNS Server: 0.0.0.0

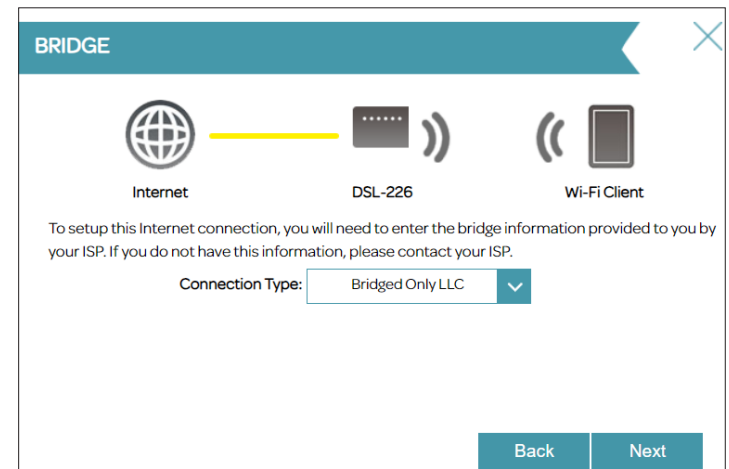
Back Next

Setup Wizard (continued)

If the router detected or you selected **Dynamic IP Address (DHCP)**, choose the **Connection Type** if asked. Click **Next** to continue.



If you selected **Bridge Mode**, choose the **Connection Type** if asked. Click **Next** to continue.



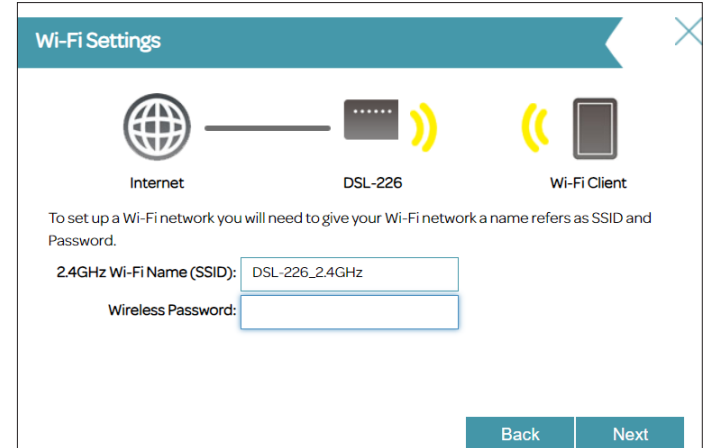
Setup Wizard (continued)

Create a Wi-Fi SSID and password for the 2.4 GHz wireless network. The SSIDs must be between 3 and 32 alphanumeric characters in length and can include space, hyphens, underscores, periods, and the @ symbol. The password must contain 8 to 63 alphanumeric characters including a mix of uppercase and lowercase letters, numbers, and special characters with the exception of the following characters: / ` & % " | .

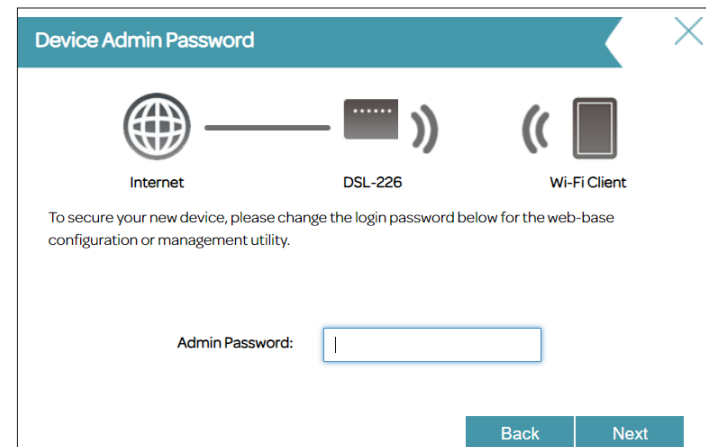
Your wireless clients must use the correct SSID and password in order to connect to your wireless network.

Click **Next** to continue.

To help protect your router, please enter a new password. You will be prompted for this password every time you want to use the router's web configuration utility. Click **Next** to continue. Passwords must contain 1 to 15 alphanumeric characters and must not contain special characters.



The screenshot shows the 'Wi-Fi Settings' screen. At the top, there is a teal header with the text 'Wi-Fi Settings' and a close button (X) on the right. Below the header, there are three icons: a globe labeled 'Internet', a DSL modem labeled 'DSL-226', and a smartphone labeled 'Wi-Fi Client'. Below these icons, there is a text prompt: 'To set up a Wi-Fi network you will need to give your Wi-Fi network a name refers as SSID and Password.' There are two input fields: '2.4GHz Wi-Fi Name (SSID):' with the value 'DSL-226_2.4GHz' and 'Wireless Password:' which is empty. At the bottom right, there are two buttons: 'Back' and 'Next'.

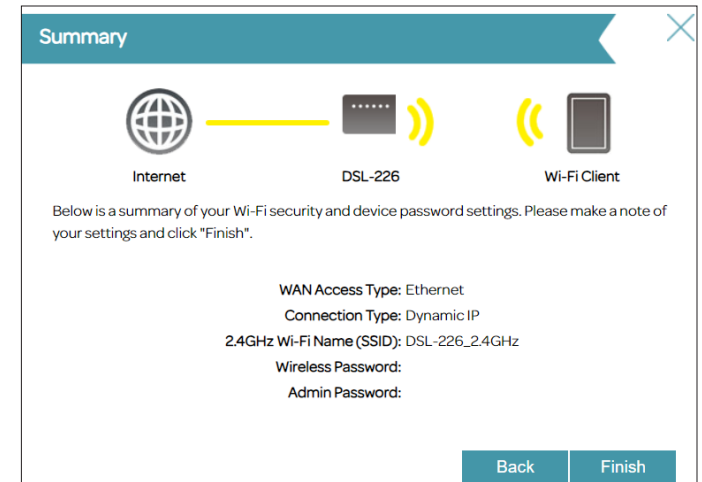


The screenshot shows the 'Device Admin Password' screen. At the top, there is a teal header with the text 'Device Admin Password' and a close button (X) on the right. Below the header, there are three icons: a globe labeled 'Internet', a DSL modem labeled 'DSL-226', and a smartphone labeled 'Wi-Fi Client'. Below these icons, there is a text prompt: 'To secure your new device, please change the login password below for the web-base configuration or management utility.' There is one input field labeled 'Admin Password:' which is empty. At the bottom right, there are two buttons: 'Back' and 'Next'.

Setup Wizard (continued)

The **Summary** window will display your settings. Click **Next** if you are satisfied, or click **Back** to make changes to your configurations. The wizard will close and your settings will be saved.

Congratulations, setup is complete. You can access the Setup Wizard again from the web configuration utility: go to **Settings > Wizard**.



Configuration

To access the configuration utility, open a web browser such as Google Chrome and enter: **http://192.168.1.1**

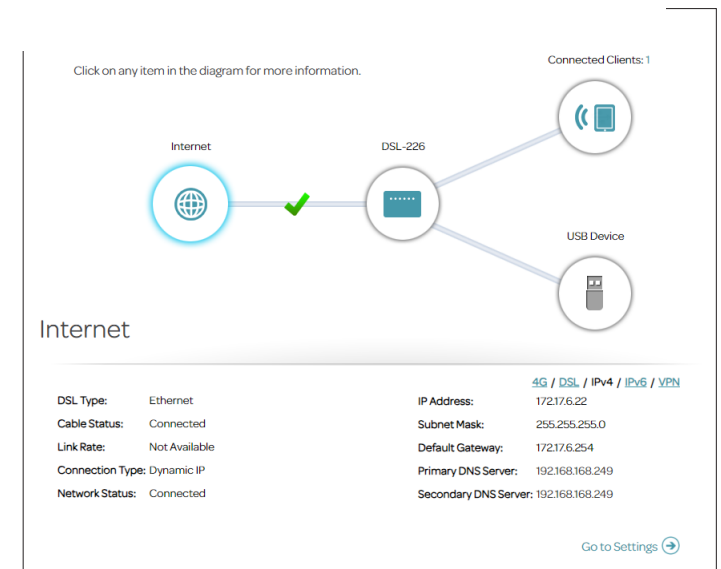
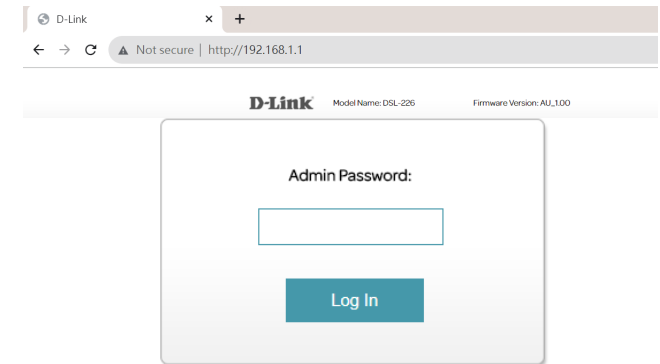
Input the default password as printed on the device label attached to the bottom of the device . If you previously followed the Setup Wizard (see page 15), please use the admin password you entered during the wizard. Then, click **Log In** to proceed.

Note: If you cannot remember your password and cannot log in, press the reset button (see page 6) to restore the router to its default settings. However, all your con **WI-FI PROTECTED SETUP**

PBC: [Start WPS](#)

The interactive diagram. There are four main sections: Internet, the DSL-226, Connected Clients, and USB Device. You can click each icon to display information about each section at the bottom of the screen. The menu bar at the top of the page will allow you to quickly navigate to the **Settings**, **Features**, and **Management** functions. You may quickly jump back Home at any time.

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



Internet

To bring up more details about your Internet connection, click on the **Internet** icon. The Internet Connection status being displayed will reflect the status of the currently selected WAN configuration: DSL, IPv4, IPv6, VPN, or 4G.

If your Internet is disconnected, indicated by a red X, you can launch the Setup Wizard to correct the issue by clicking **Wizard** from the **Settings** menu at the top of the page.

To reconfigure the Internet settings, refer to **Internet** on page **30**.

Internet Connected

Click on any item in the diagram for more information.

Connected Clients: 1

Internet

DSL-226

USB Device

Internet

DSL Type:	Ethernet	IP Address:	4G / DSL / IPv4 / IPv6 / VPN 172.176.58
Cable Status:	Connected	Subnet Mask:	255.255.255.0
Link Rate:	Not Available	Default Gateway:	172.176.254
Connection Type:	Dynamic IP	Primary DNS Server:	192.168.168.249
Network Status:	Connected	Secondary DNS Server:	192.168.168.249

[Go to Settings](#)

IPv4/IPv6

Click the **IPv4/IPv6** button to see the IPv4/IPv6 information for the DSL or WAN interface.

		4G / DSL / IPv4 / IPv6 / VPN
Internet Type:	VDSL	MAC Address: 5C:C7:D7:0F:C3:34
Cable Status:	Connected	IP Address: 172.17.5.34
Link Rate:	38136/4000 kbit/s	Subnet Mask: 255.255.255.0
Connection Type:	DHCP	Default Gateway: 172.17.5.254
Network Status:	Connected	Primary DNS Server: 192.168.168.249
		Secondary DNS Server: 192.168.168.250
		Go to Settings →

IPv4/IPv6

Internet Type: Displays the current connection type: Ethernet, ADSL or VDSL.

Cable Status: Displays the current cable connection status.

Link Rate: Displays the Internet connection speed.

Connection Type: Displays the network protocol used to obtain an IP address.

Network Status: Displays the current network connection status.

IP Address: Displays the current WAN IPv4 or IPv6 address.

Subnet Mask: Displays the current subnet mask of the IP address.

Default Gateway: Displays the current IPv4/IPv6 default gateway.

Prefix: Prefix identifies the subnet of a network in IPv6 addressing scheme.

Primary DNS Server: Displays the current primary DNS server.

Secondary DNS Server: Displays the current secondary DNS server.

Click **Go to Settings** below to go to the Internet configuration page.

DSL

Click the **DSL** button to see the DSL port connection information. The DSL tab displays information regarding the DSL data connection.

DSL

Line State: Displays the current status of the data link connection to your ISP.

Modulation: Displays the current DSL standard in use.

Annex Mode: Displays the current Annex mode in use.

DSL (Sync) Uptime: Displays time duration of the DSL connection.

SNR Margin: Displays the Signal-to-Noise Ratio margin, which measures the connection quality by measuring the ratio of the signal power and the noise power.

Line Attenuation: Displays the current signal attenuation, which measures how much the signal's strength has been degraded.

Data Rate: Displays the currently negotiated connection speed.

Output Power: Displays the output power of the DSL modem.

FEC, CRC: These error correction counts are used for diagnostic purposes. If you are having trouble with the connection to your ISP, these values may provide useful information for technicians.

Internet		4G / DSL / IPv4 / IPv6 / VPN	
Line State:	Up	UpLink / DownLink	
Modulation:	ITU G.993.2(VDSL2)	SNR Margin:	7.5 / 15.7
Annex Mode:	Annex_A	Line Attenuation:	0.0 / 0.1
DSL (Sync) Uptime:	117:53	Output Power:	6.4 / 13.8
		Data Rate:	100014 / 127997
		FEC:	0/5
		CRC:	36/0

VPN

The VPN status displays the tunnel status of the VPN connection.

VPN

VPN Type: Displays the protocol used for VPN.

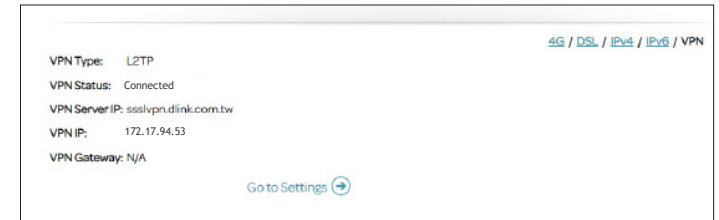
VPN Status: Displays the connection status.

VPN Server IP: Displays the IP address of the VPN server.

VPN IP: Displays the IP address used for VPN connection.

VPN Gateway: Displays the IP address used for VPN gateway.

Click **Go to Settings** below to go to the VPN configuration page.



4G

Click the **4G** button to see the 4G mobile information for 4G LTE USB adapter.

4G

Status: Displays the connection status.

IP Address: Displays the current WAN IP address.

Subnet Mask: Displays the current subnet mask of the IP address.

Default Gateway: Displays the current default gateway for the 4G connection.

Primary DNS Server: Displays the current primary DNS server.

Secondary DNS Server: Displays the current secondary DNS server.

Click **Go to Settings** below to go to the Internet configuration page.

4G / DSL / IPv4 / IPv6 / VPN	
Status:	Connected
IP Address:	61.17.5.34
Subnet Mask:	255.255.255.0
Default Gateway:	61.17.5.254
Primary DNS Server:	61.68.168.249
Secondary DNS Server:	Not Available

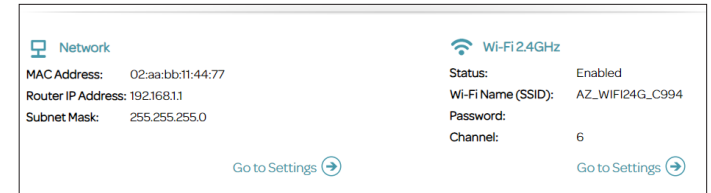
DSL-226

Click on the **DSL-226** icon to view details about the router and its wireless settings.

Here you can see the router's current wireless networks settings such as SSID and password, as well as the local area network MAC and IPv4 addresses.

To reconfigure the network settings, click **Go to Settings** at the lower right. You can also click **Settings > Network** at the top to access the configuration page. Refer to **Network** on page **54** for more information.

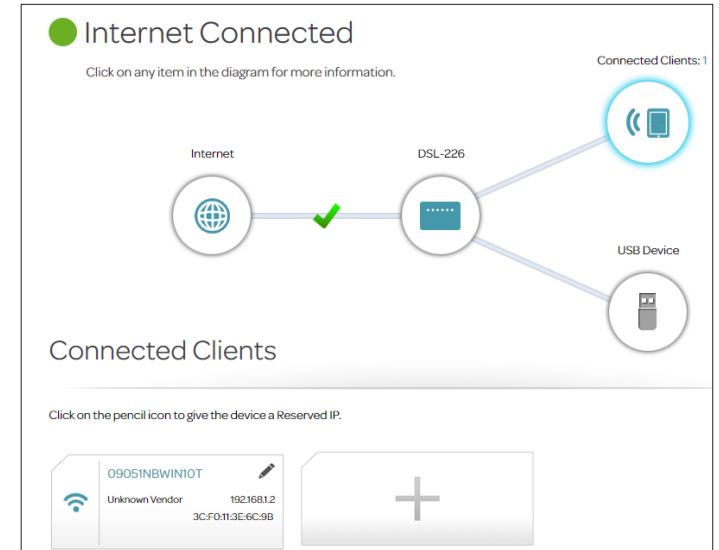
To reconfigure the wireless settings, click **Go to Settings** at the lower right. You can also click **Settings > Wireless** at the top to access the configuration page. Refer to **Wireless** on page **48** for more information.



Connected Clients

Click on the **Connected Clients** icon to view details about the clients currently connected to the router and their IP and MAC addresses.

To edit a client's settings, click the Edit icon of the client you want to edit.



Edit Rule

Name: Enter a custom name for this client.

Vendor: Displays the vendor of the client network adapter.

MAC Address: Displays the MAC address of the device.

IP Address: Displays the IP address for this client. You can reserve an IP address for this client by enabling the below Reserve IP.

Reserve IP: Enable this option to reserve this IP address for this client. Go to **Settings > Network > DHCP Reserve** to obtain more information on DHCP reservation.

Click **Save** when you are done.

Edit Rule ✕

Name:

Vendor: Unknown Vendor

MAC Address: 3C:F0:11:3E:6C:9B

IP Address (Reserved):

Reserve IP:

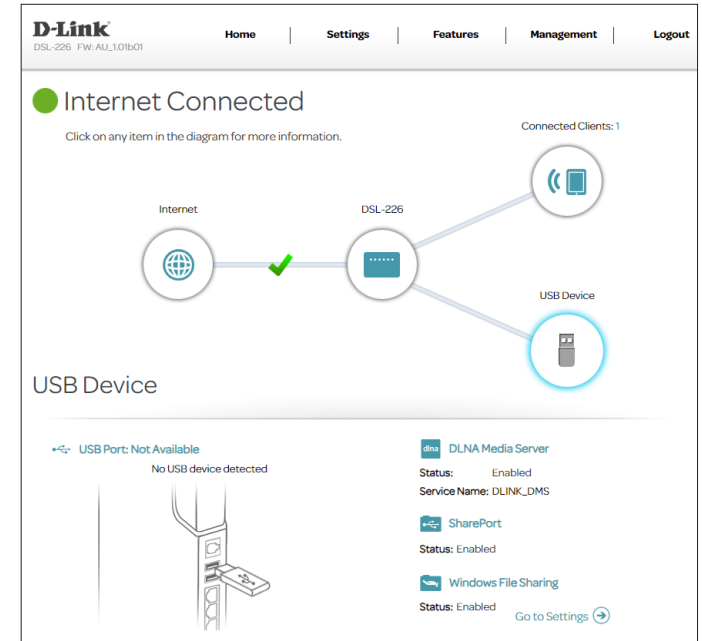
USB Device

Click on the **USB Device** icon to view details about the currently connected USB device as well as the SharePort and Windows File Sharing settings.

If you have a USB device connected, you can see its name and how much free space it has.

To configure your USB settings, click **Go to Settings** or click **Settings > USB** to obtain more information on USB configuration.

For information on how to access your USB drive from a Windows-based PC refer to **Connect and Share a USB Storage Device** on page **84**.



Settings Wizard

To access the Setup Wizard page, go to **Settings > Wizard**. This is the same wizard that appears when you start the router for the first time. Refer to **Setup Wizard** on page **15** for more information.

Internet

The following pages will describe how to connect your DSL-226 to the Internet. To access this page, go to **Settings > Internet** at the top of the page. The DSL-226 supports multiple WAN connection types. We recommend that you set up Internet WAN connections one at a time, **save** the configuration, and confirm the connection works before returning to this section to add additional WAN connections.

Different WAN access types are described in the following sections.

WAN CONNECTION TYPE

Configure your WAN Connection: Select the WAN interface to configure. The options are **ADSL, VDSL** and **Ethernet**.

Select a WAN Connection and refer to its configuration page for setup information.

For ADSL, refer to **Internet - ADSL** on page **31**.

For VDSL, refer to **Internet - VDSL** on page **33**.

For Ethernet, refer to **Internet - Ethernet** on page **34**.

D-Link
DSL-226 FW:AU_1.01b01

Home | Settings | Features | Management | Logout

Internet Connected
Click on any item in the diagram for more information.

Connected Clients: 1

Internet — DSL-226 — Connected Clients: 1
USB Device

Internet

4G / DSL / IPv4 / IPv6 / VPN

DSL Type:	Ethernet	IP Address:	172.17.6.22
Cable Status:	Connected	Subnet Mask:	255.255.255.0
Link Rate:	Not Available	Default Gateway:	172.17.6.254
Connection Type:	Dynamic IP	Primary DNS Server:	192.168.168.249
Network Status:	Connected	Secondary DNS Server:	192.168.168.249

Go to Settings →

Internet - ADSL

ADSL is one of the first home broadband technologies introduced. ADSL uses the DSL port on your DSL-226 to connect to the Internet. In order for your DSL-226 to use ADSL, you must configure the **WAN Connection Type** and related WAN settings.

WAN Connection Type

Configure your WAN connection: Select **ADSL** to configure ADSL connection settings.

ADSL VC Settings

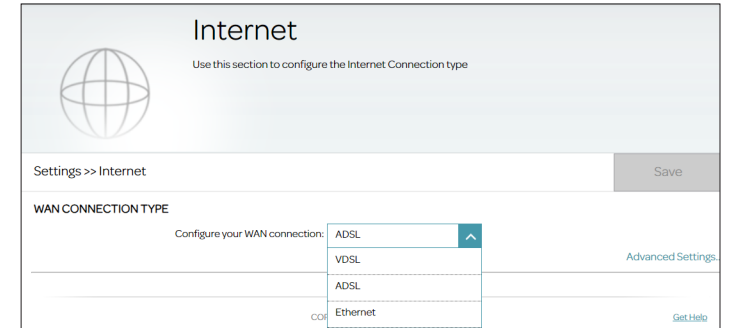
Interface: Select a configuration interface for this virtual circuit. The system supports up to 8 PVCs.

Enable Virtual Circuit: Enable this option to configure Virtual Circuit information.

VPI: Enter the Virtual Path Indicator (0 - 255). It is used to identify the path for packet routing.

VCI: Enter the Virtual Channel Indicator (32 - 65535). It is used to define the channel for packets transmission.

Service Category: Select the service category which defines the transmission parameters and performance: **UBR**, **CBR**, **NRT-VBR**, or **RT-VBR**.



Internet - ADSL (continued)

If you selected **CBR**, **NRT-VBR**, or **RT-VBR**, configure the following additional options:

Peak Cell Rate (PCR): Enter the Peak Cell Rate in cells per second (0-5500).

If you selected **NRT-VBR** or **RT-VBR**, the additional following options are available:

Sustainable Cell Rate (SCR): Enter the Sustainable Cell Rate in cells per second (0~5500).

Maximum Burst Size (MBS): Enter the Maximum Burst Size in MB per second (0~5500).

VLAN Settings

Enable Vlan ID Enable or disable VLAN settings.

Vlan ID Enter the VLAN ID. Enter a value from 1 - 4094.

To set your IPv4/IPv6 connection parameters of WAN connection, refer to **Connection Types** on page **35**.

The screenshot shows the 'Internet' configuration page. At the top, there is a globe icon and the title 'Internet'. Below the title, it says 'Use this section to configure the Internet Connection type'. The page is divided into several sections:

- Settings >> Internet**: A breadcrumb trail with a 'Save' button on the right.
- WAN CONNECTION TYPE**: A dropdown menu set to 'ADSL'. A 'Configure your WAN connection' link is visible.
- ADSL VC Setting**:
 - Interface: PVC1
 - Enable Virtual Circuit: Enable
 - VPI: 8
 - VCI: 35
 - Service Category: UBR
 - Enable Vlan ID: Disable
 - Vlan ID: (empty text box)
- IPv4 Settings**:
 - Connection: Dynamic IP Address
 - Protocol: IPv4
 - Connection Type: Bridged IP LLC

There are 'Advanced Settings...' links in the bottom right of the WAN and IPv4 sections.

Internet - VDSL

VDSL is one of the latest and fastest home broadband technologies. VDSL uses the DSL port on your DSL-226 to connect to the Internet. In order for your DSL-226 to use VDSL, you must configure the **WAN Connection Type** and related WAN settings.

Configure your WAN connection: Select **VDSL** to configure VDSL connection settings.

If you click on **Advanced Settings**, the following **WAN Settings** are available:

VDSL VC Settings

Service Number: Select a service number for setting VDSL virtual circuit. The system supports up to 8 VCs.

Enable Virtual Circuit: Enable or disable virtual circuit configuration.

VLAN Settings

Enable VLAN ID: Enable or disable VLAN settings.

VLAN ID: Enter the VLAN ID. Enter a value from 1 - 4094.

To set your IPv4/IPv6 connection parameters of WAN connection, refer to **Connection Types** on page **35**.

The screenshot displays the 'Internet' configuration interface. At the top, there is a globe icon and the title 'Internet'. Below the title, a subtitle reads 'Use this section to configure the Internet Connection type'. A 'Settings >> Internet' breadcrumb is on the left, and a 'Save' button is on the right. The main configuration area is divided into sections: 'WAN CONNECTION TYPE' with a dropdown set to 'VDSL'; 'VDSL VC Setting' with 'Service Number' set to '1', 'Enable Virtual Circuit' as a toggle set to 'Enable', 'Enable VLAN ID' as a toggle set to 'Disable', and 'VLAN ID' set to '0'; and 'IPv4 Settings' with 'Connection' set to 'Dynamic IP Address', 'Protocol' set to 'IPv4', 'MTU' set to '1492', 'Usage' set to 'Default Route', 'NAT Enable' as a toggle set to 'Enable', 'Enable PPPoE Passthrough' as a toggle set to 'Disable', and 'G.Vector' as an unchecked checkbox. 'Advanced Settings...' links are present at the end of the VDSL VC and IPv4 sections.

Internet - Ethernet

Your DSL-226 is equipped with a multi-purpose Megabit Ethernet LAN/WAN port which can be used to connect to the Internet. This port can also be used to connect to other Ethernet based networks. In order for your DSL-226 to use Ethernet, you must configure the WAN Connection Type and related WAN settings.

Configure your WAN connection: Select **Ethernet** to configure Ethernet connection settings. To use the LAN/WAN port for WAN connection, please enable the **LAN to WAN Setting** control to designate the LAN/WAN port on the back of the device as a physical WAN port (go to **Settings > Network > Advanced Settings**). The default is disabled (i.e. a LAN port).

VLAN Settings

Enable Vlan ID: Enable or disable VLAN settings.

Vlan ID: Enter the VLAN ID. Enter a value from 1 - 4094.

IPv4 Settings

Connection: Select the connection method for your Internet and refer to the respective configuration page for setup information.

For Dynamic IP (DHCP) Address, refer to **Connection Type: Dynamic IP (DHCP) on page 35**.

For Static IP Address, refer to **Connection Type: Static IP on page 37**.

For PPPoE, refer to **Connection Type: PPPoE on page 39**.

For PPPoA, refer to **Connection Type: PPPoA on page 41**.

For Bridge Mode, refer to **Connection Type: Bridge Mode on page 43**.

The screenshot shows the 'Internet' configuration page. At the top, there's a header 'Internet' with a globe icon and a sub-header 'Use this section to configure the Internet Connection type'. Below this is a breadcrumb 'Settings >> Internet' and a 'Save' button. The main content is divided into three sections: 'WAN CONNECTION TYPE' with a dropdown set to 'Ethernet' and an 'Advanced Settings...' link; 'VLAN Settings' with 'Enable Vlan ID' set to 'Disable' and 'Vlan ID' set to '0'; and 'IPv4 Settings' with 'Connection' set to 'Dynamic IP Address', 'Protocol' set to 'IPv4', and an 'Advanced Settings...' link. At the bottom, there are fields for 'MTU' (1492), 'Usage' (Default Route), 'NAT Enable' (checked), and 'Enable PPPoE Passthrough' (Disable).

Connection Types

Connection Type: Dynamic IP (DHCP)

Select **Dynamic IP Address (DHCP)** to obtain an IP address automatically from your ISP. Select this option if your ISP does not provide you with a specific IP address.

IPv4 Settings

Connection: Select **Dynamic IP Address (DHCP)**.

Protocol: Select **IPv4**, **IPv6** or **IPv4/IPv6** for both IPv4 and IPv6 addressing mechanism. If you choose IPv6, refer to the below IPv6 Settings.

Connection Type: Select **Bridged IP LLC**, **Bridged IP VC-Mux**, **Routed IP LLC**, or **Routed IP VC-Mux** as the encapsulation method. This is only available for ADSL.

Advanced Settings

MTU: Maximum Transmission Unit (576-1516) - you may need to change the MTU for optimal performance with your ISP. The default is 1492.

Usage: Select None or Default Route to use this WAN connection type as the default route.

NAT Enable: Network address translation (NAT) translates private IP addresses to public IP addresses prior to allowing private IP networks to connect to the public network.

Enable PPPoE Passthrough Enable or disable PPPoE traffic to pass through this VC configuration. It allows hosts behind the router to establish a PPPoE connection to an external server.

IPv4 Settings

Connection: Dynamic IP Address

Protocol: IPv4

Advanced Settings...

MTU: 1492

Usage: Default Route

NAT Enable: Enable

Enable PPPoE Passthrough: Disable

G.Vector:

G.Vector This option raises VDSL2 connection's data rate and cover range by eliminating cross-talk in copper infrastructure. This is only available for VDSL.

IPv6 Settings

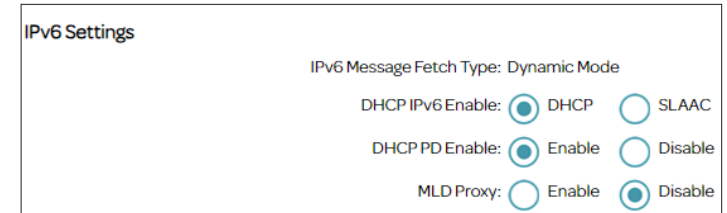
IPv6 Message Fetch Type: This displays the IP assignment method.

DHCP IPv6 Enable: Select the IPv6 auto-configuration type: **SLAAC** (IPv6 StateLess Address AutoConfiguration) or **DHCP** (Dynamic Host Configuration Protocol).

DHCP PD Enable: Enable or disable prefix delegation.

MLD Proxy: Multicast Listener Discovery (MLD) can be used to forward IPv6 multicast traffic between another router and the hosts behind this router.

Click **Save** when you are done.



The screenshot shows the 'IPv6 Settings' configuration page. It includes the following options:

- IPv6 Message Fetch Type: Dynamic Mode
- DHCP IPv6 Enable: DHCP SLAAC
- DHCP PD Enable: Enable Disable
- MLD Proxy: Enable Disable

Connection Type: Static IP

Select **Static IP Address** if your ISP provides you with a specific IP address.

IPv4 Settings

Connection: Select **Static IP Address**.

Protocol Select **IPv4**, **IPv6** or **IPv4/IPv6** for both IPv4 and IPv6 addressing mechanism. If you choose IPv6, refer to the below IPv6 Settings.

Connection Type: Select **Bridged IP LLC**, **Routed IP LLC**, **Routed IP VC-Mux** or **Bridged IP VC-Mux** as the encapsulation method. This is only available for ADSL.

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

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

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

Primary DNS Server Enter the primary DNS server IP address assigned by your ISP. This address is usually obtained automatically from your ISP.

Secondary DNS Server Enter the secondary DNS server IP address assigned by your ISP. This address is usually obtained automatically from your ISP.

Advanced Settings

MTU: Maximum Transmission Unit (576-1516) - you may need to change the MTU for optimal performance with your ISP.

Usage: Select None or Default Route to use this WAN connection type as the default route.

NAT Enable: Network address translation (NAT) translates private IP addresses to public IP addresses prior to allowing private IP networks to connect to the public network.

Enable PPPoE Passthrough Enable or disable PPPoE traffic to pass through this VC configuration. It allows hosts behind the router to establish a PPPoE connection to an external server.

IPv6 Settings

IPv6 Message Fetch Type: This displays the IP assignment method.

IPv6 Address Enter an IPv6 address in this format: x:x:x:x:x:x/y (where each x represents a hexadecimal digit, y is an integer from 1 to 128 as the prefix length), for example, 2001:b011:2000:0012::1/64.

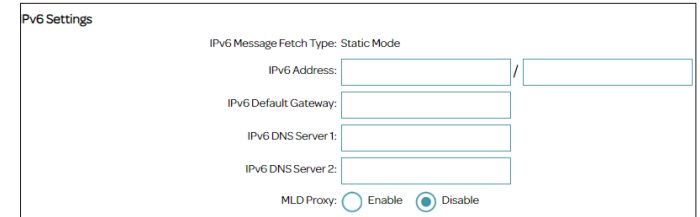
IPv6 Default Gateway: Enter the IP address of the default gateway.

IPv6 DNS Server 1: Enter the DNS server address.

IPv6 DNS Server 2: Enter the secondary DNS server address as a backup.

MLD Proxy: Multicast Listener Discovery (MLD) can be used to forward IPv6 multicast traffic between another router and the hosts behind this router.

Click **Save** when you are done.



Pv6 Settings

IPv6 Message Fetch Type: Static Mode

IPv6 Address: /

IPv6 Default Gateway:

IPv6 DNS Server 1:

IPv6 DNS Server 2:

MLD Proxy: Enable Disable

Connection Type: PPPoE

Select **PPPoE** if your ISP provides and requires you to enter a PPPoE username and password in order to connect to the Internet.

WAN Settings

Connection: Select **PPPoE**.

Protocol Select **IPv4**, **IPv6** or **IPv4/IPv6** for both IPv4 and IPv6 addressing mechanism. If you choose IPv6, refer to the below IPv6 Settings.

Username: Enter the username provided by your ISP.

Password/Confirm Password: Enter the password provided by your ISP. Then enter it again to confirm your entry.

Connection Type Select either PPPoE LLC or PPPoE VC-Mux as the encapsulation type for the data. This option is only available for ADSL WAN Connection Type.

Advanced Settings

Service Name Enter the optional PPPoE service name.

AC name Enter the optional remote PPPoE Server name.

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP. The default is 1492.

Usage: Select None or Default Route to use this WAN connection type as the default route.

The screenshot shows the 'IPv4 Settings' configuration interface. The top section contains basic connection parameters: 'Connection' is set to 'PPPoE', 'Protocol' is 'IPv4/IPv6', 'Username' is 'username', 'Password' and 'Confirm Password' are masked with dots, and 'Connection Type' is 'PPPoE LLC'. A link for 'Advanced Settings...' is visible on the right. The bottom section contains advanced options: 'Service Name' and 'AC name' are optional text fields; 'MTU' is set to 1492; 'Usage' is set to 'Default Route'; 'NAT Enable' is a toggle switch currently set to 'Enable'; 'Enable PPPoE Passthrough' is a toggle switch currently set to 'Disable'; 'Authentication Protocol' is set to 'Auto'; 'Connect mode select' is set to 'Always On'; and 'Maximum Idle Time' is set to 30 minutes.

NAT Enable: Network address translation (NAT) translates private IP addresses to public IP addresses before allowing private IP networks to connect to the public network.

Authentication Protocol: Select the authentication protocol your ISP uses. The options are **Auto**, **PAP**, or **CHAP**.

Enable PPPoE Passthrough: Enable or disable PPPoE traffic to pass through this configuration. It allows hosts behind the router to establish a PPPoE connection to an external server.

G.Vector This option raises VDSL2 connection's data rate and cover range by eliminating cross-talk in copper infrastructure. This is only available for VDSL.

Connect Mode Select: Set the connection to be **Always-on** or **Connect-On-Demand**.

If you selected **Connect-On-Demand**, the following option is available:

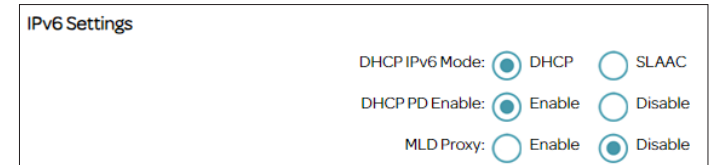
Maximum Idle Time: Enter the amount of time in minutes the router will maintain the Internet connection before disconnecting it if there is no activity.

IPv6 Settings

DHCP IPv6 Mode: Select the IPv6 auto-configuration type: **StateLess Address AutoConfiguration (SLAAC)** or **Dynamic Host Configuration Protocol (DHCP)**.

DHCP PD Enable: Enable or disable prefix delegation.

MLD Proxy: Multicast Listener Discovery (MLD) can be used to forward IPv6 multicast traffic between another router and the hosts behind this router.



Click **Save** when you are done.

Connection Type: PPPoA

Select **PPPoA** if your ISP provides and requires you to enter a PPPoA username and password in order to connect to the Internet. This setting is only available for ADSL WAN Connection Type.

WAN Settings

Connection: Select **PPPoA**.

Protocol Select **IPv4**, **IPv6** or **IPv4/IPv6** for both IPv4 and IPv6 addressing mechanism. If you choose IPv6, refer to the below IPv6 Settings.

Username: Enter the username provided by your ISP.

Password/Confirm Password: Enter the password provided by your ISP. Then enter it again to confirm your entry.

Connection Type Select either PPPoA LLC or PPPoA VC-Mux as the encapsulation type for the data.

Advanced Settings

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP. The default is 1492.

Usage: Select None or Default Route to use this WAN connection type as the default route.

NAT Enable: Network address translation (NAT) translates private IP addresses to public IP addresses before allowing private IP networks to connect to the public network.

Authentication Protocol: Select the authentication protocol your ISP uses. The options are **Auto**, **PAP**, or **CHAP**.

The screenshot shows the WAN Settings configuration interface. It is divided into two main sections: IPv4 Settings and IPv6 Settings. In the IPv4 Settings section, there are four rows of configuration options: 'Connection' is set to 'PPPoA', 'Protocol' is set to 'IPv4/IPv6', 'Username' is 'username', and 'Password' is masked with dots. Below these is a 'Confirm Password' field, also masked. The 'Connection Type' is set to 'PPPoA VC-Mux'. An 'Advanced Settings...' link is located at the bottom right of this section. The IPv6 Settings section contains three rows of radio button options: 'DHCP IPv6 Mode' with 'DHCP' selected, 'DHCP PD Enable' with 'Enable' selected, and 'MLD Proxy' with 'Disable' selected.

Connect Mode Set the connection to be **Always-on**, **Connect-On-Demand**, or
Select: **Manual**.

If you selected **Connect-On-Demand**, the following option is available:

Maximum Idle Time: Enter the amount of time in minutes the router will maintain the Internet connection before disconnecting it if there is no activity.

IPv6 Settings

DHCP IPv6 Mode: Select the IPv6 auto-configuration type: **StateLess Address AutoConfiguration (SLAAC)** or **Dynamic Host Configuration Protocol (DHCP)**.

MLD Proxy: Multicast Listener Discovery (MLD) can be used to forward IPv6 multicast traffic between another router and the hosts behind this router.

DHCP PD Enable or disable prefix delegation.
Enable

Click **Save** when you are done.

Connection Type: Bridge Mode

Select **Bridge Mode** to use the DSL-226 as a network bridge to extend an existing network.

IPv4 Settings

Connection: Select **Bridge Mode**.


Protocol Select **IPv4**, **IPv6** or **IPv4/IPv6** for both IPv4 and IPv6 addressing mechanism.

Connection Type: Select **Bridged Only LLC** or **Bridged Only VC-Mux** as the encapsulation method. This is only available for ADSL and Ethernet WAN Connection Type.

Enable Large Packet Passthrough: Enable this option to allow large packets (greater than 9000 bytes). This option is only available for VDSL and ADSL types.

G.Vector This option raises VDSL2 connection's data rate and cover range by eliminating cross-talk in copper infrastructure. This is only available for VDSL.

Click **Save** when you are done. Or click **Delete** to delete the configuration profile for the interface.



The screenshot shows a configuration window titled "IPv4 Settings". It contains three dropdown menus:

- Connection:** Set to "Bridge Mode".
- Protocol:** Set to "IPv6".
- Connection Type:** Set to "Bridged Only LLC".

VPN

A Virtual Private Network (VPN) is used to establish a virtual, encrypted connection over an existing network utilizing tunneling protocol such as PPTP or L2TP. To access this page, go to **Settings > VPN**.

Configure the following to set up a VPN connection to a VPN server:

VPN Settings

VPN: Select **Point-to-Point Tunneling Protocol (PPTP)** or **Layer 2 Tunneling Protocol (L2TP)**.

Server Address: Enter the PPTP or L2TP server address.

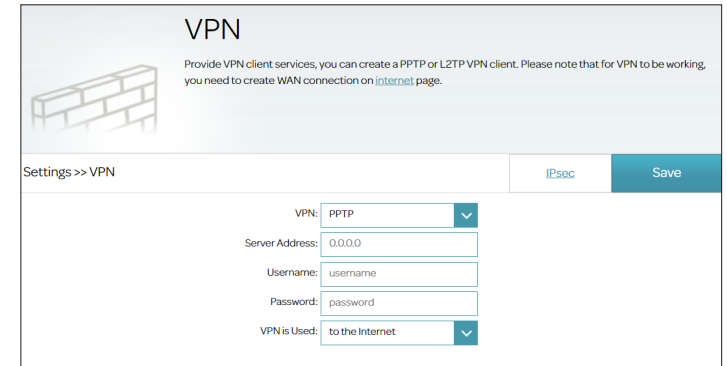
Username: Enter the username for connection authentication.

Password: Enter the password for connection authentication.

VPN is Used: Select **to the Internet** if the VPN is created for connecting to the Internet for all traffic through the WAN interface or **to the virtual private network** if the VPN is created to facilitate encapsulated and encrypted connections to another network across an existing Internet connection.

Note: It is required that you have configured WAN settings (go to **Settings > Internet**) before creating a VPN connection.

Click **Save** when you are done.



The screenshot shows the 'VPN' configuration page. At the top, there is a header with the title 'VPN' and a note: 'Provide VPN client services, you can create a PPTP or L2TP VPN client. Please note that for VPN to be working, you need to create WAN connection on [internet](#) page.' Below the header is a breadcrumb trail 'Settings >> VPN' and a 'Save' button. The main form contains the following fields:

- VPN:** A dropdown menu with 'PPTP' selected.
- Server Address:** A text input field containing '0.0.0.0'.
- Username:** A text input field containing 'username'.
- Password:** A text input field containing 'password'.
- VPN is Used:** A dropdown menu with 'to the Internet' selected.

IPSec

IPSec facilitates VPN communications with security capabilities. This page allows you to create an IPSec tunnel between two sites and set parameters for authentication method and encryption algorithm.

Click **Add Rule** and configure the following to set up an IPSec profile for VPN connections:

IPSec Settings

Connection Name: Name this IPSec connection.

Local Gateway IP: Enter the IP address of the local gateway for this tunnel.

Remote Gateway IP: Enter the IP address of the remote gateway for this tunnel.

Local Access Range: Select either **Single IP** or **Subnet**. Note that the local and remote access range should use different subnetworks.

Local IP Address: Enter the IP address of the local device that can use this tunnel.

IP Subnet Mask: Enter the subnet mask if you choose **Subnet** for Local Access Range.

Remote Access Range: Select either **Single IP** or **Subnet**. Note that the local and remote access range should use different subnetworks.

Remote IP Address: Enter the IP address of the remote device that can use this tunnel.

The screenshot shows the 'IPSEC' configuration page. At the top, there is a header with the title 'IPSEC' and a note: 'Provide IPSec client services, you can create an IPSec client. Please note that for the IPSec client to be working, you need to create WAN connection on internet page.' Below the header, there is a breadcrumb 'Settings >> IPSEC' and two buttons: 'Save' and 'BACK'. The main form contains the following fields:

- Connection Name:
- Local Gateway IP:
- Remote Gateway IP:
- Local Access Range: (peer Router's "Remote Access Range" must use the same setting)
- Local IP Address:
- IP Subnet Mask:
- Remote Access Range: (peer Router's "Local Access Range" must use the same setting)
- Remote IP Address:
- IP Subnet Mask:
- Pre-Shared Key:
- Perfect Forward Secrecy:
- Nat Traversal:

IP Subnet Mask: Enter the subnet mask if you choose **Subnet** for Remote Access Range.

Pre-Shared Key: Enter a pre-shared key to authenticate a remote peer. Up to 16 characters including symbols can be entered. Both local and remote device of the VPN tunnel must use the same pre-shared Key.

Perfect Forward Secrecy: Enable or disable Perfect Forward Secrecy. It uses public key cryptography to improve the security of IPSec data communication.

NAT Traversal: Enable or disable NAT traversal for the negotiation of an IPSec VPN connection. It allows IPSec VPN traffic to pass if NAT is used on the gateways.

Key Exchange Phase 1

Exchange Mode: Select **Main**, **Aggressive** or **Base**. The Main mode sends first two messages for negotiating the encryption and authentication method. In general, Aggressive mode is faster than the Main mode but offers less protection against authentication security. Unlike the Aggressive and Main Mode, the Base Mode can transmit the key exchange information and authentication data together.

Encryption Algorithm: Select encryption method as the algorithm for encrypting data packets. The options are **DES**, **3DES**, **AES-128**, **AES-192** or **AES-256**.

Authentication Algorithm: The authentication algorithm validates data packets. Select **MD5**, **SHA1**, or **SHA256**. Both local and remote device of the VPN tunnel must use the same authentication algorithm. Both MD5 and SHA are one-way hashing algorithm but produce different number of digest bit.

Diffie-Hellman Group: The Diffie-Hellman key exchange protocol offers different prime key lengths. Select **768**, **1024**, **1536**, **2048**, **3072**, or **4096 bit**.

The screenshot displays the configuration interface for Key Exchange Phase 1 and Phase 2. The interface is organized into two main sections, each with a title and several configuration options.

Key Exchange Phase 1:

- Exchange Mode:** Main
- Encryption Algorithm:** DES
- Authentication Algorithm:** MD5
- Diffie-Hellman Group:** 768bit
- Key Life Time:** 10800 (unit: Seconds)

Key Exchange Phase 2:

- Encryption Algorithm:** DES
- Authentication Algorithm:** MD5
- Diffie-Hellman Group:** 768bit
- Key Life Time:** 3600 (unit: Seconds)

Key Life Time: Enter the amount of time that a key is active in Phase 1. Then select the unit: **Seconds, Minutes** or **Hours**.

Key Exchange Phase 2

Encryption Algorithm: Select encryption method as the algorithm for encrypting data packets. The options are **DES, 3DES, AES-128, AES-192** or **AES-256**.

Authentication Algorithm: The authentication algorithm validates data packets. Select **MD5, SHA1**, or **SHA256**. Both local and remote device of the VPN tunnel must use the same authentication algorithm. Both MD5 and SHA1 are one-way hashing algorithm but they produce different length of digest bits.

Diffie-Hellman Group: The Diffie-Hellman key exchange protocol offers different prime key lengths. Select **768, 1024, 1536, 2048, 3072**, or **4096 bit**.

Key Life Time: Enter the amount of time that a key is active in Phase 2. Then select the unit: **Seconds, Minutes** or **Hours**.

Click **Save** when you are done. You can create up to 7 IPsec profiles.

Wireless

You can configure your wireless LAN (WLAN) on this page. To access this page, go to **Settings > Wireless**.

Status: Enable or disable the 2.4 GHz wireless network. The default is enabled.

Wi-Fi Name (SSID): Create a name for your wireless network.

Password: Create a password to use for wireless security. The password rule should conform with the below security selected. Refer to the following wireless security sections. The available security types are **None, WEP-64Bit, WEP-128Bit, WPA, WPA2, and WPA/WPA2.**

Show Password: Enable this option to display the entered password.

Wi-Fi Protected Setup

Start WPS: This triggers the WPS pairing process. The WPS LED on the front panel will start to flash. Refer to **WPS Button** on page **91** for more information about WPS.

Click **Save** when you are done. The following pages describe the **Advanced Settings** configuration options in detail.

The screenshot shows the 'Wireless' configuration page for a D-Link router. At the top, there is a warning message: 'Use this section to configure the wireless settings for your D-Link Router. Please note that any changes made in this section will need to be updated on your wireless device.' Below this, the page is divided into sections. The '2.4GHz' section is active, showing a 'Status' dropdown menu set to 'Enable', a 'Wi-Fi Name (SSID)' text field containing 'AZ_WIF24G_1C994K\$', a 'Password' text field with masked characters, and a 'Show Password' dropdown menu set to 'Disable'. There is a 'Save' button in the top right corner. Below the 2.4GHz section is the 'WI-FI PROTECTED SETUP' section, which includes a 'Start WPS' button.

Advanced Settings

Clicking **Advanced Settings** allows you to manually configure security, wireless radio operation, and schedule settings.

Security: Choose **None**, **WEP (WEP-128Bit, WEP-64Bit)**, **WPA (WPA2, WPA or WPA2/WPA)**. Select **None** for unsecured network if it is what you intend. The default is WPA2 with pre-shared key.

WPA

Wi-Fi Protected Access (WPA) offers stronger encryption algorithm than WEP (Wired Equivalent Privacy) with dynamic key change capability. WPA2 provides the latest and most robust encryption among these security methods and thus is recommended.

Security: **WPA2** (the default), **WPA** or mix of **WPA2/WPA**.

WPA Type

802.1x uses a RADIUS (Remote Authentication Dial-In User Service) server for user authentication. If you selected 802.1x, the following options are available:

Server IP Address: Enter the IP address of the RADIUS Server.

Port: Enter the port used by the RADIUS Server.

Secret: Enter the secret used by the RADIUS Server.

Cipher Type: Select either **AES**, **TKIP** or **Both (AES/TKIP)**. The options vary depending on the WPA type selected. **AES** is recommended as it is more advanced than TKIP.

The screenshot shows a configuration interface for WPA security. It includes the following fields and options:

- Security:** A dropdown menu set to "WPA2".
- WPA Type:** Two radio button options: "802.1x" (unselected) and "Pre-shared Key" (selected).
- Cipher Type:** A dropdown menu set to "AES".
- Group Key Interval:** A text input field containing "3600" with the unit "Seconds" to its right.

Advanced Settings (continued)

Group Key Interval: Enter the Group Key Interval (10 - 4194303) the timing for rekeying the group temporal key. The default is **3600** seconds.

If you selected **Pre-shared key**, an alphanumeric passphrase will be required, enter it in the password field above. Note the password must contain 8 to 63 characters and include a mix of uppercase and lowercase letters, numbers, and special characters except the following: / ` & % " |. The following options are also available:

Cipher Type: Select either **AES**, **TKIP** or **Both (AES/TKIP)**. The options vary depending on the WPA type selected. **AES** is recommended if other types are presented.

Group Key Interval: Enter the Group Key Interval (10 - 4194303) as the timing for rekeying the group temporal key. The default is **3600** seconds.

WEP

Wireless Equivalent Privacy (WEP) offer only basic encryption capability and is less secure than WPA. Thus, WPA is the preferred method.

Security: **WEP-64Bit:** Enter 5 alphanumeric characters.
WEP-128Bit: Enter 13 alphanumeric characters.

Note: WPS will be disabled when WEP is used.

Authentication Type

Select either **Shared** or **Open**. These two types differ in the authentication process before association with an access point.

Click **Save** when you are done. The following pages describe more configuration options in **Advanced Settings** in detail.

The image shows a configuration interface for WEP. It contains two dropdown menus. The first dropdown is labeled 'Security:' and is set to 'WEP-64Bit'. The second dropdown is labeled 'Auth. Type:' and is set to 'Open'. Both dropdowns have a downward-pointing arrow on the right side.

Advanced Settings (continued)

Advanced Settings

- Hide SSID:** The default setting is **Disabled**. Select **Enabled** if you do not want to broadcast the Wi-Fi name or SSID of your wireless network.
- 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. The default is enabled.
- Signal-Interval:** Set the rate at which your wireless network is advertised. The range is 20 -1000 and default is **100** milliseconds.
- DTIM:** Specify the Delivery Traffic Information Map (DTIM) message interval. Higher DTIM values can help conserve power at the cost of slight latency. The range is 1-255 and default is 1.
- Transmitting Power:** Select the desired wireless transmission power. The available options are **100%, 50%, 25%, or 12.5%**. The default is **100%**.
- Threshold for fragmentation:** The fragmentation threshold, which is specified in bytes, determines whether packets will be fragmented. Packets exceeding the 2346 byte threshold will be fragmented before transmission. The range is **256-2346** and **2346** is the default setting.
- 802.11 Mode:** Select the desired wireless networking standard(s) to use. The available options are **11B only, 11G only, Mixed 11G/B, 11N only, Mixed 11G/N,** and **Mixed 11N/G/B**.
- Channel Width:** Channel Width is available if you selected **11N, Mixed 11G/N,** or **Mixed 11N/G/B** for **802.11 Mode**. Select **20/40** if you are using both of 802.11g/b and 802.11n devices or select **20 MHz** if you want to disable 40 MHz bandwidth communication. The recommended setting is **20/40**.

Hide SSID: Disable

WMM: Enable

Wi-Fi Protected Enable: Enable

Wi-Fi Protected Status: Enabled/Configured

Signal-Interval: msec
Range: 20-1000, Standard: 100

DTIM:
Range: 1-255, Standard: 1

Transmitting Power: ▼

Threshold for fragmentation:
Range: 256-2346, Standard: 2346

802.11 Mode: ▼

Channel Width: ▼

20/40 MHz Co-Exist: Enable

Short Guard Interval: Disable

Channel: ▼

Preamble Type: Enable

Schedule: ▼

Advanced Settings (continued)

- 20/40 MHz Co-Exist:** Enable or disable the existence of both 20 MHz and 40 MHz channel width. Keep it enabled to achieve the maximum operability of wireless products using different standards in your environment. However, it might prevent your 802.11n devices from reaching the maximum performance.
- Short Guard Interval:** This option is available for 11N wireless standard. This increases data rate by lowering the guard interval to 400 ns. The default is enabled.
- Channel:** Select the desired channel for your wireless network to use. The default is **Auto** (recommended).
- Preamble Type:** This defines the length of the CRC block for communication between the wireless router and the devices. Ensure that all your wireless devices use the same type. Select **Enabled** to set it to short and **Disabled** to set it to long.
- Schedule:** Use the drop-down menu to select the time schedule for which the wireless network will be available. The schedule may be set to **Always**, or you can create your own schedules in the Schedule section. Refer to **Time & Schedule** on page **74** for more information.

WI-FI PROTECTED SETUP

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

- Start WPS:** Press this button to establish a connection with another WPS compatible device. Note that the WPS only works with WPA2 security method.

Click **Save** when you are done.



Guest Zone

The Guest Access feature creates a separate network from your local network. It allows guest devices to access the Internet but not the servers and resources in your local network. This prevents guest users exposure of your local network.

Status Enable or disable the guest zone. The status is disabled by default.

Wi-Fi Name (SSID) Create a name for your wireless network.

Password Create a password to use for wireless security. The password rule depends on the security type selected below.

Show Password Enable or disable the display of the password.

Security Choose **None**, **WEP (WEP-128Bit, WEP-64Bit)**, **WPA (WPA2, WPA or WPA2/WPA)**. Select **None** for unsecured network if it is what you intend. Refer to the above sections (**WEP** on page **50** and **WPA** on page **49**) for explanation of these security methods.

Schedule Use the drop-down menu to select the time schedule for which the wireless network will be available. The schedule may be set to **Always**, or you can create your own schedules in the Schedule section. Refer to **Time & Schedule** on page **74** for more information

Click **Save** when you are done.

Network

This section allows you to change the local network settings of the router and to configure the DHCP settings. Go to **Settings > Network** to access this page.

Router Settings

Router IP Address: Enter the IP address of the router to be identified in your local network. The default IP address is **192.168.1.1**.

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

Subnet Mask: Enter the subnet mask of this interface. The default subnet mask is **255.255.255.0**.

Enable Second IP: Enter another IP address of the router to be identified in another local subnetwork.

Second Subnet Mask: Enter the subnet mask of the second interface. The default subnet mask is **255.255.255.0**.

Click **Save** when you are done or click **Advanced Settings**.

Advanced Settings

DHCP Server Settings

Disable DHCP Server: Select this option to disable the DHCP server. No further configuration is available. If you choose to disable the router's DHCP server, there should be other DHCP server on your network or you must configure the LAN devices' IP addresses manually.

Network

These are the IP settings of the LAN interface for the Device. These settings may be referred to as Private settings. You may change the LAN IP address if needed.
The LAN IP address is private to your internal network and can not be seen on the Internet.
If you already have a DHCP server on your network or are using static IP addresses on all the devices on your network, click on Disable DHCP Server to disable this feature.

Settings >> Network Reserve IP Save

Router Settings

Router IP Address:

Subnet Mask:

[Advanced Settings...](#)

Network - Advanced Settings

Enable DHCP Server: Select this option to enable the DHCP server.

Enter the following settings to configure your DHCP server:

DHCP IP Address Range: Specify the start and end IP addresses for the range of addresses to be assigned by your router.

DHCP Lease Time: Select the DHCP lease time from the drop down menu: **1 Hour, 2 Hours, 3 Hours, 1 Day, 2 Days, 3 Days, or 1 Week.** The default is **1 Day.**

Primary DNS Server: The Domain Name System (DNS) translates domain or website names into Internet addresses or URLs. Enter the DNS server's IP address.

Secondary DNS Server: Enter the secondary DNS server's IP address.

Option60 Vendor ID: Enter Option 60 information here to be included in the DHCP request communication.

DHCP Relay: Select this option to enable DHCP Relay. Use this if you have a dedicated DHCP server on your network, then enter the server IP address.

Click **Save** when you are done.

LAN IPv6 Settings

IPv6 Global Address: Enter a valid IPv6 address with prefix length, for example, 2000:dc8:abcd:0015::0/64

Radvd Enable: Enable or disable the Router Advertisement Daemon (RADVD) for advertising the essential network configuration for the local network with other devices using IPv6 addressing scheme.

The screenshot shows the 'Network' configuration page. At the top, there's a 'Network' title and a brief explanation of LAN IP settings. Below that, there are two main sections: 'Router Settings' and 'DHCP server Settings'. In 'Router Settings', the 'Router IP Address' is set to 192.168.1.1 and the 'Subnet Mask' is 255.255.255.0. In 'DHCP server Settings', the 'Enable DHCP Server' option is selected. The 'DHCP IP Address Range' is set from 192.168.1.2 to 192.168.1.254. The 'DHCP Lease Time' is set to 1 Day. The 'DNS' and 'DNS2' fields are both set to 192.168.1.1, marked as optional. The 'Option60 Vendor ID' is set to MSFT.5.0. There are also buttons for 'Reserve IP' and 'Save' at the top right.

Radvd Mode: Select the mode for RADVD: Auto or Manual. If selecting Manual, enter the IPv6 prefix configuration manually.

RA Flags Set: Configure both ManagedAddr and OtherConfig. Set it to on so the router allows clients to obtain an IPv6 address automatically when a DHCPv6 service is available. **ManagedAddr** incorporates DHCPv6 address information while **OtherConfig** incorporates information other than DHCPv6 address.

DHCP6 Server: Enable or disable DHCPv6 service.

DHCPv6 Mode: Select the prefix assignment method: **Auto** or **Manual**.

If you selected **Manual** for **RADVD**, configure the following settings:

Prefix/Length: Enter the IPv6 prefix, for example, 3ffe:501:ffff:100::/IPv6 prefix length (16-64).

Prefix Preferred Lifetime: Enter the preferred lifetime of the prefix (300-4294967295 seconds).. The default is 3600.

Prefix Valid Lifetime: Enter the valid lifetime of the prefix (300-4294967295 seconds). The default is 7200.

If you selected **Manual for DHCPv6 Mode**, configure the following settings:

Prefix/Length: Enter the IPv6 prefix, for example, 3ffe:501:ffff:100::/IPv6 prefix length (16-64).

Prefix Preferred Lifetime: Enter the preferred lifetime of the prefix (300-4294967295 seconds).. The default is 3600.

Prefix Valid Lifetime: Enter the valid lifetime of the prefix (300-4294967295 seconds). The default is 7200.

The screenshot displays the 'LAN IPv6 Settings' configuration interface. It includes the following fields and their values:

- IPv6 Global Address: [Empty]
- Radvd Enable: Enable
- Radvd Mode: Auto Manual
- Prefix/Length: 3ffe:501:ffff:100:: / 64
- Preferred Lifetime: 590
- ValidLifetime: 591
- RA Flags Set: ManagedAddr: off OtherConfig: on
- DHCP6 Server: Enable
- DHCP6 Mode: Auto Manual
- Prefix/Length: [Empty] / [Empty]
- Preferred Lifetime: 3600
- ValidLifetime: 7200
- Primary DNS: fe80:1
- Secondary DNS: fe80:2

Primary DNS Server: Enter the DNS server's IP address.

Secondary DNS Server: Enter the secondary DNS server's IP address.

UPnP Settings 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) on the local network.

LAN to WAN Setting Enable the LAN to WAN Setting control to designate the LAN/WAN port on the back of the device as a physical WAN port. Keep the default Disable setting to designate this port as a LAN port.

DHCP Reserve

This section allows you to assign a static IP address to a specific computer on your LAN. Go to **Settings > Network** and click the **DHCP Reserve** tab to access this page.

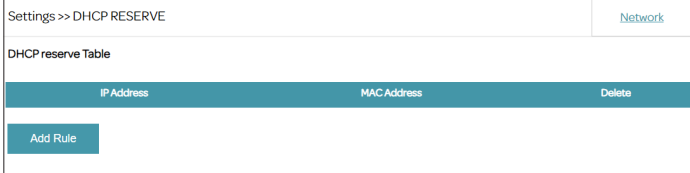
Click **Add Rule** to add a new entry to reserve an IP address to a client device:

IP Address: Enter an IPv4 address to be assigned.

MAC Address: Select a device from the available clients' MAC addresses.

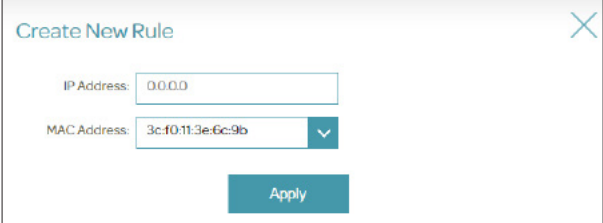
Click **Apply** when you are done to close the screen.

Click **Save** when you are done adding the rules.



IP Address	MAC Address	Delete
------------	-------------	--------

Add Rule



Create New Rule

IP Address: 0.0.0.0

MAC Address: 3c:f0:11:3e:6c:9b

Apply

USB

This page allows you to set up access to files on an external USB device plugged into the router. Then you can perform file sharing through local network. To access this page, go to **Settings > USB**.

DLNA Settings

DLNA: Enable or disable the DLNA media server functions, allowing connected DLNA clients access to media files over the network. The default is disabled.

Samba Setup

Samba: Enable or disable Windows File Sharing or Samba. Computers and devices which support Samba will be able to access the files on the USB device connected to this router. The default is disabled.

Work Group: Enter the Windows workgroup name.

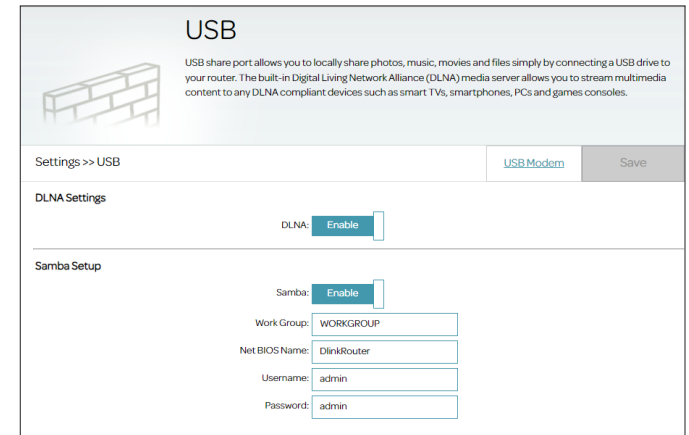
Net BIOS Name: Enter the name for this device as you wish it to appear on your network.

Username: Enter a username for authentication for access.

Password: Enter a password for authentication for access.

Click **Save** when you are done.

For information on how to access your USB drive from a Windows-based PC refer to **Connect and Share a USB Storage Device** on page **84**.



USB

USB share port allows you to locally share photos, music, movies and files simply by connecting a USB drive to your router. The built-in Digital Living Network Alliance (DLNA) media server allows you to stream multimedia content to any DLNA compliant devices such as smart TVs, smartphones, PCs and games consoles.

Settings >> USB [USB Modem](#) [Save](#)

DLNA Settings

DLNA: Enable

Samba Setup

Samba: Enable

Work Group:

Net BIOS Name:

Username:

Password:

USB Modem

The USB port can be inserted with a 3G/4G mobile broadband adapters to be a backup of your primary Internet connection. On this page, you can check and edit the router's configuration for the USB modem (if one is inserted). To access this page, go to **Settings > USB** and select the **USB Modem** tab.

4G Status

Status: Enable or disable the USB modem. If it is enabled, the router will use the USB modem to connect to the Internet instead of the DSL or Ethernet WAN port. The default is disabled.

4G Backup: Enable the USB modem to be a backup of the primary Internet connection. When the primary Internet connection fails, it will be active and resume the connection. The default is disabled.

Connection Settings

Select the connection method: **Always On**, **Connect On-Demand**, or **Connect Manually**.

If you selected Connect On-Demand, enter the following option:

Close if Idle for Minutes: Enter a maximum idle time in minutes to wait before closing the connection due to inactivity.

If you selected Connect Manually, enter the following option:

PPP Authentication: Select the authentication method for Point-to-Point Protocol (PPP) connections: PAP, Auto, or CHAP.

Default Route: Enable or disable default route established through your USB modem for Internet connection.

NAT: Enable or disable Network Address Translation (NAT).

TCP MTU: Enter the Maximum Transfer Unit (100-1492). The default is 0.

Click **Save** when you are done.

USB Modem
Enter the information provided by your Internet Service Provider (ISP).

Settings >> USB Modem [USB](#) [Save](#)

4G Status

Status: Enable Disable

4G Backup: Enable Disable

Connection Setting

Always On (Recommended)
 Connect On-Demand
 Connect Manually

Close if idle for minutes:

PPP Authentication:

Default Route: Enable Disable

NAT: Enable Disable

TCP MTU:

Features

Firewall

The router's firewall protects your network from malicious attacks over the Internet. To access this page, go to **Features > Firewall**. It is recommended to leave all values at their default **Enable** setting.

Firewall

Enable DOS and Portscan Protection: Denial of Service (DoS) protection prevents attacks such as **Ping of Death** and others as the following described.

SYN/TCP reset attack: TCP reset breaks the three-way TCP connection between two parties by sending a spoofed RST packet.

SYN/RST attack: SYN/RST attack sends continuous SYN packets to a targeted network device, causing the device to spawn a half-open connection by sending back a TCP SYN-ACK packet (Acknowledge) and waiting for a packet in response from the sender address (response to the ACK packet).

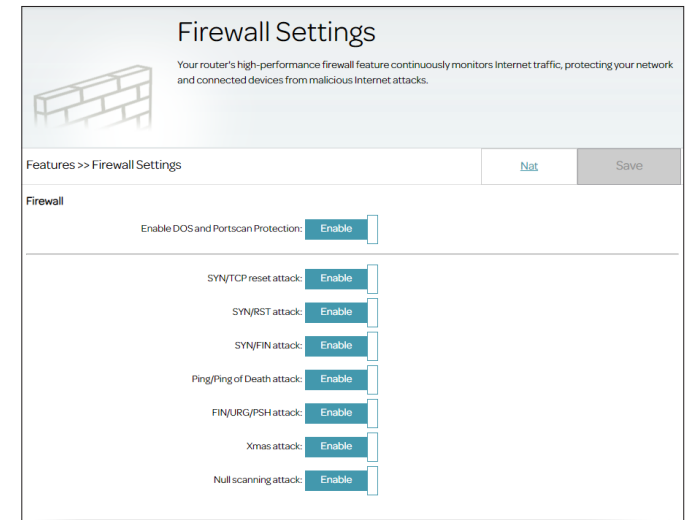
SYN/FIN attack: This type of Denial of Service attacks a targeted device by continuously sending illegitimate SYN-FIN packets.

Ping/Ping of Death attack: The Ping of Death attack aims to disrupt a targeted network device by sending abnormally large packets.

FIN/URG/PSH attack: A URG-ACK-PSH-FIN flood attack brings down a device by sending illegitimate URG-ACK-PSH-FIN packets.

Xmas attack: Christmas tree attack sends crafted TCP packet to obtain information about the target system.

Null scanning attack: In Null Scanning attack, a packet without any flags of the TCP header tries to exploit a system.



Click **Save** when you are done.

NAT

Go to **Features > Firewall** and click the **NAT** tab to configure the router's advanced firewall settings such as DMZ and Application Level Gateway (ALG).

Interface Name: Select the interface where the packets coming into the WAN port will be redirected to a specific IP address in DMZ. PVC denotes the WAN port configured with ADSL service and PTM denotes the WAN port configured with VDSL service.

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 public network.

DMZ IP Address If you enable DMZ, enter the IP address of the client to be placed in this zone.

Application Level Gateway (ALG) Configuration

Different ALGs provide special handling for specific protocols or applications to allow data of these applications to pass through an NAT-enabled router. For each protocol type, click **Enable** to activate the ALG. A number of ALGs for common applications are enabled by default.

Enable L2TP ALG: Allows multiple machines on the LAN to connect to their corporate network using the Layer 2 Tunneling Protocol (L2TP).

Firewall
Save

DMZ (Exposed Host)

DMZ (Exposed Host): From the Internet you can access to a client within the DMZ. This client is more vulnerable than the other clients in your LAN. It is strongly recommended to store any sensitive data behind the DMZ protected by a firewall; ALG: In addition, it will strictly restrict the traffic flow that does not meet its limited filtering specifications.

Features >> Nat

DMZ (Exposed Host) Configuration

Interface name:

Enabled: Disable

IP address:

Application Level Gateway (ALG) Configuration

Enable L2TP ALG: Enable

Enable IPsec ALG: Enable

Enable H.323 ALG: Enable

Enable RTSP ALG: Enable

Enable SIP ALG: Enable

Enable FTP ALG: Enable

Enable PPTP ALG: Enable

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

Enable H.323 ALG: H.323 standard provides VoIP telephony and video conferencing. Enable ALG for H.323 if such applications will be used in your network.

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

Enable 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 ALG off. This is disabled by default.



Enable FTP ALG: Allows devices running FTP (File Transfer Protocol) to provide such service successfully through the NAT router.

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

Click **Save** when you are done.

Application

Port triggering allows ports to be opened for inbound traffic when outbound traffic is detected on specified ports. This is used for facilitating communication between applications and servers behind a NAT firewall. To access this page, go to **Features > Application**.

The currently defined Application rules are displayed in the table. Some commonly used Applications are pre-configured by default. If you wish to remove an application rule, click . If you wish to edit an application rule, click  in the **Edit** column. If you wish to create a new application rule, click the **Add Rule** button.

Create New Rule

Name: Enter a name for this application.

Trigger Port Start: Enter the starting port range for the traffic that will be forwarded (1-65535).

Trigger Port End: Enter the ending port range for the traffic that will be forwarded (1-65535).

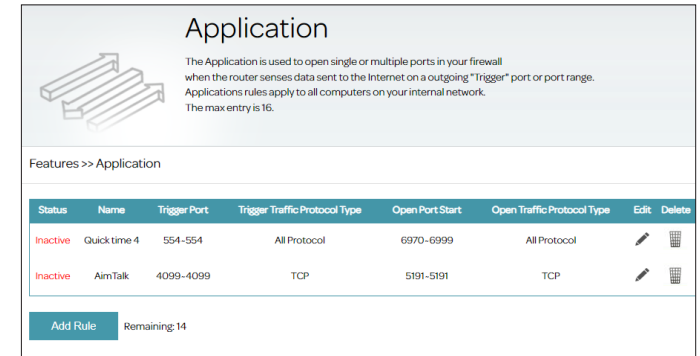
Trigger Traffic Protocol Type: Select the protocol to trigger this rule: **TCP**, **UDP**, or **All Protocol**.

Open Port Start: Enter the starting port to open once triggered (1-65535).

Open Port End: Enter the ending port to open once triggered (1-65535).

Open Traffic Protocol Type: Select the protocol to trigger this rule: **TCP**, **UDP**, or **All Protocol**.





Click **Apply** when you are done. A maximum of 16 rules can be defined.



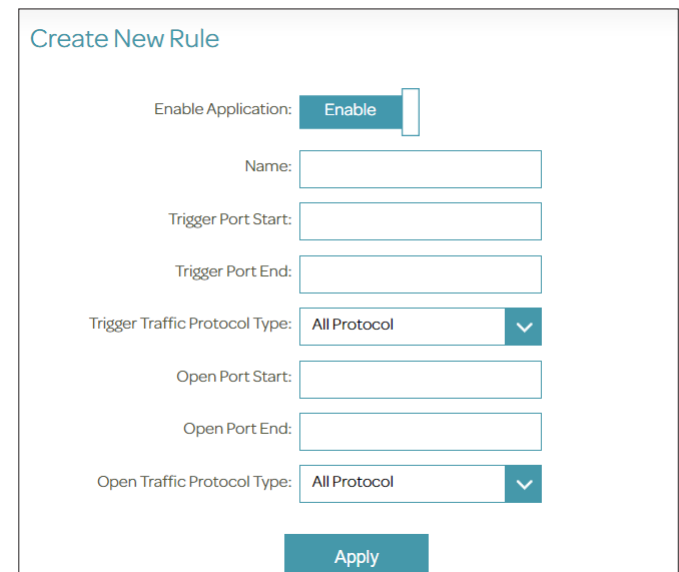
Application

The Application is used to open single or multiple ports in your firewall when the router senses data sent to the Internet on a outgoing "Trigger" port or port range. Applications rules apply to all computers on your internal network. The max entry is 16.

Features >> Application

Status	Name	Trigger Port	Trigger Traffic Protocol Type	Open Port Start	Open Traffic Protocol Type	Edit	Delete
Inactive	Quick time 4	554-554	All Protocol	6970-6999	All Protocol		
Inactive	AimTalk	4099-4099	TCP	5191-5191	TCP		

Add Rule Remaining: 14




Create New Rule

Enable Application: **Enable**

Name:


Trigger Port Start:

Trigger Port End:

Trigger Traffic Protocol Type: **All Protocol** 

Open Port Start:

Open Port End:

Open Traffic Protocol Type: **All Protocol** 

Apply

ACL

The Access Control List (ACL) page allows you to enable or disable various services of the router to be used within the LAN or from the WAN side. To access this page, go to **Features > ACL**. To start enforcing the ACL, click **Activated**.

Access Control Setup

ACL Rule Index: Select the rule index from the drop-down menu.

Active Activate or deactivate this particular access rule. Activated means the particular service can be accessed by the specified IP address range. Deactivated means the particular service cannot be accessed by the specified IP address range.

Source IP Address: Enter the IP address range to apply the rule to. Only addresses in the specified range have the permission to access this router with the below application. Enter 0.0.0.0 to allow any IP address to access the router.

Application: Select a pre-defined service: Web, Telnet, Ping or All for all of the above services.

ACL Rule IndexInterface: Select the interface from the drop-down menu to apply this access rule: Both, WAN, or LAN. For Telnet, only LAN is available.

Note: When setting ACL rules, be sure of the impact on the operation. For instance, if you modify the default ACL for web access IP range - 0.0.0.0~0.0.0.0 (any IP address) to not Active, then any device on the LAN cannot access the web configuration.

Click **Set** when you are done or **Delete** to remove the selected rule. A maximum of 4 rules can be defined.

ACL

You may use Telnet or Web to remotely manage the DSL-226 router. You need to enable Telnet or Web and specify an IP address that you want to grant access from. The default IP 0.0.0.0 allows any remote host to use the service to manage your DSL-226 router.

Features >> ACL
SET
DELETE

Access Control Setup

ACL: Activated

ACL Rule Index: 1

Active: Deactivated

Source IP Address: 0.0.0.0 - 0.0.0.0
(0.0.0.0 - 0.0.0.0 means all IPs)

Application: Web



ACL Rule IndexInterface: WAN

Access Control Listing

Index	Active	Source IP Address	Application	Interface
1	no	0.0.0.0-0.0.0.0	Web	WAN
2	yes	0.0.0.0-0.0.0.0	Web	LAN
3	no	0.0.0.0-0.0.0.0	Telnet	LAN
4	yes	0.0.0.0-0.0.0.0	Ping	LAN

Port Forwarding

Port forwarding allows you to specify ports to open for specific devices on the network. This might be necessary for certain applications to connect through the router. To access this page, go to **Features > Port Forwarding**.

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

Port Forwarding Setup

Enable Rules: Enable or disable the port forwarding rule.

Name: Enter a name for this rule.

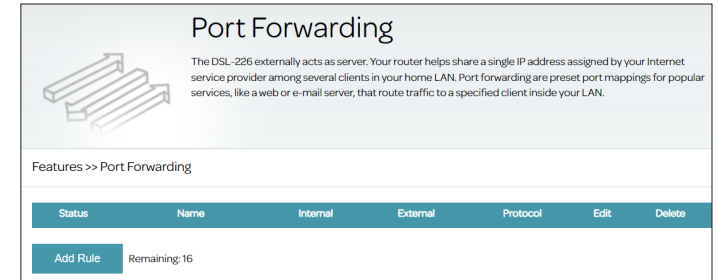
Internal Start/End Port: Enter the internal start/end port for this type of service.

External Start/End Port: Enter the external port for this type of service.

Internal Server IP: Enter the IP address of the computer on your local network that should receive the service requests.

Protocol Type: Select **TCP**, **UDP** or both **TCP/UDP**. Refer to the documentation for this service hosting on your internal computer.

Click **Apply** when you are done. After creating a port forwarding rule, you can enable it or disable it. The Status column will reflect its current enable/disable status. A maximum of 16 rules can be defined.



IP/MAC/Website Filtering

The system contains filtering functions to filter traffic based on the network protocols and source and destination IP addresses or MAC addresses. It also allows you to block access to certain websites. Go to **Features > IP/MAC/Website Filtering** to configure filtering rules.

Configure the following settings for IP/MAC filtering:

Filter Type Selection: Select IP/MAC Filter.

Rule Type Selection: Select either **Blacklist** or **Whitelist** to deny or permit the following filtering list.

IP / MAC Filter Rule Index: Select the rule number for configuration (1-16).

Active: Select Yes or No to activate or deactivate this rule.

Interface: Select the LAN or WAN interface to which the rule should apply.

Direction: Select Incoming or Outgoing for traffic that is received by the router from an external network (from WAN to LAN) or traffic that is sent out of the router (from LAN to WAN) respectively. Select both to apply both directions to this type of traffic.

Rule Type: Select either IP or MAC. If MAC is selected, enter a MAC address to be filtered. If IP is selected, enter the below IP address information.

Source IP Address/Subnet Mask/Port: Enter the source IP address (and subnet mask) and port that the rule will apply to. Enter 0.0.0.0 for any IP address and 0 for any port number.

IPv4 Filter

The filter rule section is an advance feature used to deny or allow traffic from passing through the device. It is possible to grand access or restrict traffic based on specific IP address or port.

Features >> IPv4 Filter SET DELETE

Filter Type Selection: IP / MAC Filter

Rule Type Selection: Black White

IP / MAC Filter Rule Index: 1 Modify here to add/delete/change the rule of your choose.

Active: Yes No

Interface: LAN

Direction: Both

Rule Type: IP MAC

Source IP Address: 0.0.0.0 (0.0.0.0 means Don't care)

Subnet Mask: 0.0.0.0

Port Number: 0 (0 means Don't care)

Destination IP Address: 0.0.0.0 (0.0.0.0 means Don't care)

Subnet Mask: 0.0.0.0

Port Number: 0 (0 means Don't care)

Protocol: TCP

Destination IP Address/Subnet Mask/Port: Enter the destination IP address (and subnet mask) and port that the rule will apply to. Enter 0.0.0.0 for any IP address and 0 for any port number.

Protocol: Select the network protocol for the traffic: **TCP, UDP, or ICMP** .

Click **Set** when you finished setting the rule. You can create up to 16 rules. The created rule should be listed in the below table. To delete a rule, select **IP/MAC Filter** as the Filter Type, and select the respective **Rule Index**, then click **Delete**. To edit a rule, select the respective Rule Index, modify the configuration, then click **Set**.

Configure the following settings for URL filtering:

Filter Type Selection: Select URL Filter.

Active: Select Yes or No to enable or disable URL filtering.

URL Index: Select the rule number for configuration (1-8).



Individual Active: Select Yes or No to activate or deactivate this filtering rule.

Rule Type: Enter the name for the website. This blocks access to websites based on a website's address. For example, enter "ABC.com" or "www.ABC.com." Or you may enter the corresponding IP address of a web server.

Click **Set** when you finished setting the rule. You can create up to 8 rules. The created rule should be listed in the below table. To delete a rule, select **URL Filter** as the Filter Type, and select the respective **Rule Index**, then click **Delete**. To edit a rule, select the respective Rule Index, modify the configuration, then click **Set**.

Static Route

The Static Routes page allows you to define custom routes to control how data traffic is moved around your network. To access this page, go to **Features > Static Route**.

If you wish to remove a rule, click  in the **Delete** column. If you wish to edit a rule, click  in the **Edit** column. If you wish to create a new rule, click the **Add Rule** button. Click **Save** when you are done.

Complete the following to create or edit a rule:

Create New Rule

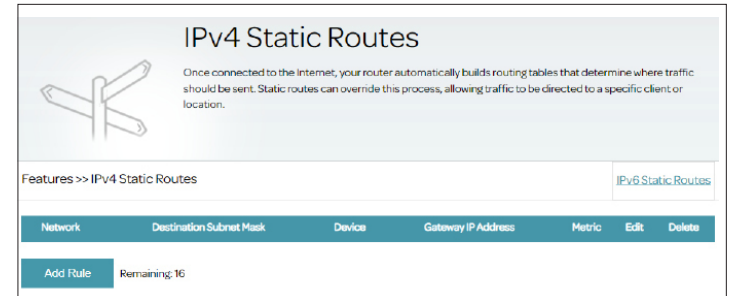
Destination Address: Enter the destination subnetwork IP address.

Destination Subnet Mask (IPv4): Enter the subnet mask of the destination address. The subnet mask determines an IPv4 subnetwork.

Gateway IP Address: Enter your next hop gateway to be taken if this route is used. Or select the interface to transit the packets of this static route. (Go to **Settings > Internet** to obtain the configured WAN interfaces.) PVC denotes the WAN port configured with ADSL service and PTM denotes the WAN port configured with VDSL service.

Metric: The route metric is a value from 0 to 15 that indicates the cost of using this route.

Click **Apply** when you are done. A maximum of 16 rules can be defined.



Dynamic DNS

The Dynamic Domain Name System (DDNS) assigns an easy-to-remember domain name such as [YourDomainName].com to a dynamic IP address assigned by your Internet Service Provider. Through the DDNS service provider, people can enter your domain name in their web browser to connect to your server (e.g. FTP or web), no matter what your IP address is. To access this page, go to **Features > Dynamic DNS**.

Complete the following to configure the DDNS:

Dynamic DNS Settings: Enable or disable Dynamic DNS.

DDNS Server: Select your DDNS service provider: www.dyndns.org, zoneedit.com, or www.no-ip.com.

Hostname: Enter the host name that you registered with your DDNS service provider.

Username: Enter the username for your DDNS account.

Password/Confirm Password: Enter the Password for your DDNS account. Then enter the same password again to confirm it.

Click **Save** when you are done.

Dynamic DNS

Dynamic Domain Name Service allows your router to associate an easy-to-remember domain name such as [YourDomainName].com with the regularly changing IP address assigned by your Internet Service Provider. This feature is helpful when running a virtual server.

Features >> Dynamic DNS Save

Dynamic DNS

Dynamic DNS Settings: Enable

DDNS Server: www.dyndns.org

User name:

Password:

Confirm Password:

Hostname:

IGMP

The Internet Group Management Protocol (IGMP) allows for the transmission of identical content, such as multimedia, from a source to a number of destination recipients.

Enable Snooping Support: Enable and disable Internet Group Management Protocol (IGMP) snooping to build multicast tables.

IGMP Proxy: Check the box to enable the router to operate as an Internet Group Management Protocol (IGMP) proxy for IPv4 traffic.

Click **Save** when you are done.

IGMP
Transmission of identical content, such as multimedia, from a source to a number of recipients.

Features >> IGMP Save

Enable Snooping Support: Enable

PvC1 Proxy: Enable

IGMP V1/V2/V3: Enable

QoS

Creating QoS helps manage proper resource allocation and reduce network congestion by providing a bandwidth limit to the designated client. The QoS engine ensures that the maximum uplink and downlink bandwidth assigned to the designated client will not exceed.

HostName Select a **Device** from the drop-down menu.

Uplink Bandwidth (Mbps) Set a maximum bandwidth for the content that is being transferred to the Internet from the client. It specifies bandwidth allocation as a bit rate (1-100 Mbit/s); 0 means no limit.

Downlink Bandwidth (Mbps) Set a maximum bandwidth for the content that is being transferred to the designated client from the Internet. It specifies bandwidth allocation as a bit rate (1-100 Mbit/s); 0 means no limit.

QoS Engine

Connected clients can be limit the uplink and downlink rate in here. Then click save button.

Advanced >> QoS Engine Save

HostName: 09051NBWIN10

UplinkBandwidth: 70 Mbit/s (1-100; default:0 no limit)

DownlinkBandwidth: 50 Mbit/s (1-100; default:0 no limit)

ID	Description	Up	Down	Edit	Delete
1	09051NBWIN10	70	50	<input type="button" value="edit"/>	<input type="button" value="delete"/>

Click **Save** when you are done.

If you wish to modify a QoS rule, click **Edit** in the Edit field of the desired rule, enter the value in the field as shown in the above description, then click **Save**. If you wish to delete a QoS rule, click **Delete** in the Delete field of the desired rule.

TR069

TR069 allows for automatic configuration between an auto-configuration server (ACS) and your router. To access this page, go to **Features > TR069**. Please check with your service provider, or leave the settings at their defaults if you are not sure.

TR-069

CWMP: Activate or deactivate CPE WAN Management Protocol (CWMP)

ACS Login Information

URL: Specify the URL of the auto-configuration server (ACS), starting with http://.

Username: Enter the username to log in to the ACS remote server.

Password: Enter the password to log in to the ACS remote server.

Connection Request Information

Connection Request Path: Specify the request path here.

Username: Enter the username for connection request sent from the ACS remote server to the router.

Password: Enter the password for connection request sent from the ACS remote server to the router.

Periodic Inform

Periodic Inform: Activate or deactivate the periodic inform function.

Interval: Specify the interval in seconds for each inform packet (1-999999). The default is 5000.

Click **Save** when you are done.

TR069
The TR-069 Management allows the user to set the configuration of TR-069.

Features >> TR069 Save

CWMP: Activated

ACS Login Information

URL:
 User Name:
 Password:

Connection Request Information

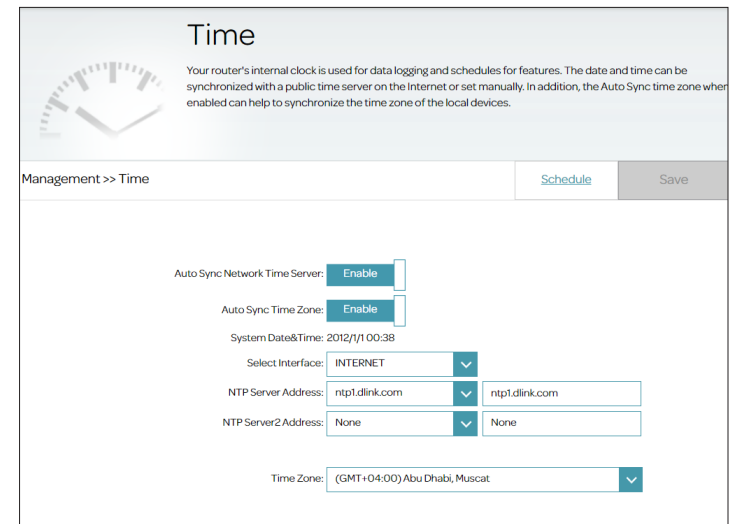
Path:
 UserName:
 Password:

Periodic Inform Config

Periodic Inform: Activated
 Interval:

Management Time & Schedule Time

The Time page allows you to configure, update, and maintain the correct time for the internal system clock. From here you can set the time zone and the Network Time Protocol (NTP). To access this page, go to **Management > Time & Schedule**.



Time

Your router's internal clock is used for data logging and schedules for features. The date and time can be synchronized with a public time server on the Internet or set manually. In addition, the Auto Sync time zone when enabled can help to synchronize the time zone of the local devices.

Management >> Time Schedule Save

Auto Sync Network Time Server: Enable

Auto Sync Time Zone: Enable

System Date&Time: 2012/1/1 00:38

Select Interface:

NTP Server Address:

NTP Server2 Address:

Time Zone:

Auto Sync Network Time Server: Enable or disable automatic synchronization of the date and time with a Network Time Protocol (NTP) server.

Auto Sync Time Zone: Enable or disable automatic time zone selection. If this is disabled, select your time zone in the following **Time Zone** drop-down list.

System Date&Time: Displays the current system date and time.

Select Interface Select the interface for network time communication.

NTP Server/2 Address: Select the NTP server address from a list of available NTP servers. If you selected **Other**, enter the NTP server in the field. Adding a second server is optional. Select **None** if you don't want to specify a backup NTP server.

Time Zone Select the router's time zone from the drop-down list.

Click **Save** when you are done. To configure and manage the schedule, click the **Schedule** tab and refer to **Schedule** on page **75**.

Schedule

Some configuration rules can be set according to a pre-configured schedule. For example, Wi-Fi schedules for wireless network availability (refer to **Settings > Wireless**). To access this page, go to **Management > Time & Schedule** and click the **Schedule** tab.

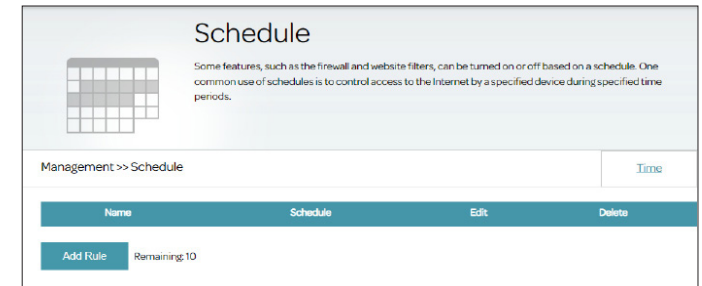
To edit or create a rule, use the following procedure:

First, enter the name of your schedule in the **Name** field. Please do not enter special characters such as space or !~<>+-. Note that names cannot be modified once a rule is created.

Each box represents one hour, with the time for a 24-hour clock at the top of each column. To add a time period to the schedule, simply click on the start hour and drag to the end hour. You can add multiple periods per day and multiple days to the schedule.

To remove a time period from the schedule, click on the x icon. Click **Apply** when you are done to close the screen.

If you wish to remove a schedule, click  in the **Delete** column. If you wish to edit a rule, click  in the **Edit** column. If you wish to create a new schedule, click the **Add Rule** button. A maximum of 10 schedules can be created.

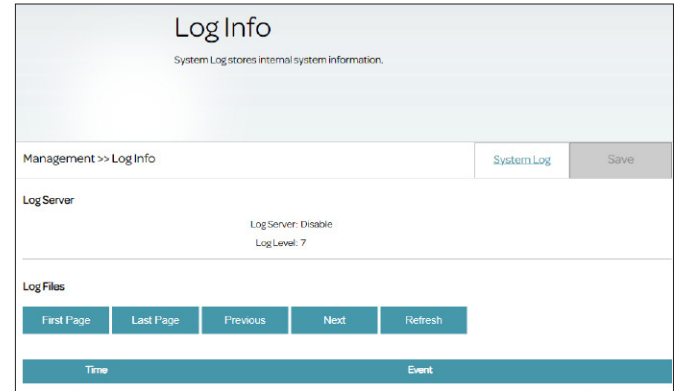


Log Info

The router keeps a running log of events. To access this page, go to **Management > Log Info**. System logging must be enabled in order for this feature to work.

Refer to **System Log** on page **77** for information on how to enable the system logging.

Note that the type of log events is determined by the log level setting in **System Log**.



System Log

This page controls how the System Log operates. System Log can be used to analyze connectivity problems and troubleshoot a network. This log can be sent to a syslog server or saved to your local hard drive. To access this page, go to **Management > Log Info** and click the **System Log** tab.

Save Log File

Save Log File to Local Hard Drive: Click this button to save a copy of the log file to your local hard drive. It will be saved according to your browser's default download directory. You can view the log entries by opening the log file with any text editing applications such as WordPad on Windows.

Log Type

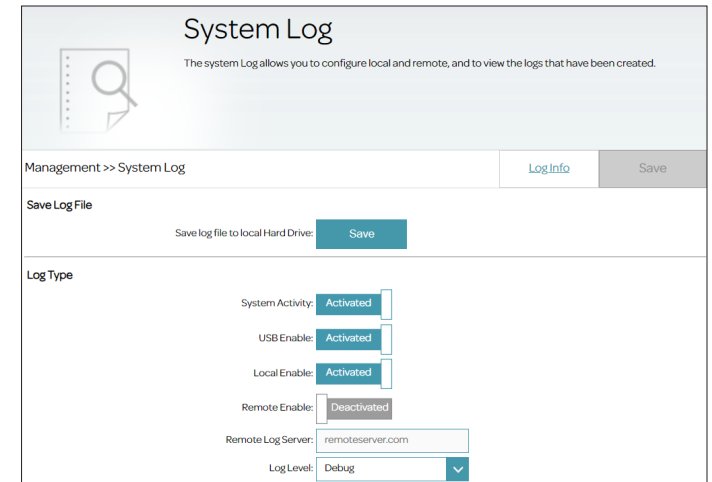
System Activity: Activate or deactivate logging for system activities. Enable this to start the system log server.

USB Enable: Activate or deactivate logging on the USB storage.

Local Enable: Activate or deactivate logging on the system's flash of the router.

Remote Enable: Activate or deactivate remote logging. If enabled, enter the remote log server below.

Remote Log Server: Enter the IP address or URL address for the Syslog server.



The screenshot shows the 'System Log' configuration interface. At the top, there is a title 'System Log' and a descriptive sentence: 'The system Log allows you to configure local and remote, and to view the logs that have been created.' Below this, a breadcrumb trail reads 'Management >> System Log'. There are two tabs: 'Log Info' (which is selected) and 'Save'. Under the 'Save Log File' section, there is a label 'Save log file to local Hard Drive:' followed by a blue 'Save' button. The 'Log Type' section contains several settings: 'System Activity' (Activated), 'USB Enable' (Activated), 'Local Enable' (Activated), 'Remote Enable' (Deactivated), 'Remote Log Server' (remoteserver.com), and 'Log Level' (Debug).

Log Level: Select the level of severity as listed from the highest to the lowest to be logged:

Emergency: Indicates that the system is in critical condition which can render the system non-functioning.

Alarm: Indicates that immediate action is needed.

Important: Indicates that the system is in a condition that requires urgent attention.

Error: Indicates that there is an error in the device.

Warning: Indicates that a warning message of an operational problem .

Note: Indicates a normal but not stable condition.

Notice: Indicates a condition that is not erroneous but requires some attention.

Debug: Contains debugging messages for debugging purposes.

Click **Save** when you are done.

System Settings

This page allows you to save the router's current configuration, load a previously saved configuration, reset the router to its factory defaults, or reboot the router. To access this page, go to **Management > System Settings**.

Device Information

Hardware Version: Displays the hardware version of the router.

Firmware Version: Displays the current firmware version.

System Settings

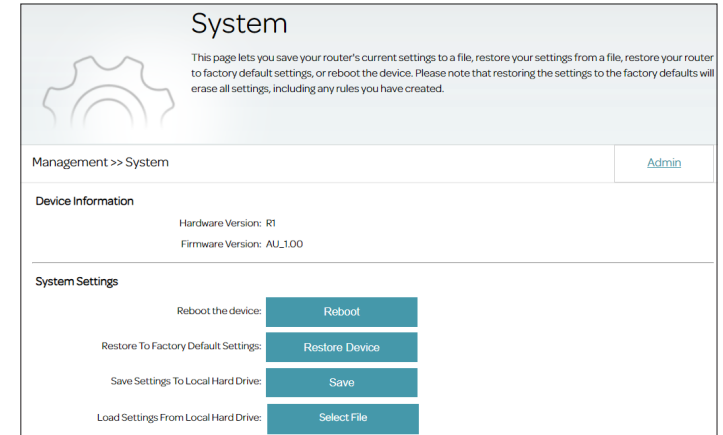
Reboot the Device: Click **Reboot** to reboot the router.

Restore to Factory Default Settings: This option will restore all configuration settings back to the settings that were in effect at the time the router was shipped from the factory. Any settings after that time will be lost, including any rules that you have created. You can save the current router configuration settings before performing factory restoration with the **Save Settings to Local Hard Drive** function below.

Save Settings to Local Hard Drive: This option will save the current router configuration settings to a file (.cfg) on your computer. Click **Save** to save the configuration file to your browser's default download directory. This configuration file can be used to restore your router to a previous state with the **Load Settings From Local Hard Drive** below.

Load Settings From Local Hard Drive: This option will load a previously saved router configuration file. This will overwrite the router's current configuration. Click **Select File** to locate the configuration file from your local directory, then click **Upload Settings** to start uploading the configurations.

Note: The router will reboot during the restoration process. Do not turn the power on or off.



Admin

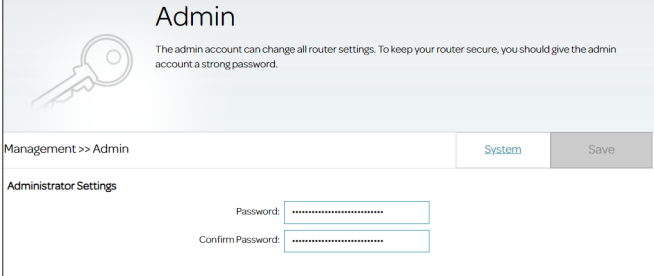
This page allows you to change the administrator (admin) password and enable remote management of the router. To access this page, go to **Management > System Settings**, and click the **Admin** tab.

Administrator Settings

Password: Enter a new password for the admin account. You will need to enter this password whenever you configure the router using a web browser. Note that passwords must contain 1 to 15 characters and it must not include special characters.

Confirm Password: Confirm the administrator account password.

Click **Save** when you are done.



Admin

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

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

Administrator Settings

Password:

Confirm Password:

Firmware Upgrade

This page allows you to upgrade the router's firmware. To access this page, go to **Management > Firmware Upgrade**.

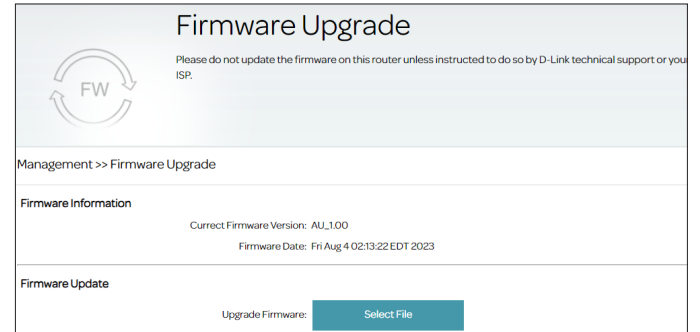
Firmware Information

Current Firmware Version: Displays the current firmware's version.

Firmware Date: Displays the current firmware's timestamp.

Firmware Update

Upgrade Firmware: If you wish to upgrade manually, first download the firmware file you wish to upgrade to. Next, click the **Select File** button and locate the firmware file. Then, click **Upload** to begin the upgrade process. Do not power off the router while the firmware is being uploaded; otherwise, errors will occur that may result in malfunction of the router and further RMA services may be required.



Statistics

This page gives you various statistics about data transmitted and received by your router through the Internet and on your wired network (LAN) and your wireless networks. To access this page, go to **Management > Statistics**.

You can view the statistics of the **Internet**, **LAN**, or **Wireless 2.4 GHz** interface by clicking on the respective tab at the top of the graph. The current amount of traffic being sent and received, measured in kilobyte per second is displayed, along with the current number of sessions. The graph will update every few seconds.

The table at the bottom of the page displays the total number of packets and the amount of data sent and received since the DSL-226 started.

Note: The traffic counter will reset when the device restarts.



Diagnostics

This page provides functions to test the router's connection to another device in the Internet. To access this page, go to **Management > Diagnostics**. Select the **Ping Test** or **Traceroute Test** function. The ping test verifies the availability of a destination host while the traceroute shows the route of data transferred to a destination host.

Ping/Traceroute Test

To perform a test, enter the IP address or web address in the **Address** field, select either **Ping test** or **Traceroute**, then click **Run test**.

The results of the test will be displayed in the text box below.

Diagnostics

You need to run a couple of diagnostic tests to check that your broadband is working correctly.
To perform a Ping test & Traceroute, enter the address you wish to test in the box below, and click the Run Test button.

Management >> Diagnostics

Enter address (WWW or IP):

Select test you wish to perform: Ping test Traceroute Run test

- Info -

Results from Ping, Traceroute:

Diagnostics

You need to run a couple of diagnostic tests to check that your broadband is working correctly.
To perform a Ping test & Traceroute, enter the address you wish to test in the box below, and click the Run Test button.

Management >> Diagnostics

Enter address (WWW or IP):

Select test you wish to perform: Ping test Traceroute Run test

Results from Ping, Traceroute:

```

PING 172.217.163.36 (172.217.163.36): 56 data bytes
64 bytes from 172.217.163.36: icmp_seq=0 ttl=56 time=2.2 ms
64 bytes from 172.217.163.36: icmp_seq=1 ttl=56 time=21 ms
64 bytes from 172.217.163.36: icmp_seq=2 ttl=56 time=21 ms
64 bytes from 172.217.163.36: icmp_seq=3 ttl=56 time=21 ms
64 bytes from 172.217.163.36: icmp_seq=4 ttl=56 time=21 ms

--- 172.217.163.36 ping statistics ---
5 packets transmitted, 5 packets received, 0% packet loss
          
```

Diagnostics

You need to run a couple of diagnostic tests to check that your broadband is working correctly.
To perform a Ping test & Traceroute, enter the address you wish to test in the box below, and click the Run Test button.

Management >> Diagnostics

Enter address (WWW or IP):

Select test you wish to perform: Ping test Traceroute Run test

Results from Ping, Traceroute:

```

Traceroute Result:
traceroute to 8.8.8.8 (8.8.8.8), 30 hops max, 60 byte packets
 1 172.17.5.254 13.719 ms 10.829 ms 19.529 ms
 2 160.153.250.43 0.308 ms 0.287 ms 0.226 ms
 3 61.220.144.254 10.104 ms 9.993 ms 10.022 ms
 4 168.96.81.198 1.215 ms 1.155 ms 1.153 ms
 5 200.126.2.50 2.043 ms 1.694 ms 2.35 ms
 6 * * *
 7 220.128.12.177 2.191 ms 1.959 ms 1.814 ms
 8 72.14.202.178 2.593 ms 2.595 ms 2.595 ms
          
```

Connect and Share a USB Storage Device


After you have successfully installed and configured your D-Link Modem Router, you are ready to enjoy the benefits of D-Link's USB sharing technology. This allows you to quickly and easily share a USB storage device with multiple computers on your network.

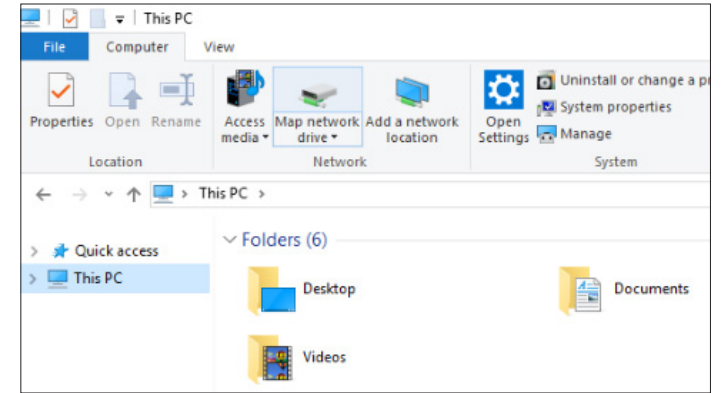
The DSL-226 will share a FAT32 or NTFS-formatted USB storage device using the Samba file sharing protocol. Once connected, you can copy, move, delete, and edit files over the network like you would with any ordinary drive attached to your computer. First, connect a USB storage device to the USB Port on the DSL-226.



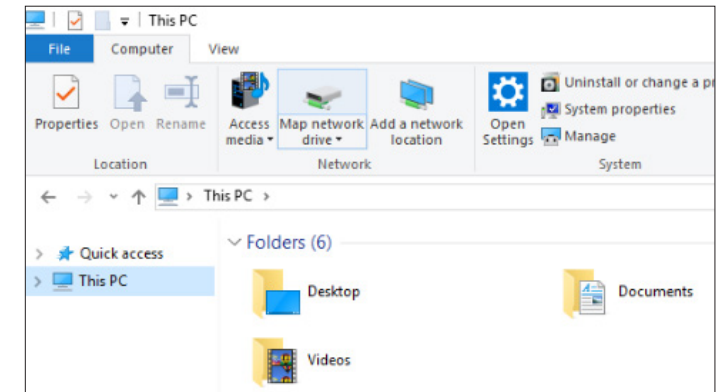
Connecting from a Windows-Based PC

It is required that all of your devices are connected to the same wireless network as the DSL-226.

Step 1 - Press the Windows logo key  + E to open **File Explorer**.



Step 2 - Select **This PC** from the left pane. Then, on the **Computer** tab, select **Map network drive**. On Windows 11, select **More** and select **Map network drive** at the top.

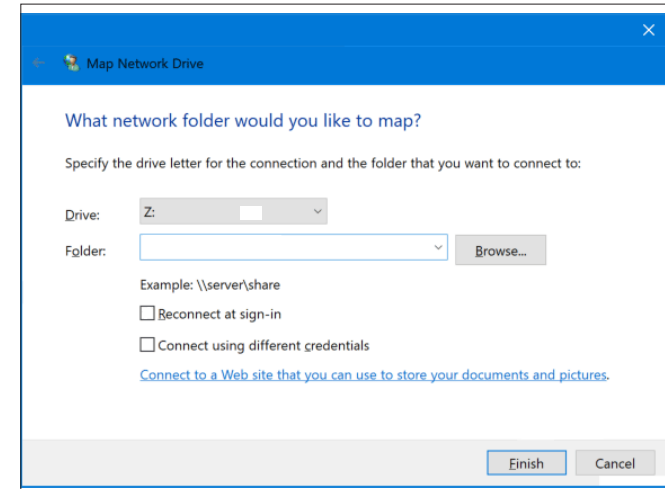


Step 3 - Select the drive letter you wish to map your network drive to. In the **Folder** box, enter the DSL-226's IP address (or the NetBIOS name) and the name of the USB volume, for example, `\\192.168.1.1\usb1_1`. You may also click **Browse...** to locate the networked device and mapped drive.

Check the boxes **Reconnect at Sing-in** (if you want to connect every time you sign in to your PC) and **Connect using different credentials**.

Click **Finish**.

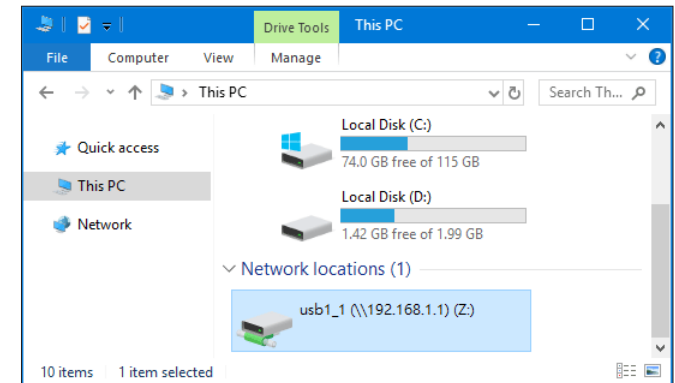
If you have multiple USB storage devices attached via a **USB hub**, click **USB Device** from the **Home** page of the DSL-226's Web Configuration utility for a list of available volume names.



Step 4 - Enter the username and the password to connect to the router and click **OK**. Also check the **Remember my credentials** box. The credentials can be found on the USB settings page (refer to **Settings > USB**).



Congratulations! Your files are now shared. The new network drive can be found in your File Explorer. You can access it without having to type its network name each time. Repeat this process from each Windows PC you wish to share your USB drive with.



Connect and Share with DLNA Devices

The DSL-226 can also stream media files using Digital Living Network Alliance (DLNA). With other DLNA-enabled devices, you can share photos, music, and videos stored in the USB drive with other computers and devices on your network . Connect a USB storage device to the USB Port on the DSL-226 first.

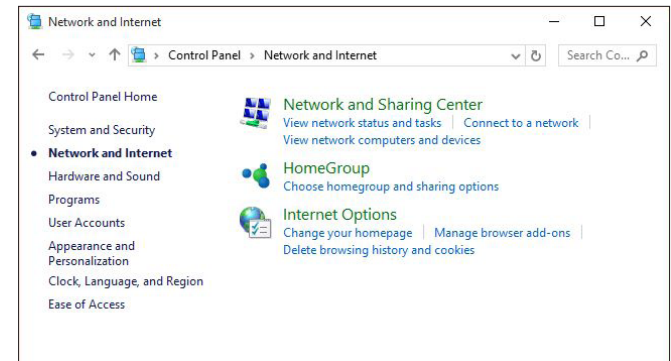


Accessing from File Explorer on Windows

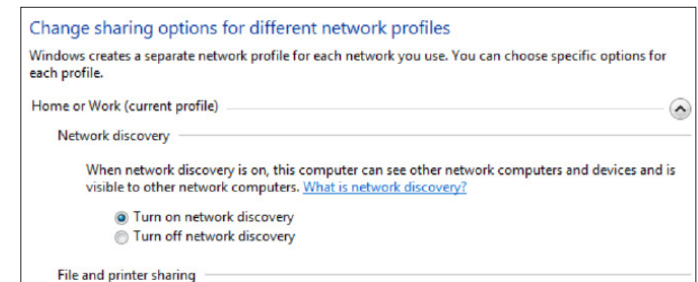
Note: It is required that all of your devices are connected to the same wireless network as the DSL-226.

Step 1 - Enable network discovery on Windows:

Go to **Control Panel > Network and Internet > Network and Sharing Center** and select **Change advanced sharing settings** on the left.

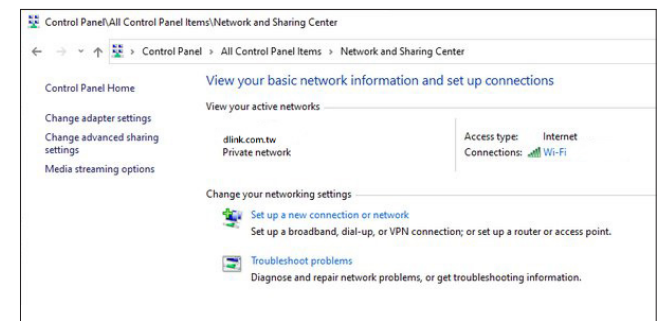


Step 2 - Network sharing settings can be configured differently for different network profiles. Select **Turn on network discovery** for your **private network** or choose the desired network. Also select **Turn on automatic setup of network connected devices**.

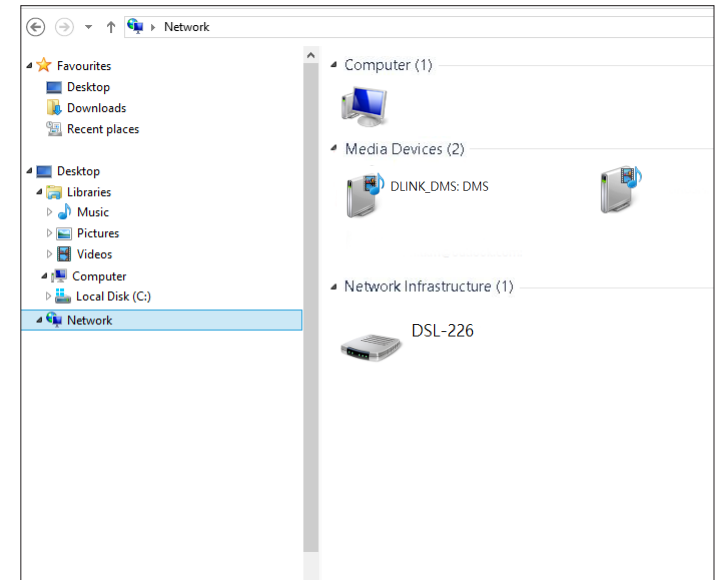


Step 3 - Enable media streaming:

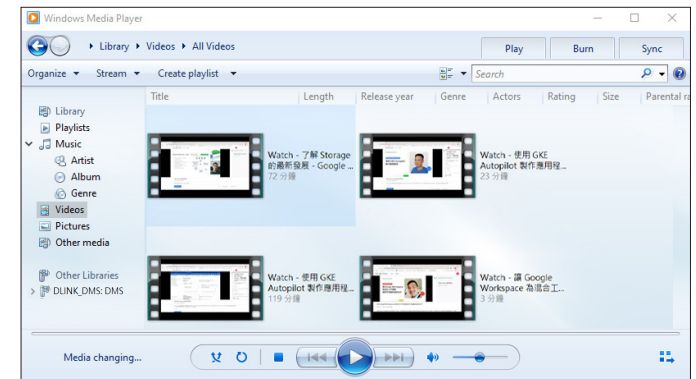
Go back to the previous menu and select **Media streaming options**. Click **Turn on media streaming** if it says that Media streaming is not turned on.



Step 4- Click **Network** to list connected network devices on your network in your File Explorer.



Step 5 - Double-click your **DSL-226** listed under **Media Devices**. The Windows Media Player will start automatically. You can then browse your shared media under Other Libraries and play them directly.



Connect a Wireless Client to Your Router

WPS Button

The easiest 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 have a WPS button (or a software utility with WPS) that you can press to connect to the DSL-226. 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 DSL-226 for a short time (long-press will disable the Wi-Fi function).
The WPS LED on the front panel will start to blink.



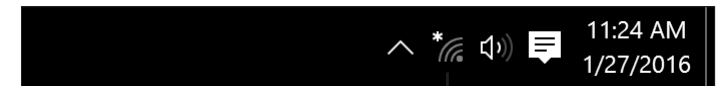
Step 2 - Within 2 minutes, press the WPS button on your wireless device (or launch the software utility and start the WPS process).

Step 3 - Allow up to 1 minute for your connection to be configured. Once the WPS LED stops blinking, you will be connected using WPA2 encryption.




Windows® 11/10 WPA/WPA2

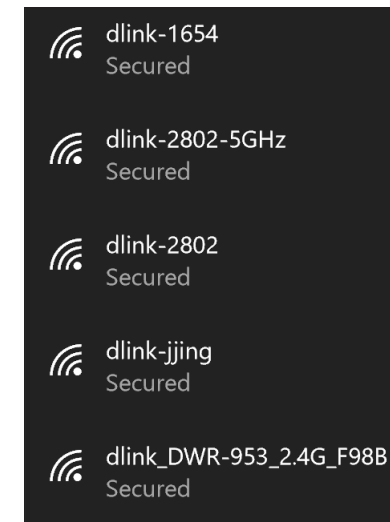
When connecting to the DSL-226 wirelessly for the first time, you will need to input the wireless network name (SSID) and Wi-Fi password (security key) of the device you are connecting to. If your product has a Wi-Fi configuration card, you can find the default network name and Wi-Fi password here. Otherwise, refer to the product label on the bottom of the device for the default Wi-Fi network SSID and password or enter the Wi-Fi credentials set during the product configuration.

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



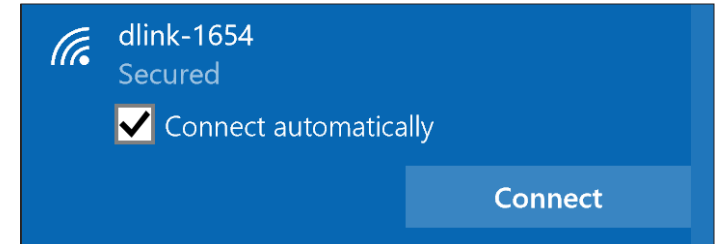
Wireless Icon

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.



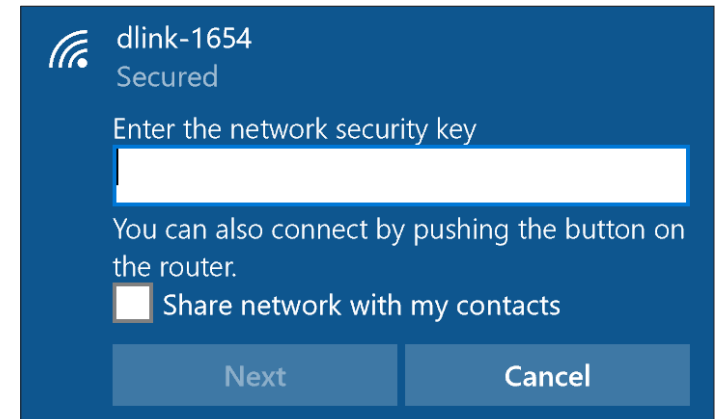
To connect to the SSID, click **Connect**.

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.

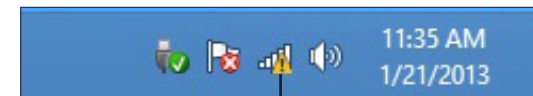


Windows® 8

WPA/WPA2

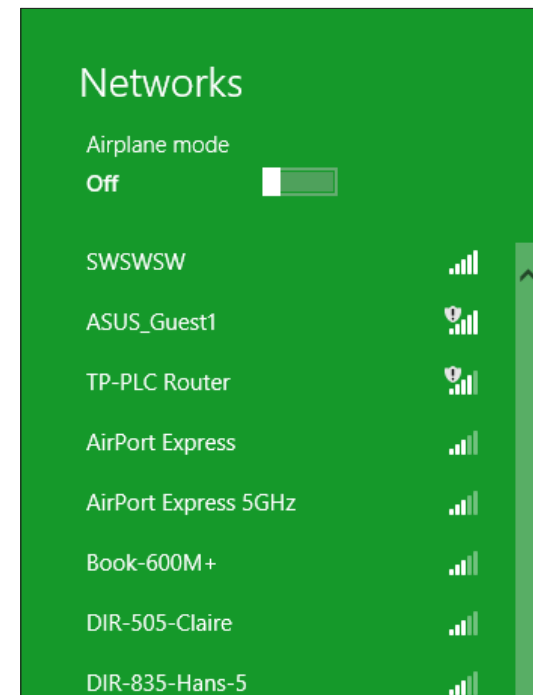
Please configure the wireless security (WPA/WPA2) method on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the security key (Wi-Fi password).

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



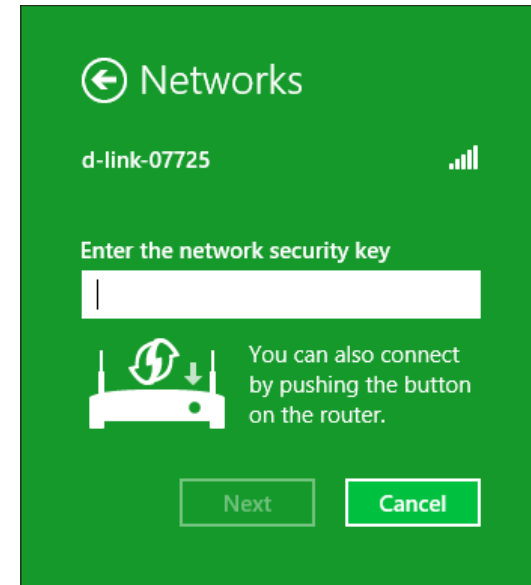
Wireless Icon

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

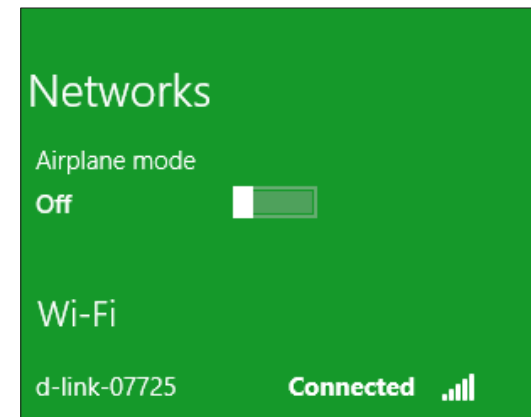


You will then be prompted to enter the network security key (Wi-Fi password) for the wireless network. Enter the password into the box and click **Next**.

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



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



Windows® 7

WPA/WPA2

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

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



Wireless Icon

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



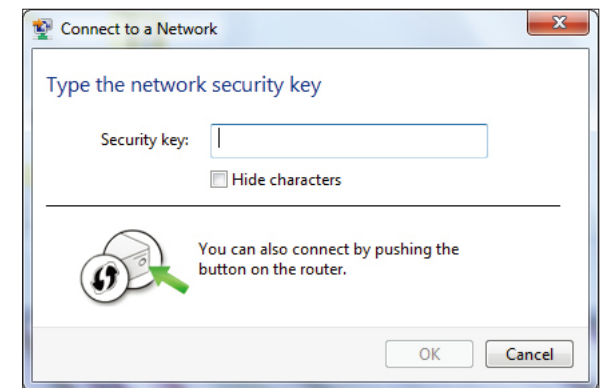
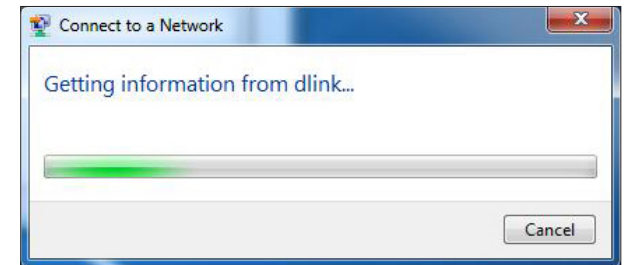
3. Highlight the wireless connection with Wi-Fi name (SSID) you would like to connect to and click the **Connect** button.

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

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



5. Enter the same security key or passphrase (Wi-Fi password) that is on your router and click **OK**. You can also connect by pushing the WPS button on the router. It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as the one on the wireless router.



Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DSL-226. Read the following descriptions if you are having problems. The examples below are illustrated in Windows® XP. If you have a different operating system, the screenshots on your computer will look similar to these examples.

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

When entering the IP address of the D-Link router (**192.168.1.1** for example), you are not connecting to a website, nor do you have to be connected to the Internet. The device has the utility built-in to a ROM chip in the device itself. Your computer must be on the same IP subnet to connect to the web-based utility.

- Make sure you have an updated Java-enabled web browser. We recommend the following:
 - Microsoft Internet Explorer® 7 or higher/Edge
 - Mozilla® Firefox
 - Google™ Chrome
 - Apple® Safari 7 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 configuration. 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 configuration.
- If you still cannot access the configuration, unplug the power to the router for 10 seconds and plug back in. Wait about 30 seconds and try accessing the configuration. If you have multiple computers, try connecting using a different computer.

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

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

To reset the router, locate the reset button (a hole) on the bottom of the unit. With the router powered on, hold the button down for 5 seconds and release the button. The router will go through its reboot process (all LEDs will be off and on again). Wait about 30 seconds to access the router. The default IP address is **192.168.1.1**. When logging in, enter the admin password shown on device label attached to the bottom of the device.

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

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

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

- Click on **Start** and then click **Run**.
or
- Click on **Start** and type *cmd* in the **Search** box.
- Once Command Prompt opens, you'll need type the ping command with parameters. Use the following syntax:

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

Example: **ping yahoo.com -f -l 1472**

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

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

```
C:\>ping yahoo.com -f -l 1482
Pinging yahoo.com [66.94.234.13] with 1482 bytes of data:
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.

Ping statistics for 66.94.234.13:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss)
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping yahoo.com -f -l 1472
Pinging yahoo.com [66.94.234.13] with 1472 bytes of data:
Reply from 66.94.234.13: bytes=1472 time=93ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=109ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=125ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=203ms TTL=52

Ping statistics for 66.94.234.13:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 93ms, Maximum = 203ms, Average = 132ms

C:\>
```


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

- Open your browser, enter the IP address of your router (192.168.1.1) and click **OK**.
- Enter the admin password (default device password is on the device label). Click **OK** to enter the web configuration page for the device.
- Go to **Settings > Internet**. Then select the desired WAN connection type and the respective configuration. Choose the **Advanced Settings**.
- To change the **MTU**, enter the number in the MTU field and click **Save** to save your settings.
- Test your email. If changing the MTU does not resolve the problem, continue changing the MTU in increments of ten.

Wireless Basics

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

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

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

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

What is Wireless?

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

How does wireless work?

Wireless works similarly to how cordless phones work, through radio signals that transmit data from one point A to point B. But wireless technology has restrictions as to how you can access the network. You must be within the wireless network range area to be able to connect your computer.

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.

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 or storage 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.

Channel and Width Selection

Auto channel is recommended when configuring channels for the wireless network. However, you can select a particular channel to avoid congested channels. For 2.4 GHz, channels 1, 6, and 11 do not overlap, which reduces the possibility of interference and increases reliability. Channel bonding allows 20 MHz to bond together to increase the channel width to 40, doubling the data transmission capacity of the wireless network. For 802.11n, you can select 20/40 MHz Channel Width. In general, higher channel width should be used to meet performance requirement, for example, applications that provide location-based services and content streaming. On the other hand, lower channel width should be used for deployment with high density of AP devices and to accommodate mobile devices with older standards.

Signal Strength

Even though you may have chosen the least congested channel, connection reliability requires strong signals. Factors such as the number of walls or obstacles (especially metal objects) between your access point and client PC, the distance between the PC and the AP, and the position of the AP or router as well as your PC affect the strength of a wireless signal.

The signal strength can be obtained from the built-in utility of the desktop or mobile devices. For example, the Windows wireless connection icon uses the number of bars to indicate the signal strength of the wireless network. On an Android phone there is also the wireless connection icon displaying signal strength for wireless networks in range (go to Settings > Network & Internet > Internet).

Encryption

Don't let your next-door neighbors or intruders connect to your wireless network. Encrypt your wireless network by turning on the latest encryption on the router. Create a long passphrase with random characters and change it regularly.

Networking Basics

Check your IP address

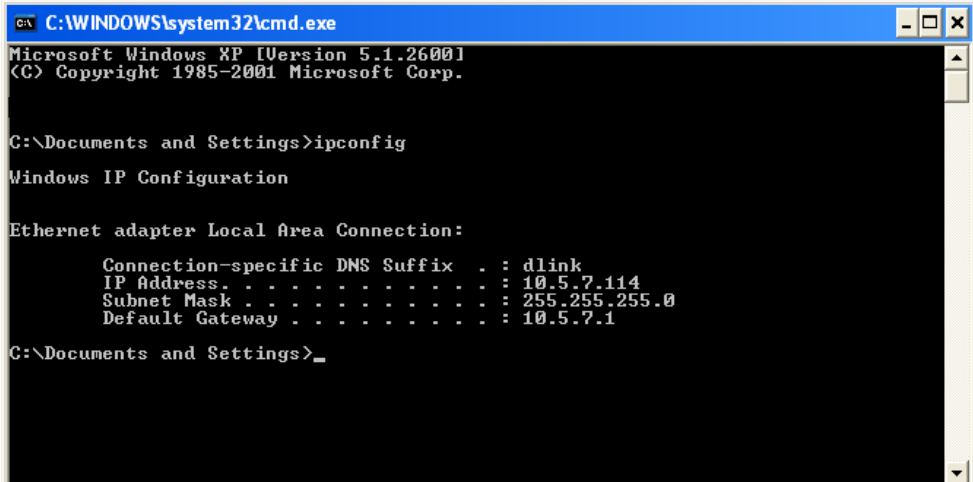
After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

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



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

C:\Documents and Settings>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

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

C:\Documents and Settings>_
```

Statically Assign an IP address

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

Windows® 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**. For Windows 7/8/XP, click **Change adapter settings**. Choose the network you want to modify, right-click on it, then select **Properties**.

3. Under **IP assignment**, select **Edit**. For Windows 7/8/XP, Select the **Networking** tab. Under **This connection uses the following items**, select **Internet Protocol Version 4 (TCP/IPv4)** or **Internet Protocol Version 6 (TCP/IPv6)**. Then select **Use the Following IP Address**.

4. Under **Edit network IP settings** or **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. The prefix-length in IPv6 has the same function as the subnet mask in IPv4: determine the subnetwork. However, it is expressed as an integer between 1 through 128 as opposed to four octets in IPv4.

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**.

The screenshot shows the 'Edit IP settings' window with the following configuration:

- Mode: Manual
- IPv4: On
- IP address: 10.1.2.222
- Subnet prefix length: 24
- Gateway: 10.1.2.1
- Preferred DNS: (empty)
- Alternate DNS: (empty)

Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The DSL-226 offers the following types of security:

- WPA2/WPA with 802.1x (Wi-Fi Protected Access 2)
- WPA2-PSK/WPA-PSK (Pre-Shared Key)
- WEP (Wired Equivalent Privacy)

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). WPA has 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. AES is a stronger and more efficient encryption method than TKIP.
- User authentication, which is generally missing in WEP, through the Extensible Authentication Protocol (EAP). WEP regulates access to a wireless network based on a computer's hardware-specific MAC address, which is relatively simple to be sniffed out and stolen. EAP is built on a more secure public key encryption system to ensure that only authorized network users can access the network.

WPA-PSK/WPA2-PSK uses a passphrase or key to authenticate your wireless connection. The key is an alpha-numeric password between 8 and 63 characters long. This key must be the exact same key entered on your wireless router or access point.

The WPA2/WPA with 802.1x option features WPA2/WPA used in coordination with a RADIUS server for user authentication in an organization or enterprise environment. The exchange of authentication information between wireless clients and a RADIUS server employs Extensible Authentication Protocol (EAP).

Technical Specifications

Device Interfaces

- One RJ-11 DSL port
- 802.11n/g/b^{1,2} Wireless LAN
- One 10/100Base-TX Ethernet WAN/LAN port
- Three 10/100Base-TX Ethernet LAN ports
- One USB 2.0 port

Standards

- IEEE 802.11n/g/b
- IEEE 802.3/u/i

ADSL Standards

- G.dmt/G.lite/G.hs/VBR, CBR, UBR
- ITU-T G.992.5/ G.992.3/ G.992.2/ G992.1

VDSL Standards

- ITU-T G.993.5
- Profile 8a/8b/12a/12b/17a/30a/35b

Antenna Types

- Two external antennas

Wireless Signal Rate^{1,2}

- 2.4 GHz up to 300 Mbps²

Security

- WEP-128Bit/64Bit
- WPA™ - Personal/Enterprise
- WPA2™ - Personal/Enterprise
- Wi-Fi Protected Setup (WPS)

Notes:

1. Maximum wireless signal rate derived from IEEE Standard 802.11b, 802.11g, and 802.11n specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.
2. Frequency Range varies depending on country's regulation.

Power

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

Operating Temperature

- 0 to 40 °C (32 to 104 °F)

Storage Temperature

- -20 to 70 °C (-4 to 158 °F)

Operating Humidity

- 5% to 95% maximum (non-condensing)

Storage Humidity

- 5% to 95% maximum (non-condensing)

Certifications

- CE
- RCM
- RoHS

Dimensions

- 141.2 mm (5.6 inches)
- 100.1 mm (4 inches)
- 35 mm (1.25 inches)

Weight

- 150 grams (5.3 ounces)

Regulatory Statements



	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
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 .
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English	Hereby, D-Link Corporation, declares that this product, accessories, and software are in compliance with directive 2014/53/EU. The full text of the EU Declaration of Conformity and product firmware are available for download from the product page at www.dlink.com
Español [Spanish]	Por la presente, D-Link Corporation declara que este producto, accesorios y software cumplen con las directivas 2014/53/UE. El texto completo de la declaración de conformidad de la UE y el firmware del producto están disponibles y se pueden descargar desde la página del producto en www.dlink.com .
Ελληνική [Greek]	Με την παρούσα, η D-Link Corporation δηλώνει ότι αυτό το προϊόν, τα αξεσουάρ και το λογισμικό συμμορφώνονται με την Οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης της ΕΕ και το υλικολογισμικό του προϊόντος είναι διαθέσιμα για λήψη από τη σελίδα του προϊόντος στην τοποθεσία www.dlink.com .
Français [French]	Par les présentes, D-Link Corporation déclare que ce produit, ces accessoires et ce logiciel sont conformes aux directives 2014/53/UE. Le texte complet de la déclaration de conformité de l'UE et le microprogramme du produit sont disponibles au téléchargement sur la page des produits à www.dlink.com .

Italiano [Italian]	Con la presente, D-Link Corporation dichiara che questo prodotto, i relativi accessori e il software sono conformi alla direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE e il firmware del prodotto sono disponibili per il download dalla pagina del prodotto su www.dlink.com .
Latviski [Latvian]	Ar šo uzņēmums D-Link Corporation apliecina, ka šis produkts, piederumi un programmatūra atbilst direktīvai 2014/53/ES. ES atbilstības deklarācijas pilno tekstu un produkta aparātprogrammatūru var lejupielādēt attiecīgā produkta lapā vietnē www.dlink.com .
Lietuvių [Lithuanian]	Šiuo dokumentu „D-Link Corporation“ pareiškia, kad šis gaminys, priedai ir programinė įranga atitinka direktyvą 2014/53/ES. Visą ES atitikties deklaracijos tekstą ir gaminio programinę aparatinę įrangą galima atsisiųsti iš gaminio puslapio adresu www.dlink.com .
Nederlands [Dutch]	Hierbij verklaart D-Link Corporation dat dit product, accessoires en software voldoen aan de richtlijnen 2014/53/EU. De volledige tekst van de EU conformiteitsverklaring en productfirmware is beschikbaar voor download van de productpagina op www.dlink.com .
Malti [Maltese]	Bil-preżenti, D-Link Corporation tiddikjara li dan il-prodott, l-aċċessorji, u s-software huma konformi mad-Direttiva 2014/53/UE. Tista' tniżżel it-test s'ih tad-dikjarazzjoni ta' konformità tal-UE u l-firmware tal-prodott mill-paġna tal-prodott fuq www.dlink.com .
Magyar [Hungarian]	Ezennel a D-Link Corporation kijelenti, hogy a jelen termék, annak tartozékai és szoftvere megfelelnek a 2014/53/EU sz. rendeletnek. Az EU Megfelelőségi nyilatkozat teljes szövege és a termék firmware a termék oldaláról tölthető le a www.dlink.com címen.
Polski [Polish]	D-Link Corporation niniejszym oświadcza, że ten produkt, akcesoria oraz oprogramowanie są zgodne z dyrektywami 2014/53/EU. Pełen tekst deklaracji zgodności UE oraz oprogramowanie sprzętowe do produktu można pobrać na stronie produktu w witrynie www.dlink.com .
Português [Portuguese]	Desta forma, a D-Link Corporation declara que este produto, os acessórios e o software estão em conformidade com a diretiva 2014/53/UE. O texto completo da declaração de conformidade da UE e do firmware
Slovensko[Slovenian]	Podjetje D-Link Corporation s tem izjavlja, da so ta izdelek, dodatna oprema in programnska oprema skladni z direktivami 2014/53/EU. Celotno besedilo izjave o skladnosti EU in vdelana programska oprema sta na voljo za prenos na strani izdelka na www.dlink.com .
Slovensky [Slovak]	Spoločnosť D-Link týmto vyhlasuje, že tento produkt, príslušenstvo a softvér sú v súlade so smernicou 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-samræmisýfirlýsinguna í heild sinni og fastbúnað vörunnar af vefsíðu vörunnar á www.dlink.com .
Norsk [Norwegian]	Herved erklærer D-Link Corporation at dette produktet, tilbehøret og programvaren er i samsvar med direktivet 2014/53/EU. Den fullstendige teksten i EU-erklæring om samsvar og produktets fastvare er tilgjengelig for nedlasting fra produktsiden på www.dlink.com .

Warning Statement:

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

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

- This device is restricted to indoor use when operated in the European Community using channels in the 5.15-5.35 GHz band to reduce the potential for interference.
- This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries. This equipment may be operated in AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, and CY.

Usage Notes:

- To remain in conformance with European National spectrum usage regulations, frequency and channel limitations will be applied on the products according to the country where the equipment will be deployed.
- This device is restricted from functioning in Ad-hoc mode while operating in 5 GHz. Ad-hoc mode is direct peer-to-peer communication between two client devices without an Access Point.
- Please refer to the product manual or datasheet to check whether your product uses 2.4 GHz and/or 5 GHz wireless.

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

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

Gebrauchshinweise:

- Um den in Europa geltenden nationalen Vorschriften zum Nutzen des Funkspektrums weiterhin zu entsprechen, werden Frequenz und Kanalbeschränkungen, dem jeweiligen Land, in dem das Gerät zum Einsatz kommt, entsprechend, auf die Produkte angewandt.
- Die Funktionalität im Ad-hoc-Modus bei Betrieb auf 5 GHz ist für dieses Gerät eingeschränkt. Bei dem Ad-hoc-Modus handelt es sich um eine Peer-to-Peer-Kommunikation zwischen zwei Client-Geräten ohne einen Access Point.
- 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 u het product aanraakt.
- U mag nooit proberen het product te onderhouden en u mag het product nooit demonteren. Voor sommige producten met door de gebruiker te vervangen batterij, dient u de instructies in de gebruikershandleiding te lezen en te volgen.
- Mors geen voedsel of vloeistof op uw product en u mag nooit voorwerpen in de openingen van uw product duwen.
- Gebruik dit product niet in de buurt van water, gebieden met hoge vochtigheid of condensatie, tenzij het product specifiek geclassificeerd is voor gebruik buitenshuis.
- Houd het product uit de buurt van radiators en andere warmtebronnen.
- U dient het product steeds los te koppelen van de stroom voordat u het reinigt en gebruik uitsluitend een droge pluisvrije doek

Disposing and Recycling Your Product

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

D-Link et l'environnement

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

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

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

ESPAÑOL**ES**

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

D-Link y el medio ambiente

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

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

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

ITALIANO**IT**

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

D-Link e l'ambiente

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

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

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

NEDERLANDS**NL**

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

D-Link en het milieu

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

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

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

POLSKI**PL**

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

D-Link i środowisko

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

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

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

ČESKY**CZ**

Tento symbol na výrobku nebo jeho obalu znamená, že podle místně platných předpisů se výrobek nesmí vyhazovat do komunálního odpadu, ale odeslat k recyklaci. Až výrobek doslouží, odnešte jej prosím na sběrné místo určené místními úřady k tomuto účelu. Někteřá 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.

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

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

SVENSKA**SE**

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

D-Link och miljön

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

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

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

PORTUGUÊS**PT**

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

A D-Link e o ambiente

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

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

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