



User Manual

5G AC2600 Wi-Fi Router

DWR-978

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	January 07, 2022	• Initial release

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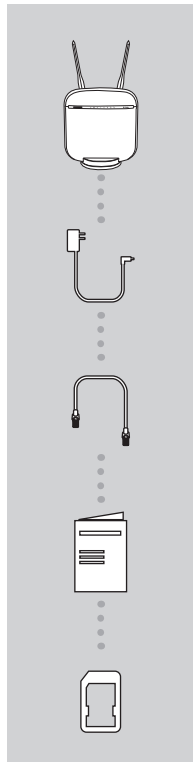
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Package Contents



**5G AC2600 WI-FI ROUTER
DWR-978**

12 V 4 A POWER ADAPTER

ETHERNET CABLE

QUICK INSTALL GUIDE AND WARRANTY DOCUMENTS

SIM CARD ADAPTER

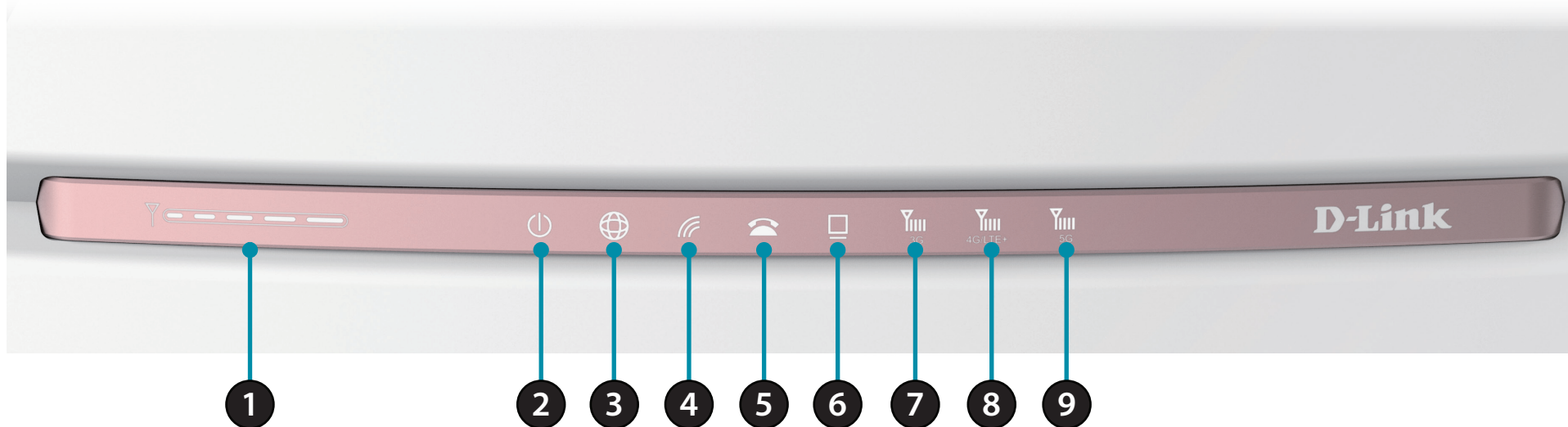
System Requirements

- Computer or mobile device with 802.11ac/n/g wireless adapter
- Internet Explorer® 9, Firefox® 12, Chrome™ 20, or Safari 5
- Mini SIM card
- Subscription with a mobile Internet Service Provider

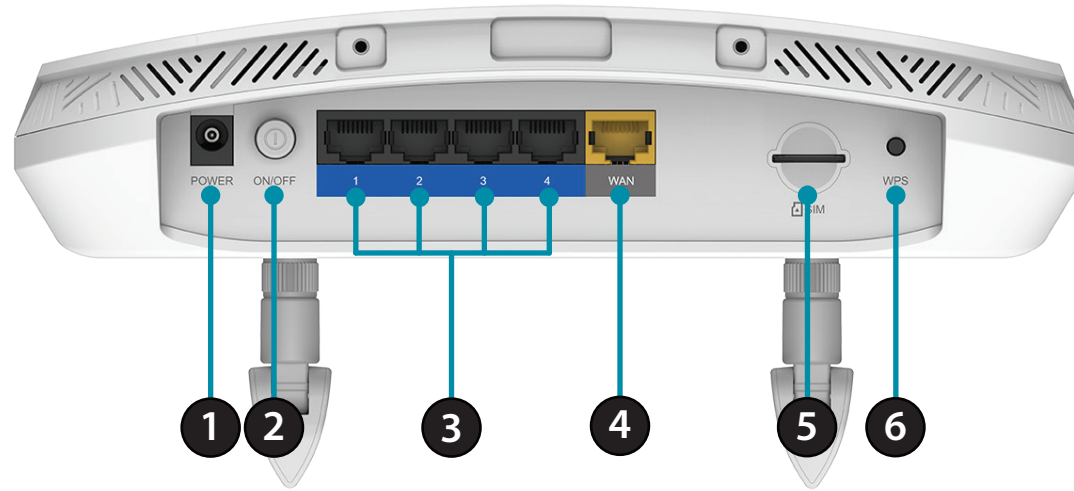
* Subject to services and service terms available from your carrier.

Hardware Overview

Front View



1	Signal Strength LED	Indicates Wi-Fi signal strength with bars. More bars indicates a stronger signal.
2	Power LED	Will be lit green if the device is powered on and working. Turns red if there is an error.
3	WAN	Will be lit if an Ethernet WAN connection is established, and will blink when data is being transferred.
4	Wi-Fi/WPS	Will be lit if the wireless function is enabled, blinks when data is transferred or during WPS pairing.
5	Phone	Will be lit if the phone function is enabled, blinks when data is transferred.
6	LAN	Will be lit if an Ethernet LAN connection is established, and will blink when data is being transferred.
7	3G	Will be lit if a 3G connection established.
8	4G/LTE+	Will be lit if a 4G/LTE+ connection is established.
9	5G	Will be lit if a 5G connection is established.



1	Power Connector	Connects to the included power adapter.
2	Power Button	Turns the device on or off.
3	Ethernet LAN Ports	For connection to a network-enabled desktop or notebook computer.
4	Ethernet WAN Port	For connection to a DSL/cable modem or router.
5	SIM card slot	For mobile network connections.
6	WPS Button	For WPS pairing with wireless devices.

Side View



1	USB Port	USB port 2.0 for media or external devices.
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Installation

This section will guide 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, or in an attic or garage.

Before You Begin

Ensure that your DWR-978 5G AC2600 Wi-Fi Router is disconnected and powered off before performing the steps below..

1. Verify that your SIM/UICC card is installed and has been activated by your carrier.

Caution: Always unplug/power down the router before installing or removing the SIM/UICC card. Never insert or remove the SIM/UICC card while the router is in use.

2. Attach the included antennas to the back of the router, screwing them in clockwise. Arrange them so that they point upward.
3. Connect the power adapter to the socket on the back panel of your DWR-978. Plug the other end of the power adapter into a wall outlet or power strip. Make sure the power button is in the "On" position.
 - a. The Power LED will light up to indicate that power is being supplied to the router and the router is turned on.
 - b. The LEDs on the front panel will flash on and off as the DWR-978 Mobile Router performs initialization and Internet connection processes.
 - c. After a few moments, if a connection has been established, the following LEDs will turn solid green: Power, Network, WiFi (if enabled), LAN (if connected), WAN (if connected), and Signal Strength.

Note: By default, the DWR-978 uses the mobile network as the sole Internet connection. If you wish to use your mobile connection as a backup to a wired connection, or you wish to use a wired connection exclusively, you must use the Optional Advanced Setup procedure.

4. Connect via Wi-Fi using the SSID and password printed on the bottom of the router, or through Ethernet via one of the LAN ports on the back of your DWR-978.

Wireless Installation Considerations

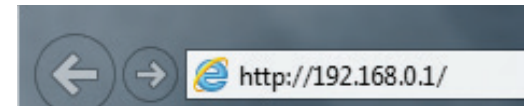
The DWR-978 can be accessed using a wireless connection from anywhere within the operating range of your wireless network. Keep in mind that the quantity, thickness, and location of walls, ceilings, or other objects that the wireless signals must pass through may limit the range of the wireless signal. Ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or office. The key to maximizing the wireless range is to follow these basic guidelines:

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

Configuration

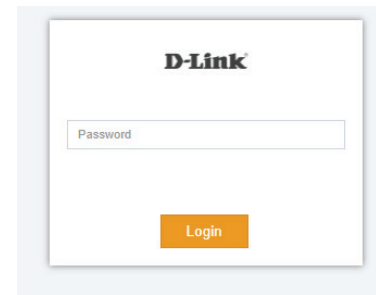
Getting Started

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



To log in to the configuration utility, the default password is left blank.

Note: If you get a **Page Cannot be Displayed** error, please refer to the **Troubleshooting** section for assistance.



Once you have successfully logged in, you will see the **Home** page. On this page you can view information about your Internet connection, the wireless/LAN status, and system information.

At the top of the page is a menu. Clicking on one of these icons will take you to the appropriate configuration section.

System Status

Operating Time	7Days 1:33:12
Firmware Version	01.00.0023
Mode	Router mode
Current Time	2020/09/23 16:02:54

Client Lists

Vendor	IP Address	IPv6 Address	MAC Address	Lease Time(s)
08831PCWIN10	192.168.0.50		6C:4B:90:BF:C3:21	90727

LAN Status

IPv4 Network	Go to settings
MAC Address	EC:AD:E0:4A:8B:42
IP Address	192.168.0.1
Subnet Mask	255.255.255.0

IPv6 Network [Go to settings](#)

Wireless Status

Main 2.4G	Go to settings
SSID	D-Link_DWR-978_8B42_2.4GHz
Channel	1
Password	WPA2 AES
SSID Broadcast	EC:AD:E0:4A:8B:44
Client Number	0

Main 5G [Go to settings](#)

Guest 2.4G [Go to settings](#)

Guest 5G [Go to settings](#)

Settings

SMS Device

On the Short Messages Settings page you can organize, send and receive Short Message Service (SMS) messages by selecting between a Setup, Inbox and Drafts tab. These messages can either be saved to the router's internal memory or on the SIM/UICC card itself.

Send Message

Mobile: Enter the mobile number to send the message to.

Content: Enter the content you wish to send.

Click **Send** to send your message.

Inbox

Mobile: (Optional) Specify a password.

Content: (Optional) Should you have specified a password above, verify your password one more time.

Time: Specify number to dial.

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.

The screenshot displays the 'SMS Device' configuration page. At the top, there is a breadcrumb trail: 'Settings > SMS > Device'. Below this, the 'SMS Device' section includes a label 'SMS Device Description' and a corresponding text input field. The 'Send Message' section contains two input fields: 'Mobile' and 'Content', followed by an orange 'Send' button. Below the 'Send Message' section is a table titled 'Inbox' with columns for 'Mobile', 'Content', and 'Time'. The table is currently empty, displaying 'No data in table.' and 'Previous' and 'Next' navigation buttons. At the bottom of the page, there are 'Submit' and 'Cancel' buttons.

SMS (U)SIM

Send Message

Mobile: Enter the mobile number to send the message to.

Content: Enter the content you wish to send.

Click **Send** to send your message.

Inbox

Mobile: (Optional) Specify a password.

Content: (Optional) Should you have specified a password above, verify your password one more time.

Time: Specify number to dial.

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.

The screenshot displays the 'SMS (U)SIM' configuration page. At the top, there is a breadcrumb trail: 'Settings > SMS > (U)SIM'. Below this, the page title is 'SMS (U)SIM', followed by a field for 'SMS (U)SIM Description'. The main section is titled 'Send Message' and contains two input fields: 'Mobile' and 'Content'. A blue 'Send' button is positioned below these fields. To the left, a sidebar menu lists 'Inbox', 'Outbox', and 'Drafts', each with a blue icon. The 'Inbox' section is currently active, showing a table with columns for 'Mobile', 'Content', and 'Time'. The table is empty, displaying 'No data in table.' at the bottom. At the bottom right of the 'Inbox' section, there are 'Previous' and 'Next' navigation buttons. At the very bottom of the page, there are 'Submit' and 'Cancel' buttons.

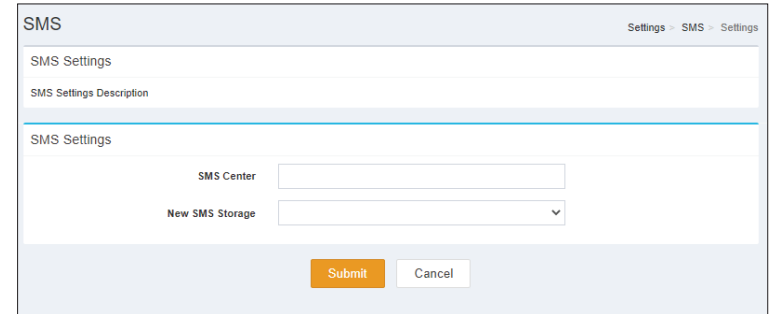
SMS Settings

SMS Settings

SMS center: Enter the name of the SMS center.

New SMS Storage: Select the new SMS storage.

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.



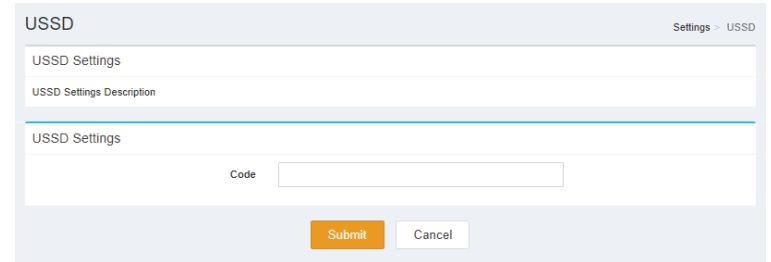
The screenshot shows a web interface for configuring SMS settings. At the top, there is a breadcrumb trail: "Settings > SMS > Settings". Below this, the page title is "SMS Settings". Underneath, there is a section labeled "SMS Settings Description". The main configuration area is titled "SMS Settings" and contains two input fields: "SMS Center" (a text box) and "New SMS Storage" (a dropdown menu). At the bottom of the form, there are two buttons: "Submit" (orange) and "Cancel" (white).

USSD

USSD Settings

Code: Enter USSD code.

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.



The screenshot shows a web interface for configuring USSD settings. At the top, the page title is "USSD" and the breadcrumb is "Settings > USSD". Below the title, there are two main sections. The first section, titled "USSD Settings", contains a text input field for "USSD Settings Description". The second section, also titled "USSD Settings", contains a text input field for "Code". At the bottom of the form, there are two buttons: "Submit" (orange) and "Cancel" (white).

Main Wi-Fi

Primary 2.4G Advanced Setting

Status: Indicates whether the connection is **Enabled** or **Disabled**.

Wi-Fi Name (SSID): Indicates the name of the connection.

Password: Indicates the password of the connection.

Security Mode: Indicates the Security Mode of the connection. By default **WPA/WPA2-Personal** is selected, you may also select **None**.

802.11 Mode: Indicates the wireless mode of the connection. By default **Mixed 802.11b/g/n** is selected, you may also select **Mixed 802.11g/n** or **802.11n only**.

Wi-Fi Channel: Select the Wi-Fi channel. By default **Auto** is selected, you can choose manually between channel **1-13**.

Transmission Power: Indicates the Transmission Power of the connection. By default **High** is selected, you may also select **Medium** or **Low**.

Channel Width: Indicates the Channel Width of the connection. By default **Auto** **20/40 MHz** is selected, you may also select **20 MHz**.

Coexistence: Indicates whether Coexistence is **Enabled** or **Disabled**.

Visibility Status: Indicates whether the Wi-Fi network is **Visible** or **Invisible**.

Schedule: Indicates whether the Wi-Fi network is part of a schedule. Click on **Schedule** to access the schedule menu "Schedule" on page 29.

The screenshot shows the 'Wireless' configuration page. At the top, there is a breadcrumb trail: 'Settings > Wireless > Main Wi-Fi'. Below this, there is a 'Wireless description' field. The main content is divided into two sections: 'Primary 2.4G' and 'Primary 5G'. Each section has a 'Status' checkbox (checked), a 'Wi-Fi Name (SSID)' text input field, and a 'Password' text input field. In the 'Primary 2.4G' section, the SSID is 'D-Link_DWR-978_8B42_2.4GHz'. In the 'Primary 5G' section, the SSID is 'D-Link_DWR-978_8B42_5GHz'. Each section also has an 'Advanced Setting...' link. At the bottom of the page, there are 'Submit' and 'Cancel' buttons.

This screenshot shows the 'Primary 2.4G' advanced settings page. It includes the following fields and options:

- Status:** Checked checkbox.
- Wi-Fi Name (SSID):** Text input field containing 'D-Link_DWR-978_8B42_2.4GHz'.
- Password:** Text input field containing 'fcaaa63914'.
- Security Mode:** Dropdown menu set to 'WPA/WPA2-Personal'.
- 802.11 Mode:** Dropdown menu set to 'Mixed 802.11b/g/n'.
- Wi-Fi Channel:** Dropdown menu set to 'Auto'.
- Transmission Power:** Dropdown menu set to 'High'.
- Channel Width:** Dropdown menu set to 'Auto 20/40 MHz'.
- Coexistence:** Checked checkbox.
- Visibility Status:** Dropdown menu set to 'Visible'.
- Schedule:** Dropdown menu set to 'Always'.

An 'Advanced Setting...' link is located to the right of the Security Mode dropdown.

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.

Primary 5G Advanced Setting

Status: Indicates whether the connection is **Enabled** or **Disabled**.

Wi-Fi Name (SSID): Indicates the name of the connection.

Password: Indicates the password of the connection.

Security Mode: Indicates the Security Mode of the connection. By default **WPA/WPA2-Personal** is selected, you may also select **None**.

Wi-Fi Channel: Select the Wi-Fi channel. By default **Auto** is selected, you can choose manually between channel **1-13**.

Transmission Power: Indicates the Transmission Power of the connection. By default **High** is selected, you may also select **Medium** or **Low**.

Channel Width: Indicates the Channel Width of the connection. By default **Auto** **20/40 MHz** is selected, you may also select **20 MHz**.

Visibility Status: Indicates whether the Wi-Fi network is **Visible** or **Invisible**.

Schedule: Indicates whether the Wi-Fi network is part of a schedule. Click on **Schedule** to access the schedule menu "Schedule" on page 29.

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.

Primary 5G

Status

Wi-Fi Name (SSID)

Password

Security Mode

Wi-Fi Channel

Transmission Power

Channel Width

Visibility Status

Schedule

Advanced Setting...

Guest Wi-Fi

Guest 2.4G/5G Advanced Setting

Status: Indicates whether the connection is **Enabled** or **Disabled**.

Wi-Fi Name (SSID): Indicates the name of the connection.

Password: Indicates the password of the connection.

Security Mode: Indicates the Security Mode of the connection. By default **WPA/WPA2-Personal** is selected, you may also select **None**.

Visibility Status: Indicates whether the Wi-Fi network is **Visible** or **Invisible**.

Schedule: Indicates whether the Wi-Fi network is part of a schedule. Click on **Schedule** to access the schedule menu "Schedule" on page 29.

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.

The screenshot displays the 'Wireless' configuration page for Guest Wi-Fi. It is divided into two sections: 'Guest 2.4G' and 'Guest 5G'. Each section has a 'Status' toggle switch, a 'Wi-Fi Name (SSID)' text input field, and a 'Password' text input field. Below these fields are 'Advanced Setting...' links. At the bottom of the page, there are 'Submit' and 'Cancel' buttons. Below the main configuration area, there are three dropdown menus: 'Security Mode' (set to WPA/WPA2-Personal), 'Visibility Status' (set to Visible), and 'Schedule' (set to Always).

Network (LAN)

Network Settings

LAN IP Address: Enter the IP address you want to use for the router. The default IP address is 192.168.0.1. If you change the IP address, you will need to enter the new IP address in your browser to get into the configuration utility.

Subnet Mask: Enter the subnet mask of the router. The default subnet mask is 255.255.255.0

Local Domain Name: Enter the local domain name for your network. (Optional)

Enable DNS Relay: Disable to transfer the DNS server information from your ISP to your computers. If enabled, your computers will use the router for a DNS server.

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.

DHCP Server

Status: Indicates whether DHCP server is **Enabled** or **Disabled**.

DHCP IP Address Range: Enter the DHCP IP Address Range of the router. The default is **192.168.0.50 - 192.168.0.199**.

DHCP Lease Time: The lease time determines the period that the host retains the assigned IP addresses before the IP addresses change.

Always Broadcast: Indicates whether Always Broadcast is **Enabled** or **Disabled**.

Advanced Settings

UPnP: Indicates whether UPnP is **Enabled** or **Disabled**.

IPv4 Multicast Streams: Indicates whether IPv4 Multicast Streams is **Enabled** or **Disabled**.

IPv6 Multicast Streams: Indicates whether DHCP server is **Enabled** or **Disabled**.

Network (WAN) IPv4

Dual WAN Settings

Dual WAN: Indicates whether Dual WAN is **Enabled** or **Disabled**.

Primary WAN: Select connection type of the primary WAN.

Secondary WAN: Select connection type of the Secondary WAN.

Fail Over: Indicates whether Fail Over is **Enabled** or **Disabled**.

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.

The screenshot displays the 'Network (WAN) IPv4' configuration interface. At the top, the breadcrumb path is 'Settings > Network (WAN) > IPv4'. The page is divided into two main sections: 'Dual WAN Settings' and 'Network Settings'.
Dual WAN Settings: This section includes a 'Dual WAN' checkbox which is checked. Below it are two dropdown menus: 'Primary WAN' set to 'LTE' and 'Secondary WAN' set to 'Ethernet WAN'. A 'Fail Over' checkbox is also checked. At the bottom of this section are 'Submit' and 'Cancel' buttons.
Network Settings: This section contains various configuration options: 'Internet Connection' with two dropdowns both set to 'LTE'; 'Dial-Up Profile' set to 'Auto-Detection'; 'Prefer Service Type' set to 'Auto Mode'; 'PDP Type' set to 'Auto'; 'Pin Code' as an empty text field; 'Reconnect Mode' set to 'Auto'; 'Primary DNS Server' and 'Secondary DNS Server' as empty text fields; 'Keep Alive' set to 'Enabled'; 'Ping IP Address' set to '8.8.8.8'; and 'Ping Interval' set to '60'. At the bottom of this section are 'Submit' and 'Cancel' buttons.

Network Settings

- Internet Connection:** Select the Internet Connection type of the IPv4 WAN.
- Dial-Up Profile:** Select the Dial-Up Profile to be **Auto-Detection** or **Manual**.
- PDP Type:** Select the PDP Type to be **Auto, IPv4** or **IPv6**.
- Pin Code:** Indicates the Pin Code of the connection.
- Reconnect Mode:** Select Reconnect Mode to be **Auto** or **Manual**.
- Primary DNS Server:** Enter the primary DNS IP address that will be assigned to DHCP clients.
- Secondary DNS Server:** Enter the secondary DNS IP address that will be assigned to DHCP clients.
- Keep Alive:** Indicates whether Keep Alive is **Enabled** or **Disabled**.
- Ping IP Address:** Enter Ping IP Address to ping test the connection.
- Ping Interval:** Indicates the Ping Interval.

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.

Network (WAN) IPv6

Local Connectivity Only IPv6 Advanced Setting

Internet Connection: Specify the type of IPv6 connection your ISP uses. Choose from **Local Connectivity Only, Static IPv6, Auto Configuration (Stateless/DHCPv6), PPPoE, 6rd.**

IPv6 ULA Settings

Enable ULA: Indicates whether Enable ULA is **Enabled** or **Disabled**.

Current IPv6 ULA Settings

Current ULA Prefix: Indicates the Current ULA Prefix.

LAN IPv6 ULA: Indicates the LAN IPv6 ULA.

Network (WAN) Settings > Network (WAN) > IPv6

IPv6

IPv6 description

Internet Connection Local Connectivity Only ▼ Advanced Setting...

IPv6 ULA Settings

Enable ULA

Current IPv6 ULA Settings

Current ULA Prefix	Not Available
LAN IPv6 ULA	Not Available

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.

Static IPv6 Advanced Setting

Internet Connection: Specify the type of IPv6 connection your ISP uses. Choose from **Local Connectivity Only, Static IPv6, Auto Configuration (Stateless/DHCPv6), PPPoE, 6rd.**

Use Link-Local Address: Indicates whether Use Link-Local Address is **Enabled** or **Disabled**.

IPv6 Address: If Use Link-Local Address is **Disabled**, enter the IPv6 Address.

Subnet Prefix Length: If Use Link-Local Address is **Disabled**, enter the Subnet Prefix Length.

Default Gateway: Enter the Default Gateway used by this connection.

IPv6 DNS Settings

Primary DNS Server: Enter the primary DNS IP address that will be assigned to DHCP clients.

Secondary DNS Server: Enter the secondary DNS IP address that will be assigned to DHCP clients.

LAN IPv6 Address Settings

LAN IPv6 Address: Specify the LAN IPv6 Address.

LAN IPv6 Link-Local Address: Indicates the LAN IPv6 Link-Local Address.

Network (WAN) Settings > Network (WAN) > IPv6

IPv6

IPv6 description

Internet Connection: Static IPv6

Use Link-Local Address:

IPv6 Address:

Subnet Prefix Length: 64

Default Gateway:

IPv6 DNS Settings

Primary DNS Server:

Secondary DNS Server:

LAN IPv6 Address Settings

LAN IPv6 Address: /64

LAN IPv6 Link-Local Address: FE80::EAD:E0FF:FE4A:8B42

Advanced Setting...

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment:

Autoconfiguration Type: SLAAC+Stateless DHCP

Router Advertisement Lifetime: 60 minutes (1-150)

Submit Cancel

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: Indicates whether Enable Automatic IPv6 Address Assignment is **Enabled** or **Disabled**.

Autoconfiguration Type: Specify the Autoconfiguration Type. Choose from **SLAAC+RDNSS**, **SLAAC+Stateless DHCP** or **Stateful DHCPv6**.

Router Advertisement Lifetime: Specify the Router Advertisement Lifetime from **minutes (1-150)**.

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.

Autoconfiguration (SLAAC/DHCPv6) Advanced Setting

Internet Connection: Specify the type of IPv6 connection your ISP uses. Choose from **Local Connectivity Only, Static IPv6, Auto Configuration (Stateless/DHCPv6), PPPoE, 6rd.**

IPv6 DNS Settings

DNS Type: Specify the DNS Type. Choose from **Obtain a DNS server address automatically** or **Use the following DNS address.**

Primary DNS Server: Enter the primary DNS IP address that will be assigned to DHCP clients.

Secondary DNS Server: Enter the secondary DNS IP address that will be assigned to DHCP clients.

LAN IPv6 Address Settings

Enable DHCP-PD: Indicates whether Use Link-Local Address is **Enabled** or **Disabled**.

LAN IPv6 Link-Local Address: Indicates the LAN IPv6 Link-Local Address.

The screenshot displays the 'Network (WAN) IPv6' configuration page. The page is divided into several sections:

- IPv6:** Includes an 'IPv6 description' field.
- Internet Connection:** A dropdown menu is set to 'Static IPv6'.
- Use Link-Local Address:** A checkbox is checked.
- IPv6 Address:** An empty text input field.
- Subnet Prefix Length:** A text input field containing '64'.
- Default Gateway:** An empty text input field.
- IPv6 DNS Settings:**
 - Primary DNS Server:** An empty text input field.
 - Secondary DNS Server:** An empty text input field.
- LAN IPv6 Address Settings:**
 - LAN IPv6 Address:** An empty text input field followed by '/64'.
 - LAN IPv6 Link-Local Address:** A text input field containing 'FE80::E0AD:E0FF:FE4A:8B42'.
- Address Autoconfiguration Settings:**
 - Enable Automatic IPv6 Address Assignment:** A checked checkbox.
 - Autoconfiguration Type:** A dropdown menu set to 'SLAAC+Stateless DHCP'.
 - Router Advertisement Lifetime:** A text input field containing '60' with the unit 'minutes (1-150)'.

At the bottom right, there are 'Submit' and 'Cancel' buttons.

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: Indicates whether Enable Automatic IPv6 Address Assignment is **Enabled** or **Disabled**.

Enable Automatic DHCP-PD in LAN: Indicates whether Enable Automatic DHCP-PD in LAN is **Enabled** or **Disabled**.

Autoconfiguration Type: Specify the Autoconfiguration Type. Choose from **SLAAC+RDNSS**, **SLAAC+Stateless DHCP** or **Stateful DHCPv6**.

Router Advertisement Lifetime: Specify the Router Advertisement Lifetime from **minutes (1-150)**.

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.

PPPoE Advanced Setting

Internet Connection: Specify the type of IPv6 connection your ISP uses. Choose from **Local Connectivity Only, Static IPv6, Auto Configuration (Stateless/DHCPv6), PPPoE, 6rd.**

PPPoE Session: Select the PPPoE Session to create or edit.

Username: Specify the Username.

Password: Specify the Password.

Address Mode: Specify the Reconnect Mode. Choose from **Dynamic IP** or **Static IP.**

Service Name: Specify the Service Name.

Reconnect Mode: Specify the Reconnect Mode. Choose from **Always on** or **Manual.**

MTU: Specify the MTU in bytes.

IPv6 DNS Settings

DNS Type: Specify the DNS Type. Choose from **Obtain a DNS server address automatically** or **Use the following DNS address.**

Primary DNS Server: Enter the primary DNS IP address that will be assigned to DHCP clients.

Secondary DNS Server: Enter the secondary DNS IP address that will be assigned to DHCP clients.

Network (WAN) Settings > Network (WAN) > IPv6

IPv6

IPv6 description

Internet Connection: PPPoE

PPPoE Session: Create a new session

Username:

Password:

Address Mode: Dynamic IP

Service Name:

Reconnect Mode: Always on

MTU: 1402 bytes

IPv6 DNS Settings

DNS Type: Obtain a DNS server address automatically

LAN IPv6 Address Settings

Enable DHCP-PD:

LAN IPv6 Link-Local Address: FE80::EAD:E0FF:FE4A:8B42

[Advanced Setting...](#)

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment:

Enable Automatic DHCP-PD in LAN:

Autoconfiguration Type: SLAAC+Stateless DHCP

Router Advertisement Lifetime: 60 minutes (1-150)

LAN IPv6 Address Settings

Enable DHCP-PD: Indicates whether Use Link-Local Address is **Enabled** or **Disabled**.

LAN IPv6 Link-Local Address: Indicates the LAN IPv6 Link-Local Address.

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: Indicates whether Enable Automatic IPv6 Address Assignment is **Enabled** or **Disabled**.

Enable Automatic DHCP-PD in LAN: Indicates whether Enable Automatic DHCP-PD in LAN is **Enabled** or **Disabled**.

Autoconfiguration Type: Specify the Autoconfiguration Type. Choose from **SLAAC+RDNSS**, **SLAAC+Stateless DHCP** or **Stateful DHCPv6**.

Router Advertisement Lifetime: Specify the Router Advertisement Lifetime from **minutes (1-150)**.

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.

6rd Advanced Setting

Internet Connection: Specify the type of IPv6 connection your ISP uses. Choose from **Local Connectivity Only, Static IPv6, Auto Configuration (Stateless/DHCPv6), PPPoE, 6rd.**

Assign IPv6 Prefix: Indicates the Assign IPv6 Prefix.

IPv6 DNS Settings

DNS Type: Specify the DNS Type. Choose from **Obtain a DNS server address automatically** or **Use the following DNS address.**

Primary DNS Server: Enter the primary DNS IP address that will be assigned to DHCP clients.

Secondary DNS Server: Enter the secondary DNS IP address that will be assigned to DHCP clients.

LAN IPv6 Address Settings

Enable DHCP-PD: Indicates whether Use Link-Local Address is **Enabled** or **Disabled**.

LAN IPv6 Link-Local Address: Indicates the LAN IPv6 Link-Local Address.

Network (WAN) Settings > Network (WAN) > IPv6

IPv6

IPv6 description

Internet Connection: 6rd

Assign IPv6 Prefix: Not Available

IPv6 DNS Settings

Primary DNS Server

Secondary DNS Server

6RD Manual Configuration

Enable Hub and Spoke Mode:

6rd Configuration: 6rd DHCPv4 Option

LAN IPv6 Address Settings

LAN IPv6 Address

LAN IPv6 Link-Local Address: FE80::EAD:E0FF:FE4A:8B42

[Advanced Setting...](#)

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment:

Autoconfiguration Type: SLAAC+Stateless DHCP

Router Advertisement Lifetime: 00 minutes (1-150)

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: Indicates whether Enable Automatic IPv6 Address Assignment is **Enabled** or **Disabled**.

Autoconfiguration Type: Specify the Autoconfiguration Type. Choose from **SLAAC+RDNSS**, **SLAAC+Stateless DHCP** or **Stateful DHCPv6**.

Router Advertisement Lifetime: Specify the Router Advertisement Lifetime from **minutes (1-150)**.

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.

Management

System Time

Time Configuration

Time Zone: Specify Time Zone of your device.

Time: Specify Time of your device.

Automatic Time Configuration

Update Time Using an NTP Server: Indicates whether Update Time Using an NTP Server is **Enabled** or **Disabled**.

NTP Server: Specify NTP Server of your device.

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.

The screenshot shows a web interface for configuring system time. At the top, there is a breadcrumb trail: "Management > Time & Schedule > System Time". Below this, there are two input fields for "System Time". The main configuration area is divided into two sections: "Time Configuration" and "Automatic Time Configuration". In the "Time Configuration" section, there is a "Time Zone" dropdown menu set to "Asia/Taipei" and a "Time" field showing "2020/09/24 11:10:54 AM". In the "Automatic Time Configuration" section, there is a checkbox for "Update Time Using an NTP Server" which is checked, and an "NTP Server" text input field containing "time.nist.gov". At the bottom right of the form, there are two buttons: "Submit" (orange) and "Cancel" (white).

Schedule

Name Indicates the name of the schedule.

Schedule: Indicates the schedule.

Edit: When a schedule is selected, click this button to edit the schedule.

Delete: When a schedule is selected, click this button to delete the schedule.

Click **Save** to save your settings, or **Cancel** to revert to your previous settings.

Create New Rule

Name Enter a name for your new schedule

Schedule: Drag and select the times that you wish to be included as part of the new schedule.

Click **Save** to save your settings, or **Cancel** to revert to your previous settings.

The screenshot shows the 'Time & Schedule' management interface. At the top, there are navigation links: 'Management', 'Time & Schedule', and 'Schedule'. Below this, there is a search bar labeled 'Schedule'. A section titled 'Schedule: (Max Limit: 10)' contains an 'Add Rule' button. Below that is a table with columns for 'Name', 'Schedule', 'Edit', and 'Delete'. The table is currently empty, displaying 'No data in table.' At the bottom of the interface, there are 'Save' and 'Cancel' buttons.

The screenshot shows the 'Create New Rule' interface. At the top, there are navigation links: 'Management', 'Time & Schedule', and 'Schedule'. Below this, there is a search bar labeled 'Schedule'. A section titled 'Create New Rule' contains a 'Name' input field. Below the input field is a grid for selecting times. The grid has columns for days of the week (Sun, Mon, Tue, Wed, Thu, Fri, Sat) and rows for times from 00:00 to 24:00 in one-hour increments. At the bottom of the interface, there are 'Done' and 'Cancel' buttons.

System Log

System Log: Click this button to download the system log.

SysLog Settings

Enable Logging to Syslog Server: Indicates whether Enable Logging to Syslog Server is **Enabled** or **Disabled**.

E-mail Settings

Enable E-mail Notification: Indicates whether Enable E-mail Notification is **Enabled** or **Disabled**.

E-mail Log When Full or On Schedule

Send When Log Full: Indicates whether Send When Log Full is **Enabled** or **Disabled**.

Send on Schedule: Indicates whether Send on Schedule is **Enabled** or **Disabled**.

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.

The screenshot shows a web interface for configuring system logs. At the top, there is a breadcrumb trail: "Management > System Log". Below this, the page title "System Log" is displayed. A "Check System Log" button is visible. The configuration is organized into sections: "SysLog Settings" with a toggle for "Enable Logging to Syslog Server" (disabled), "E-mail Settings" with a toggle for "Enable E-mail Notification" (disabled), and "E-mail Log When Full or On Schedule" with toggles for "Send When Log Full" (disabled) and "Send on Schedule" (disabled). At the bottom, there are "Submit" and "Cancel" buttons.

System & Reboot

System

Factory Default: Click this button to reset this device back to Factory Default.

Save Configuration: Click this button to Save Configuration

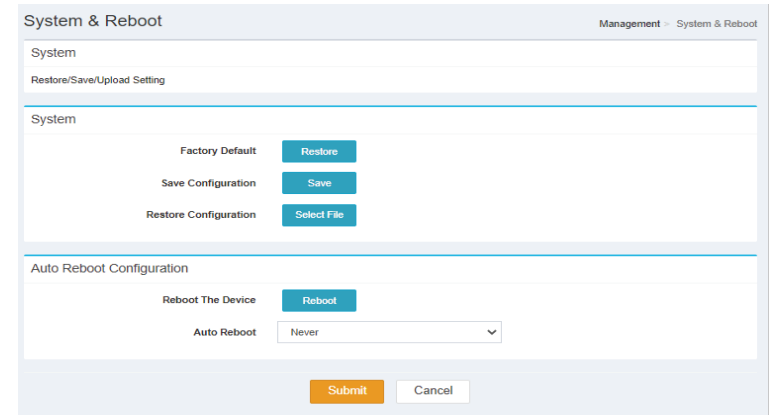
Restore Configuration: Click this button to select File to Restore Configuration

Auto Reboot Configuration

Reboot The Device: Click this button to Reboot The Device

Auto Reboot Specify an Auto Reboot time of your device.

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.



Administration

Administration Advanced Settings

Password: Specify Administration Password of your device.

Advanced Settings

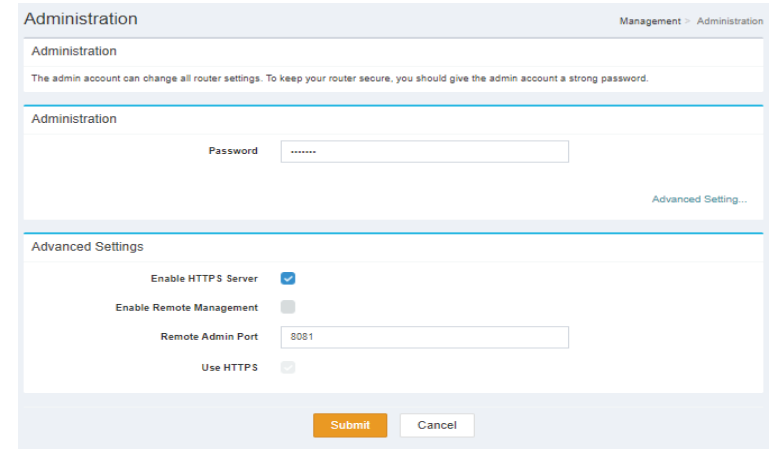
Enable HTTPS Server: Indicates whether Enable HTTPS Server is **Enabled** or **Disabled**.

Enable Remote Management: Indicates whether Enable Remote Management is **Enabled** or **Disabled**.

Remote Admin Port: Specify Remote Admin Port of your device

Use HTTPS: Indicates whether Use HTTPS is **Enabled** or **Disabled**.

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.



The screenshot shows the 'Administration' settings page. At the top, there is a breadcrumb 'Management > Administration'. Below that, the 'Administration' section contains a warning: 'The admin account can change all router settings. To keep your router secure, you should give the admin account a strong password.' This is followed by a 'Password' field with a masked input (dots). A link for 'Advanced Setting...' is visible. The 'Advanced Settings' section includes three options: 'Enable HTTPS Server' (checked), 'Enable Remote Management' (unchecked), and 'Remote Admin Port' (set to 8081). The 'Use HTTPS' option is unchecked. At the bottom, there are 'Submit' and 'Cancel' buttons.

Firmware Upgrade

Firmware Over The Air

Latest Firmware Version: Indicates The Latest Firmware Version.

Firmware Upgrade: Click Check to begin the Firmware Over the Air (FOTA) upgrade process. Note that this requires an active Internet connection.

Manual Firmware Upgrade

Current Firmware Version: Indicates the Current Firmware Version.

Upgrade Firmware: After you have downloaded a new firmware, click Select File to locate the firmware on your computer, then click Apply to start the firmware upgrade.

Module Firmware Upgrade

Current Firmware Version: Indicates the Current Firmware Version.

Upgrade Firmware: After you have downloaded a new firmware, click Select File to locate the firmware on your computer, then click Apply to start the firmware upgrade.

The screenshot displays the 'Firmware Upgrade' management page. It features three main sections:

- Firmware Over The Air:** Shows the 'Latest Firmware Version' and a 'Check' button to initiate the upgrade.
- Manual Firmware Upgrade:** Shows the 'Current Firmware Version' and a 'Select File' button to upload a new firmware file.
- Module Firmware Upgrade:** Shows the 'Current Firmware Version' and a 'Select File' button to upload a new firmware file.

Statistics

Internet/ LAN/ Wi-Fi 2.4GHz/ Wi-Fi 5GHz

Sent Displays the Sent Statistics of the connection.

Received Displays the Received Statistics of the connection.

Total Packets: Displays the Total Packets Statistics of the connection.

Total KByte(s): Displays the Total KByte(s) Statistics of the connection.

Click **Clear** to clear all Statistics.

Statistics Management > Statistics

Statistics

Internet			LAN		
	Total Packets	Total KByte(s)		Total Packets	Total KByte(s)
Sent	8,426,417	1,070,632	Sent	9,093,555	41,007,126
Received	38,094,778	43,259,435	Received	8,340,632	922,777

Wi-Fi 2.4GHz			Wi-Fi 5GHz		
	Total Packets	Total KByte(s)		Total Packets	Total KByte(s)
Sent	0	0	Sent	285,941	378,118
Received	0	0	Received	62,168	7,304

[Clear](#)

Advanced Settings

Firewall Settings

DMZ Settings

Enable DMZ: Indicates whether Enable DMZ is **Enabled** or **Disabled**.

Firewall Advanced Settings

Enable SPI IPv4: Indicates whether Enable SPI IPv4 is **Enabled** or **Disabled**.

Enable Anti-spoof Checking: Indicates whether Enable Anti-spoof Checking is **Enabled** or **Disabled**.

IPv6 Simple Security: Indicates whether IPv6 Simple Security is **Enabled** or **Disabled**.

IPv6 Ingress Filtering: Indicates whether IPv6 Ingress Filtering is **Enabled** or **Disabled**.

Application Level Gateway (ALG) Configuration

PPTP: Indicates whether PPTP is **Enabled** or **Disabled**.

IPSec (VPN): Indicates whether IPSec (VPN) is **Enabled** or **Disabled**.

RTSP: Indicates whether RTSP is **Enabled** or **Disabled**.

SIP: Indicates whether SIP is **Enabled** or **Disabled**.

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.

The screenshot shows the Firewall Settings page with the following configuration:

- DMZ Settings:** Enable DMZ
- Firewall Settings:**
 - Enable SPI IPv4
 - Enable Anti-spoof Checking
 - IPv6 Simple Security
 - IPv6 Ingress Filtering
- Application Level Gateway (ALG) Configuration:**
 - PPTP
 - IPSec (VPN)
 - RTSP
 - SIP

Buttons: **Submit** (orange), **Cancel** (white)

IPv4 Rules

Status

Status: Select **Turn IPv4 Filtering OFF**, **Turn IPv4 Filtering ON and ALLOW rules listed**, or **Turn IPv4 Filtering ON and DENY rules listed**.

IPv4 Rules Table: (Max Limit: 24)

Name Indicates the name of the schedule.

Schedule: Indicates the schedule.

Edit: When a schedule is selected, click this button to edit the schedule.

Delete: When a schedule is selected, click this button to delete the schedule.

Firewall Advanced Settings > Firewall > IPv4 Rules

Firewall Settings

Firewall Settings description

Status

Turn IPv4 Filtering OFF

IPv4 Rules Table: (Max Limit: 24) Add Rule

Name	Schedule	Edit	Delete
No data in table.			

Save Cancel

Create New Rule

Name Indicates the name of the New Rule.

Source IP Address Range: Indicates the source IP or IP range to which the rule will apply.

Destination IP Address Range: Indicates the Destination IP or IP range to which the rule will apply.

Protocol & Port Range: Indicates protocol types and port range affected by the filter.

Schedule: Indicates whether the Wi-Fi network is part of a schedule. Click on **Schedule** to access the schedule menu "Schedule" on page 29.

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.

The screenshot shows the 'Firewall' configuration page with the breadcrumb 'Advanced Settings > Firewall > IPv4 Rules'. Below the 'Firewall Settings' section, there is a 'Create New Rule' form. The form includes the following fields:

- Name:** A text input field.
- Source IP Address Range:** A dropdown menu with 'WAN' selected and an adjacent text input field.
- Destination IP Address Range:** A dropdown menu with 'LAN' selected and an adjacent text input field.
- Protocol & Port Range:** A dropdown menu with 'TCP' selected and an adjacent text input field.
- Schedule:** A dropdown menu with 'Always Enable' selected.

At the bottom of the form, there are two buttons: 'Done' (highlighted in orange) and 'Cancel'.

IPv6 Rules

Status

Status: Select **Turn IPv6 Filtering OFF**, **Turn IPv6 Filtering ON and ALLOW rules listed**, or **Turn IPv6 Filtering ON and DENY rules listed**.

IPv6 Rules Table: (Max Limit: 24)

Name Indicates the name of the schedule.

Schedule: Indicates the schedule.

Edit: When a schedule is selected, click this button to edit the schedule.

Delete: When a schedule is selected, click this button to delete the schedule.

Firewall Advanced Settings > Firewall > IPv6 Rules

Firewall Settings

Firewall Settings description

Status

Turn IPv6 Filtering OFF

IPv6 Rules Table: (Max Limit: 24) Add Rule

Name	Schedule	Edit	Delete
No data in table.			

Save Cancel

Create New Rule

Name Indicates the name of the New Rule.

Source IP Address Range: Indicates the source IP or IP range to which the rule will apply.

Destination IP Address Range: Indicates the Destination IP or IP range to which the rule will apply.

Protocol & Port Range: Indicates protocol types and port range affected by the filter.

Schedule: Indicates whether the Wi-Fi network is part of a schedule. Click on **Schedule** to access the schedule menu "Schedule" on page 29.

Click **Submit** to save your settings, or **Cancel** to revert to your previous settings.

The screenshot shows the 'Firewall' configuration page with the 'Create New Rule' form. The breadcrumb trail is 'Advanced Settings > Firewall > IPv6 Rules'. The 'Firewall Settings' section includes a 'Firewall Settings description' field. The 'Create New Rule' form contains the following fields:

- Name:** A text input field.
- Source IP Address:** A dropdown menu with 'WAN' selected and an adjacent text input field.
- Destination IP Address:** A dropdown menu with 'LAN' selected and an adjacent text input field.
- Protocol & Port Range:** A dropdown menu with 'TCP' selected and an adjacent text input field.
- Schedule:** A dropdown menu with 'Always Enable' selected.

At the bottom of the form are two buttons: 'Done' (orange) and 'Cancel' (white).

Port Forwarding

Port Forwarding Table: (Max Limit: 24)

Status: Indicates the Status.

Name: Indicates the Name.

Local IP: Indicates the Local IP.

TCP Port: Indicates the TCP Port.

UDP Port: Indicates the UDP Port.

Schedule: Indicates the schedule.

Edit: When a schedule is selected, click this button to edit the schedule.

Delete: When a schedule is selected, click this button to delete the schedule.

Click **Save** to save your settings, or **Cancel** to revert to your previous settings.

The screenshot shows the 'Port Forwarding' configuration page. At the top right, it says 'Advanced Settings > Port Forwarding'. Below the title, there are two input fields for 'Port Forwarding'. A section titled 'Port Forwarding Table: (Max Limit: 24)' contains an 'Add Rule' button. Below this is a table with columns: Status, Name, Local IP, TCP Port, UDP Port, Schedule, Edit, and Delete. The table is currently empty, displaying 'No data in table.' At the bottom of the page, there are 'Save' and 'Cancel' buttons.

Create New Rule

Name Indicates the name of the New Rule.

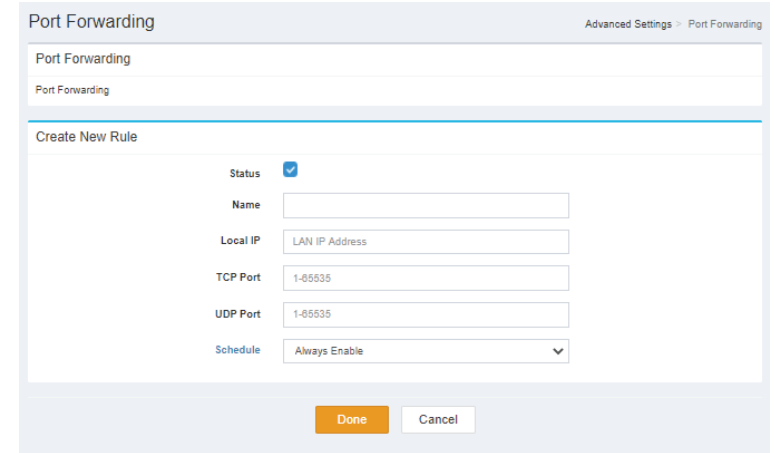
Local IP: Indicates the Local IP of the New Rule.

TCP Port: Indicates the TCP Port of the New Rule.

UDP Port: Indicates the UDP Port of the New Rule.

Schedule: Indicates whether the Wi-Fi network is part of a schedule. Click on **Schedule** to access the schedule menu “Schedule” on page 29.

Click **Done** to save your settings, or **Cancel** to revert to your previous settings.



The screenshot displays the 'Port Forwarding' configuration page. At the top right, it shows 'Advanced Settings > Port Forwarding'. Below this, there is a breadcrumb trail 'Port Forwarding' and a sub-section 'Create New Rule'. The form includes the following fields:

- Status:** A checked checkbox.
- Name:** An empty text input field.
- Local IP:** A text input field containing 'LAN IP Address'.
- TCP Port:** A text input field containing '1-65535'.
- UDP Port:** A text input field containing '1-65535'.
- Schedule:** A dropdown menu currently set to 'Always Enable'.

At the bottom of the form, there are two buttons: an orange 'Done' button and a white 'Cancel' button.

Virtual Server

Virtual Server Table: (Max Limit: 24)

Status: Indicates the Status.

Name: Indicates the Name.

Local IP: Indicates the Local IP.

Protocol: Indicates the Protocol type.

External Port: Indicates the External Port.

Internal Port: Indicates the Internal Port.

Schedule: Indicates the schedule.

Edit: When a schedule is selected, click this button to edit the schedule.

Delete: When a schedule is selected, click this button to delete the schedule.

Click **Save** to save your settings, or **Cancel** to revert to your previous settings.

Status	Name	Local IP	Protocol	External Port	Internal Port	Schedule	Edit	Delete
No data in table.								

Create New Rule

Status: Indicates the status of the New Rule

Name: Indicates the name and specify which Application Name of the New Rule

Local IP: Indicates the Local IP and specify which Computer Name of the New Rule

Protocol: Indicates the Protocol type of the New Rule.

External Port: Indicates the External Port of the New Rule.

Internal Port: Indicates the Internal Port of the New Rule.

Schedule: Indicates whether the Wi-Fi network is part of a schedule. Click on **Schedule** to access the schedule menu "Schedule" on page 29.

Click **Done** to save your settings, or **Cancel** to revert to your previous settings.

The screenshot shows the 'Virtual Server' configuration interface. At the top, there is a breadcrumb trail: 'Advanced Settings > Virtual Server'. Below this, there is a section for 'Virtual Server' with a 'Virtual Server description' field. The main part of the interface is titled 'Create New Rule' and contains the following fields and controls:

- Status:** A checkbox that is currently checked.
- Name:** A text input field followed by a dropdown menu showing '<< Application Name'.
- Local IP:** A text input field followed by a dropdown menu showing '<< Computer Name'.
- Protocol:** A dropdown menu currently set to 'TCP'.
- External Port:** A text input field.
- Internal Port:** A text input field.
- Schedule:** A dropdown menu currently set to 'Always Enable'.

At the bottom right of the 'Create New Rule' section, there are two buttons: 'Done' (highlighted in orange) and 'Cancel'.

Website Filter

Status

Status: Select **DENY clients access to ONLY these sites** or **ALLOW clients access to ONLY these sites**.

Website Filter Table: (Max Limit: 24)

Website URL/ Domain: Indicates the Website URL/Domain.

Delete: Delete the selected Website URL/Domain.

Add Rule: Specify the website to be filtered.

Click **Save** to save your settings, or **Cancel** to revert to your previous settings.

Website Filter Advanced Settings > Website Filter

Website Filter

Website Filter description

Status

DENY clients access to ONLY these sites

Website Filter Table: (Max Limit: 24)

Website URL/Domain	Delete
No data in table.	

Add Rule

Save Cancel

Static Routes IPv4

Static Routes Table: (Max Limit: 24)

Status: Indicates the Status.

Name: Indicates the name.

Destination Network: Indicates the Destination Network.

Mask: Indicates the Mask.

Gateway: Indicates the Gateway.

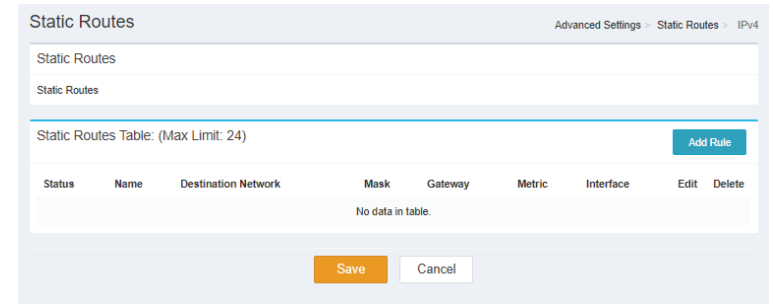
Metric: Indicates the Metric.

Interface: Indicates the Interface.

Edit: Delete the selected Static Route.

Delete: Delete the selected Static Route.

Click **Save** to save your settings, or **Cancel** to revert to your previous settings.



The screenshot shows a web interface for configuring static routes. At the top right, there is a breadcrumb trail: "Advanced Settings > Static Routes > IPv4". Below this, the page title "Static Routes" is displayed. A search bar labeled "Static Routes" is present. The main content area features a table titled "Static Routes Table: (Max Limit: 24)" with an "Add Rule" button on the right. The table has columns for "Status", "Name", "Destination Network", "Mask", "Gateway", "Metric", "Interface", "Edit", and "Delete". The table is currently empty, with the text "No data in table." centered below the header. At the bottom of the interface, there are "Save" and "Cancel" buttons.

Create New Rule

Status: Indicates the status of the New Rule

Name Indicates the name and specify which Application Name of the New Rule

Destination Network Indicates the Destination Network of the New Rule

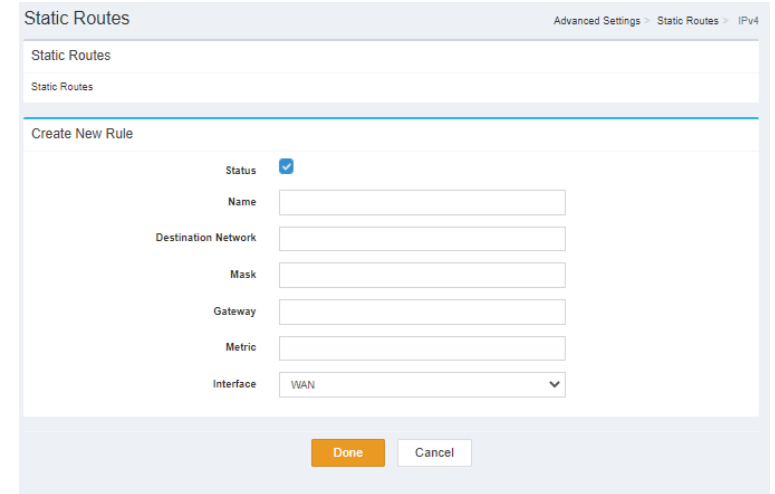
Mask: Indicates the Mask of the New Rule.

Gateway: Indicates the Gateway of the New Rule.

Metric: Indicates the Metric of the New Rule.

Interface: Indicates the Interface of the New Rule.

Click **Done** to save your settings, or **Cancel** to revert to your previous settings.



The screenshot shows the 'Static Routes' configuration page. At the top, there is a breadcrumb trail: 'Advanced Settings > Static Routes > IPv4'. Below this, the page title is 'Static Routes'. The main content area is titled 'Create New Rule' and contains the following fields:

- Status:** A checkbox that is checked.
- Name:** A text input field.
- Destination Network:** A text input field.
- Mask:** A text input field.
- Gateway:** A text input field.
- Metric:** A text input field.
- Interface:** A dropdown menu with 'WAN' selected.

At the bottom of the form, there are two buttons: 'Done' (orange) and 'Cancel' (white).

Static Routes IPv6

Static Routes Table: (Max Limit: 24)

Status: Indicates the Status.

Name: Indicates the name.

Destination Network: Indicates the Destination Network.

Mask: Indicates the Mask.

Gateway: Indicates the Gateway.

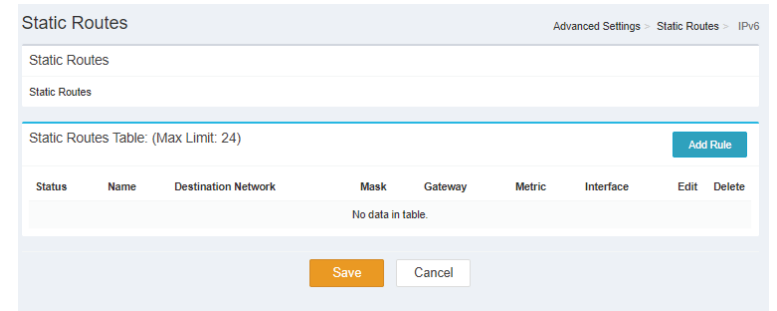
Metric: Indicates the Metric.

Interface: Indicates the Interface.

Edit: Delete the selected Static Route.

Delete: Delete the selected Static Route.

Click **Save** to save your settings, or **Cancel** to revert to your previous settings.



Create New Rule

Status: Indicates the status of the New Rule

Name Indicates the name and specify which Application Name of the New Rule

Destination Network Indicates the Destination Network of the New Rule

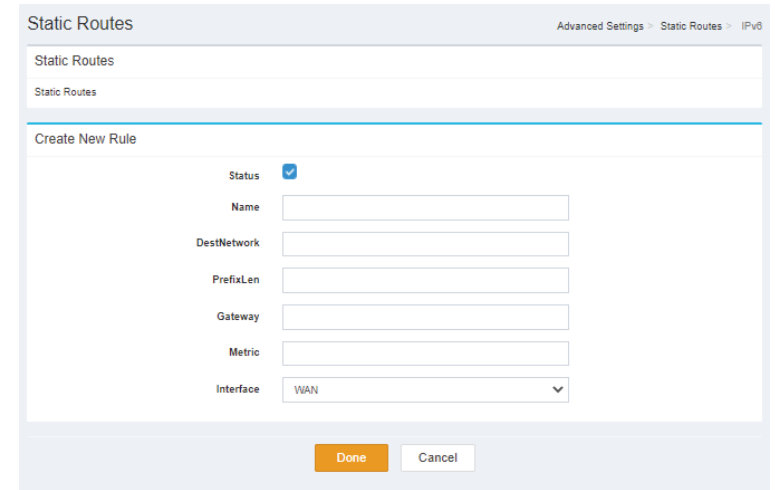
PrefixLen Indicates the PrefixLen of the New Rule.

Gateway: Indicates the Gateway of the New Rule.

Metric: Indicates the Metric of the New Rule.

Interface: Indicates the Interface of the New Rule.

Click **Done** to save your settings, or **Cancel** to revert to your previous settings.



The screenshot shows the 'Static Routes' configuration page. At the top right, there is a breadcrumb trail: 'Advanced Settings > Static Routes > IPv6'. Below this, the page title is 'Static Routes'. A sub-section titled 'Create New Rule' contains the following fields:

- Status:** A checked checkbox.
- Name:** An empty text input field.
- DestNetwork:** An empty text input field.
- PrefixLen:** An empty text input field.
- Gateway:** An empty text input field.
- Metric:** An empty text input field.
- Interface:** A dropdown menu with 'WAN' selected.

At the bottom right of the form, there are two buttons: 'Done' (orange) and 'Cancel' (white).

Dynamic DNS

Dynamic DNS

Enable Dynamic DNS: Indicates whether Enable Dynamic DNS is **Enabled** or **Disabled**.

Status: Indicates the status.

IPv6 Dynamic DNS Table: (Max Limit: 10)

Status: Indicates the Status.

Host Name: Indicates the Host Name.

IPv6 Address: Indicates the IPv6 Address.

Edit: Delete the selected IPv6 Dynamic DNS.

Delete: Delete the selected IPv6 Dynamic DNS.

Click **Save** to save your settings, or **Cancel** to revert to your previous settings.

The screenshot shows the 'Dynamic DNS' configuration page. At the top right, it says 'Advanced Settings > Dynamic DNS'. Below the title, there are two input fields: 'Dynamic DNS' and 'Dynamic DNS description'. A section titled 'Dynamic DNS' contains a toggle switch for 'Enable Dynamic DNS' which is currently turned off, and a 'Status' indicator showing 'Disconnected'. Below this is a table titled 'IPv6 Dynamic DNS Table: (Max Limit: 10)' with an 'Add Rule' button. The table has columns for 'Status', 'Host Name', 'IPv6 Address', 'Edit', and 'Delete', but it is currently empty with the text 'No data in table.' at the bottom. At the very bottom of the page are 'Save' and 'Cancel' buttons.

Create New Rule

Status: Indicates the status of the New Rule.

Host Name: Indicates the Host Name of the New Rule.

IPv6 Address: Indicates the IPv6 Address and specify which Computer Name of the New Rule.

Click **Done** to save your settings, or **Cancel** to revert to your previous settings.

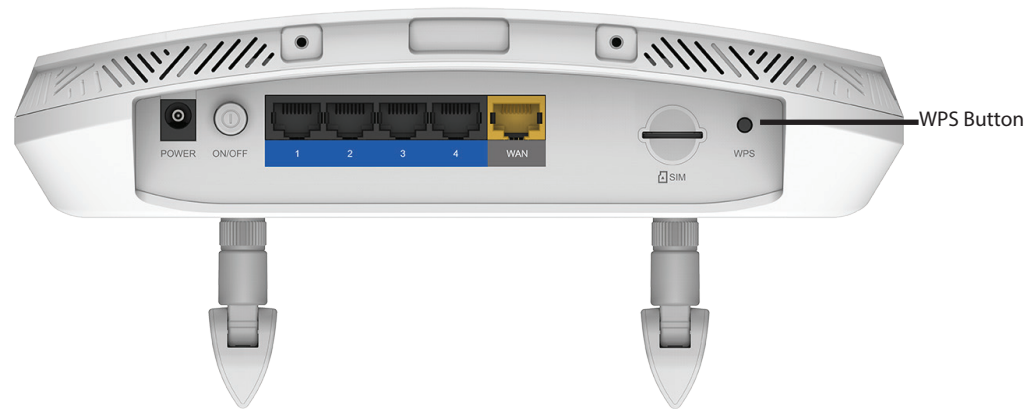
The screenshot shows the 'Dynamic DNS' configuration page. At the top right, there are links for 'Advanced Settings' and 'Dynamic DNS'. The page has several input fields: 'Dynamic DNS' (title), 'Dynamic DNS description', and another 'Dynamic DNS' field. Below these is a toggle for 'Enable Dynamic DNS' which is currently turned off, and a 'Status' indicator showing 'Disconnected'. There is an 'Add Rule' button on the right. Below that is a table titled 'IPv6 Dynamic DNS Table: (Max Limit: 10)'. The table has columns for 'Status', 'Host Name', 'IPv6 Address', 'Edit', and 'Delete'. The table is currently empty, with the text 'No data in table.' centered below the header. At the bottom of the page, there are 'Save' and 'Cancel' buttons.

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 will have a WPS button (or a software utility with WPS) that you can press to connect to the DWR-978 router. Please refer to your user manual for the wireless device you want to connect to make sure you understand how to enable WPS. Once you know, follow the steps below:

Step 1 - Press the WPS button on the DWR-978 for about 6 seconds. The WLAN LED on the front will start to blink.



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

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

Connecting to a Wireless Network

Windows® 10

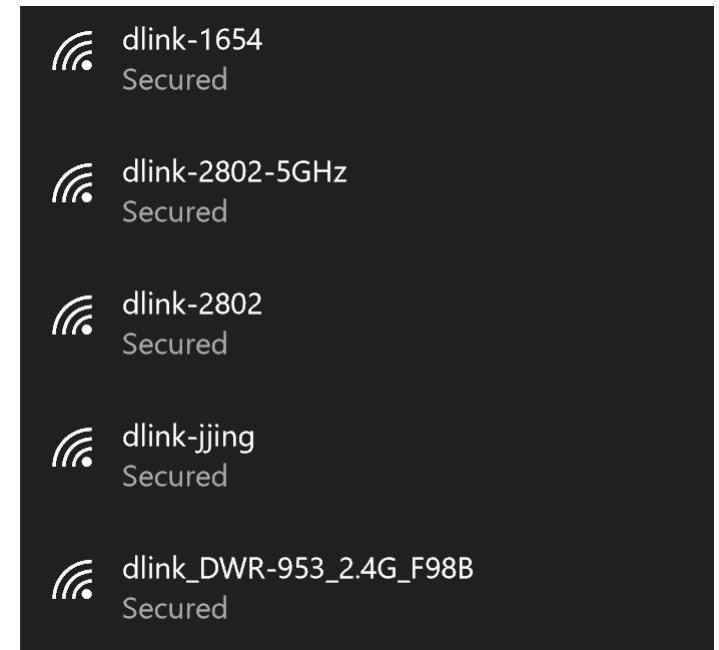
To connect to a wireless network using Windows 10, you will need to know the wireless network name (SSID) and Wi-Fi password (security key) of the device you are connecting to.

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



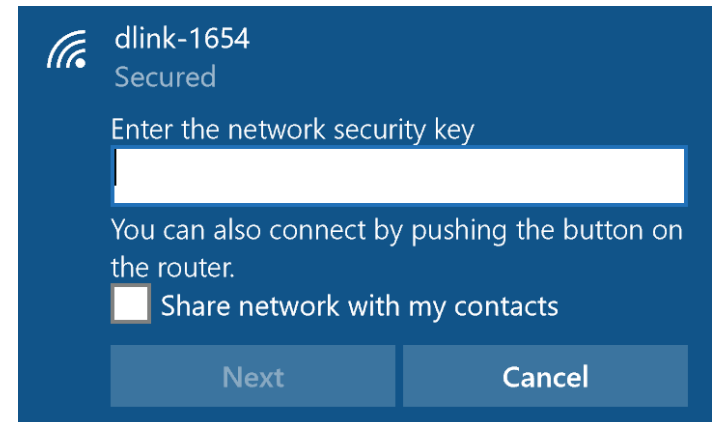
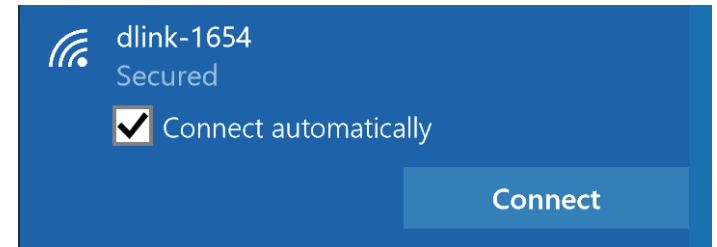
To connect to the network, click **Connect**.

To automatically connect when your device is in range, click the **Connect Automatically** check box. Your computer will now automatically connect to this wireless network whenever it is detected.

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.

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

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.



Windows® 8

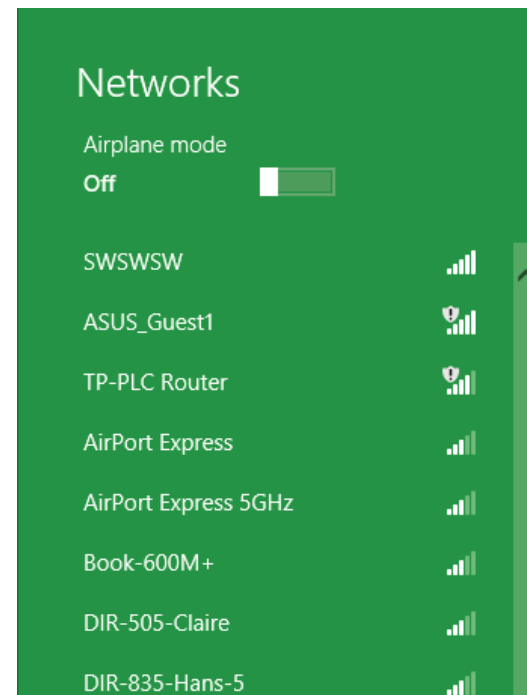
WPA/WPA2

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

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



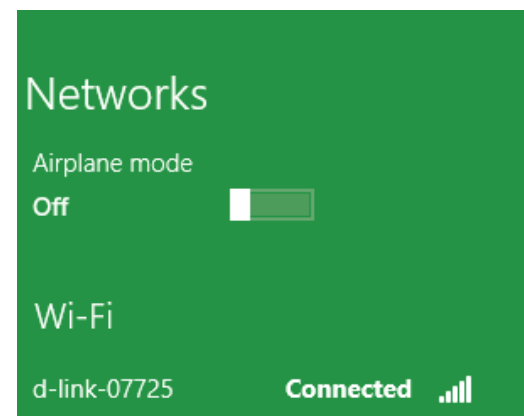
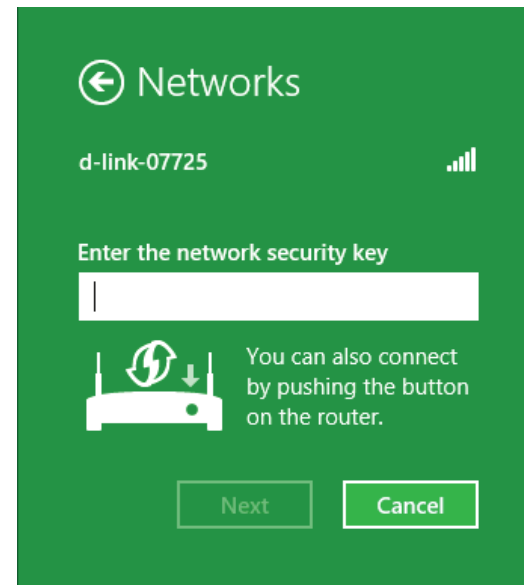
Clicking on this icon will display a list of wireless networks that are within connecting proximity of your computer. Select the desired network by clicking on the network name.



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

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

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

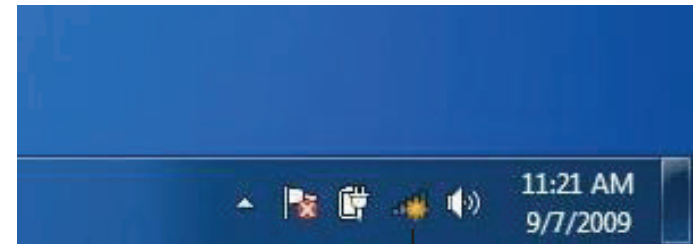


Windows® 7

WPA/WPA2

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

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



Wireless Icon

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

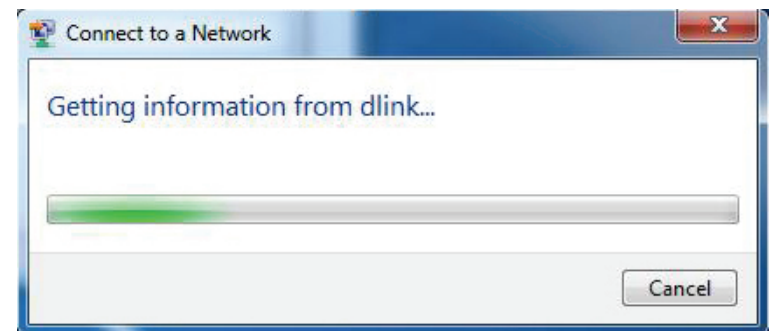


3. Highlight the wireless connection with Wi-Fi name (SSID) you would like to connect to and click the **Connect** button.

If you get a good signal but cannot access the Internet, check your TCP/IP settings for your wireless adapter. Refer to **Networking Basics** on page 78 for more information.

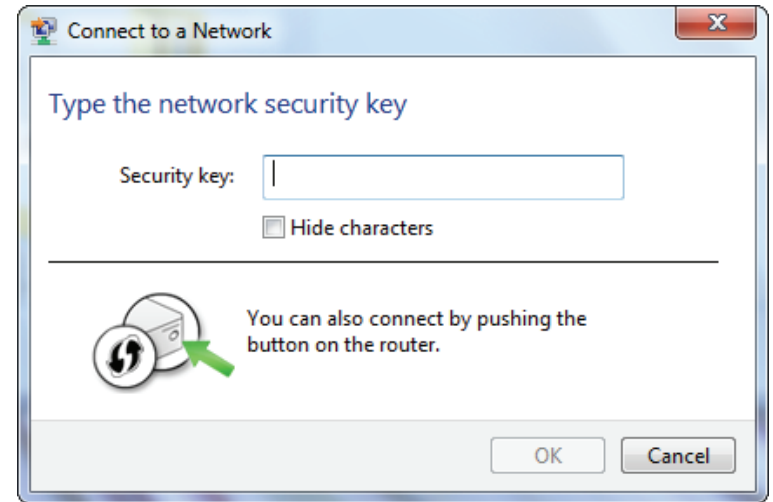


4. The following window appears while your computer tries to connect to the router.



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

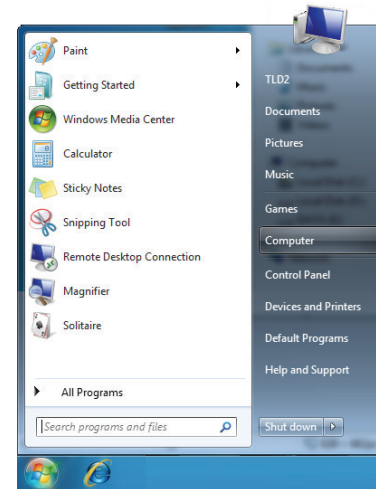
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as the one on the wireless router.



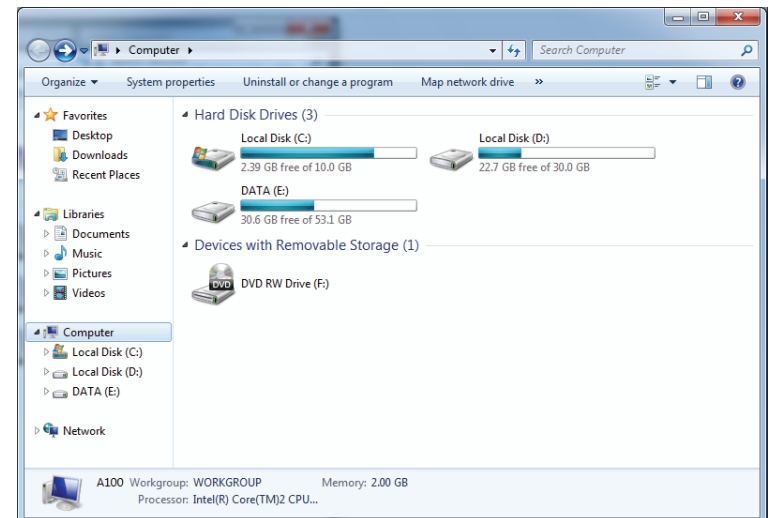
WPS

The WPS feature of the DWR-978 can be configured using Windows® 7. Carry out the following steps to use Windows® 7 to configure the WPS feature:

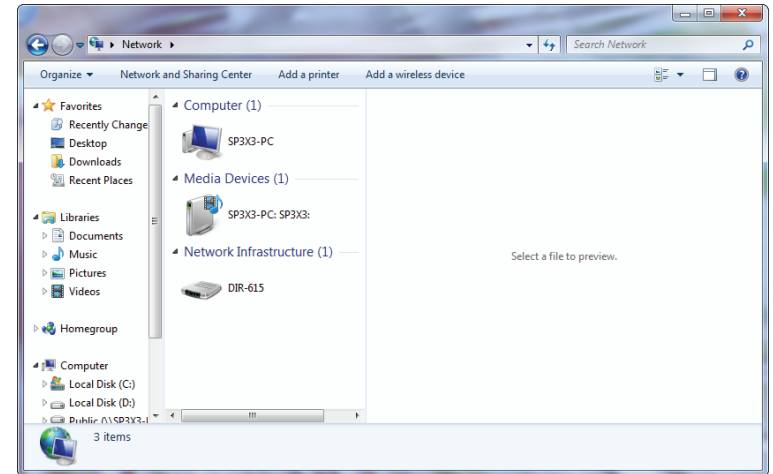
1. Click the **Start** button and select **Computer** from the Start menu.



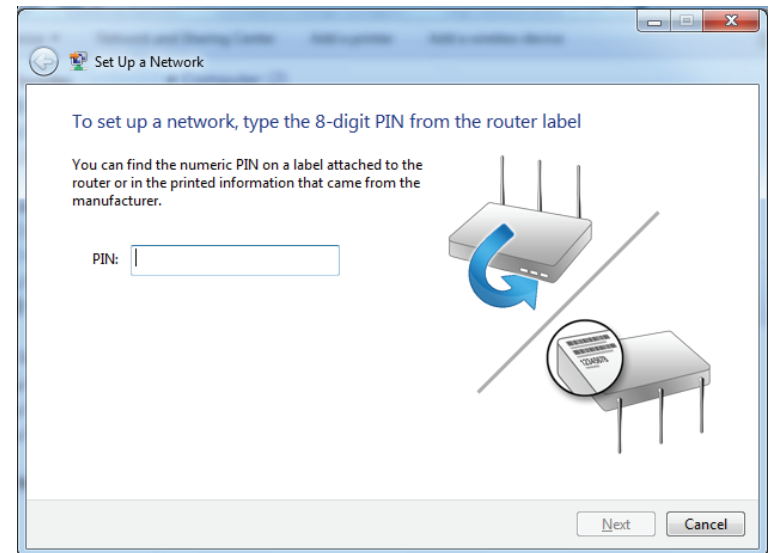
2. Click **Network** on the left side.



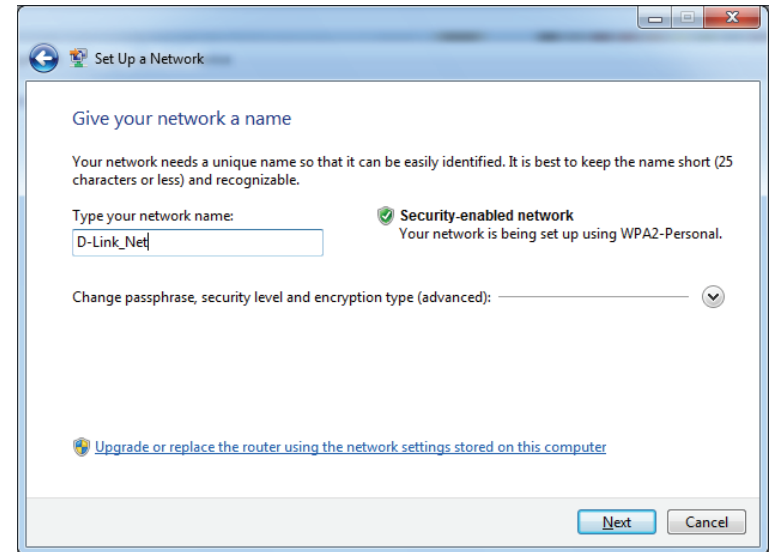
3. Double-click the DWR-978.




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

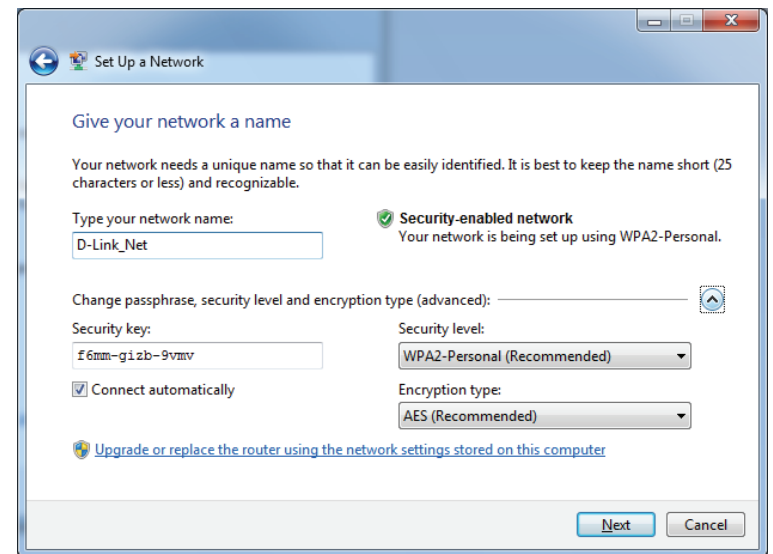


5. Type a name to identify the network.



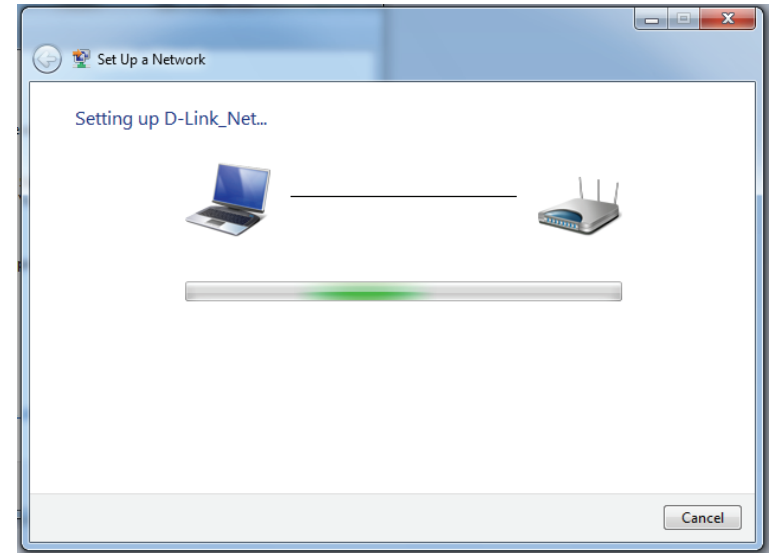
6. To configure advanced settings, click the  icon.

Click **Next** to continue.



7. The following window appears while the router is being configured.

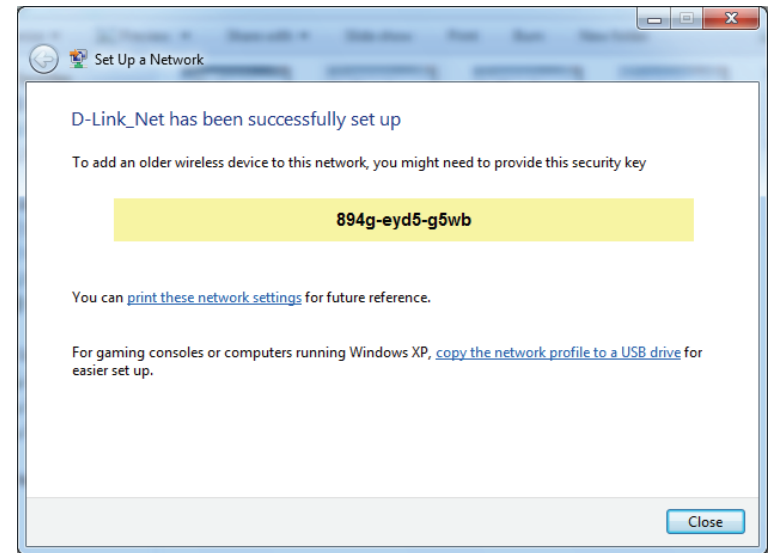
Wait for the configuration to complete.



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

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

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



Windows Vista®

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

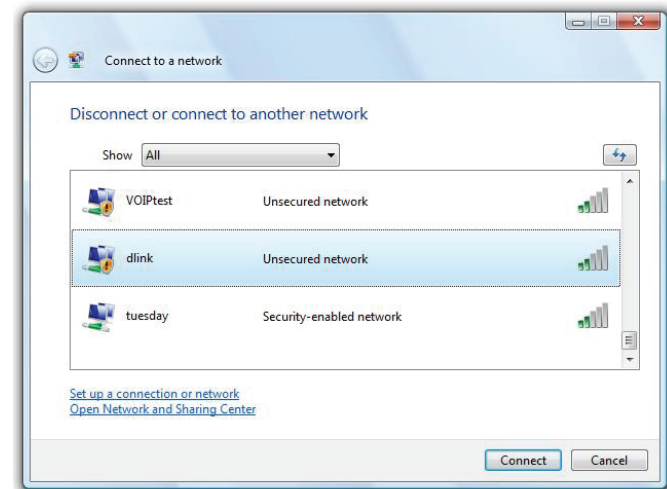
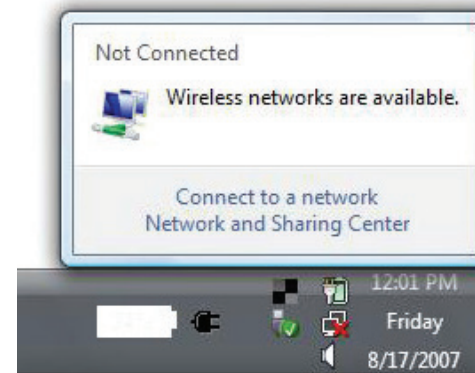
If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

or

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

The utility will display any available wireless networks in your area. Click on a network (displayed using the SSID) and click the **Connect** button.

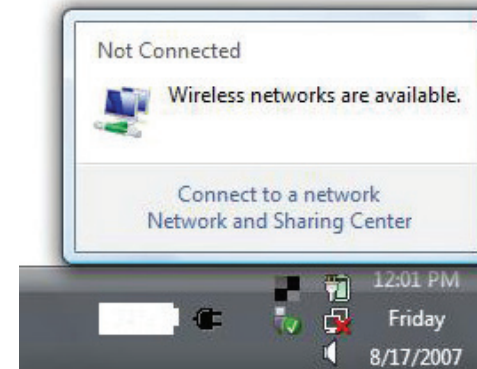
If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



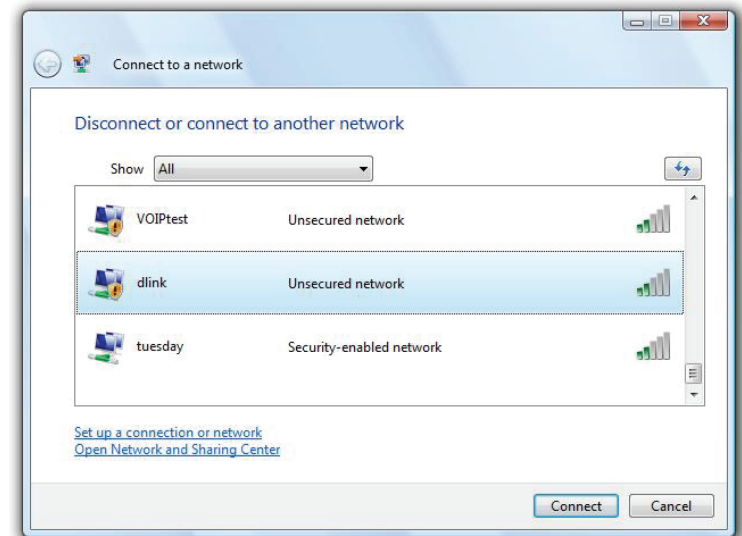
WPA/WPA2

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

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

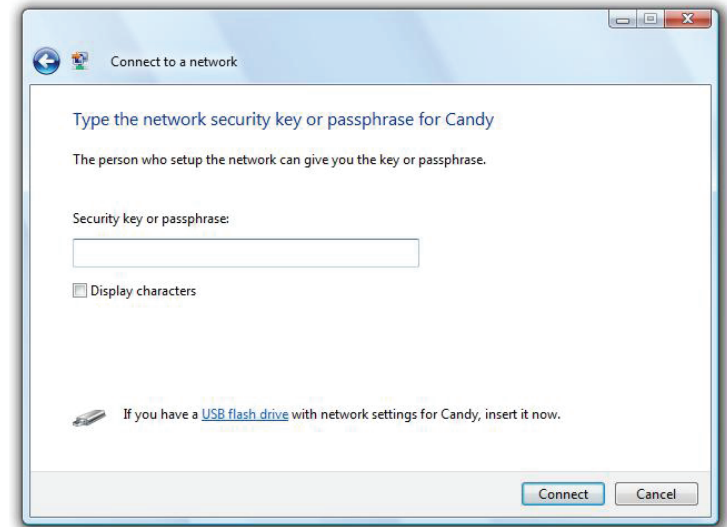


2. Highlight the Wi-Fi name (SSID) you would like to connect to and click **Connect**.



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

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



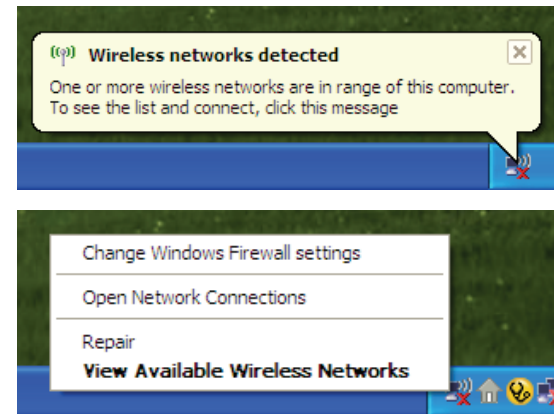
Windows® XP

Windows® XP users may use the built-in wireless utility (Zero Configuration Utility). The following instructions are for Service Pack 2 users. If you are using another company's utility, please refer to the user manual of your wireless adapter for help with connecting to a wireless network. Most utilities will have a "site survey" option similar to the Windows® XP utility as seen below.

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

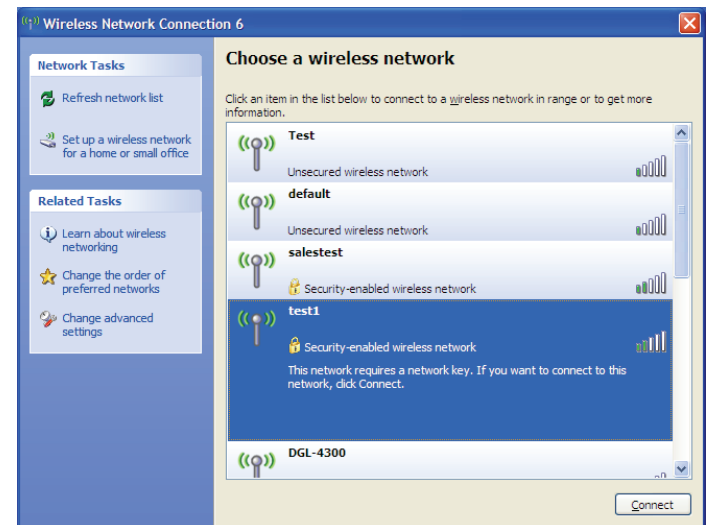
or

Right-click on the wireless computer icon in your system tray (lower-right corner next to the time). Select **View Available Wireless Networks**.



The utility will display any available wireless networks in your area. Click on a Wi-Fi network (displayed using the SSID) and click the **Connect** button.

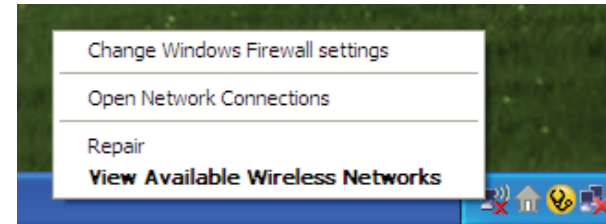
If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



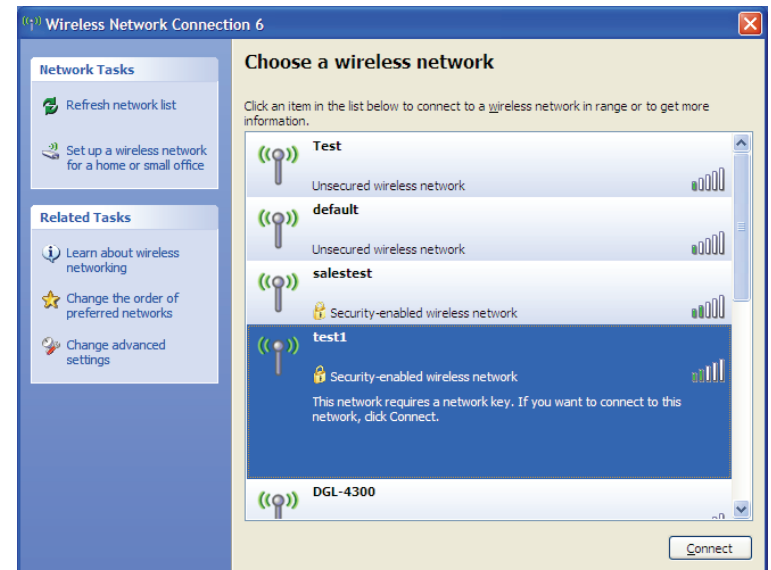
WPA/WPA2

It is recommended to enable WPA 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 WPA key being used.

1. Open the Windows® XP Wireless Utility by right-clicking on the wireless computer icon in your system tray (lower-right corner of screen). Select **View Available Wireless Networks**.

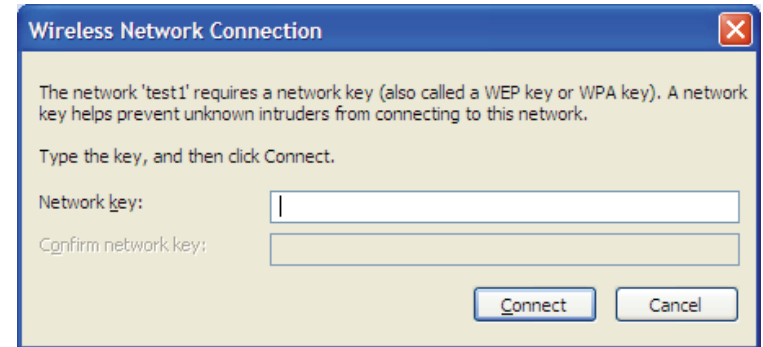


2. Highlight the Wi-Fi network (SSID) you would like to connect to and click **Connect**.



3. The **Wireless Network Connection** box will appear. Enter the WPA-PSK Wi-Fi password and click **Connect**.

It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the WPA-PSK settings are correct. The Wi-Fi password must be exactly the same as on the wireless router.



Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DWR-978. Read the following descriptions if you are having problems. The examples below are illustrated in Windows® XP. If you have a different operating system, the screenshots on your computer will look similar to these examples.

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

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

- Make sure you have an updated Java-enabled web browser. We recommend the following:
 - Microsoft Internet Explorer® 7 or higher
 - Mozilla Firefox 3.5 or higher
 - Google™ Chrome 8 or higher
 - Apple Safari 4 or higher
- Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable, or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on.
- Disable any Internet security software running on the computer. Software firewalls such as ZoneAlarm, BlackICE, Sygate, Norton Personal Firewall, and Windows® XP firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.

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

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

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

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

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

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

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

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

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

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

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

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, let's say that 1452 was the proper value, the actual MTU size would be 1480, which is the optimum for the network we're working with ($1452+28=1480$).

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

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

- Navigate to the configuration page.
- To change the MTU, enter the number in the MTU field and click **Apply** to save your settings.
- Test your email. If changing the MTU does not resolve the problem, continue changing the MTU in increments of ten.

Wireless Basics

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

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

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

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

What is Wireless?

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

Why D-Link Wireless?

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

How does wireless work?

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

Wireless Local Area Network (WLAN)

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

Wireless Personal Area Network (WPAN)

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

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

Who uses wireless?

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

Home Uses/Benefits

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

Small Office and Home Office Uses/Benefits

- Stay on top of everything at home as you would at office
- Remotely access your office network from home
- Share Internet connection and printer with multiple computers
- No need to dedicate office space

Where is wireless used?

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

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

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

Tips

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

Centralize your router or access point

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

Eliminate interference

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

Security

Turn on WPA2 encryption on the router to help protect your wireless network from unwanted access by people close to your network, such as neighbors or intruders. Refer to the product manual for detailed information on how to set it up.

Wireless Modes

There are basically two modes of networking:

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

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

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

Networking Basics

Check your IP address

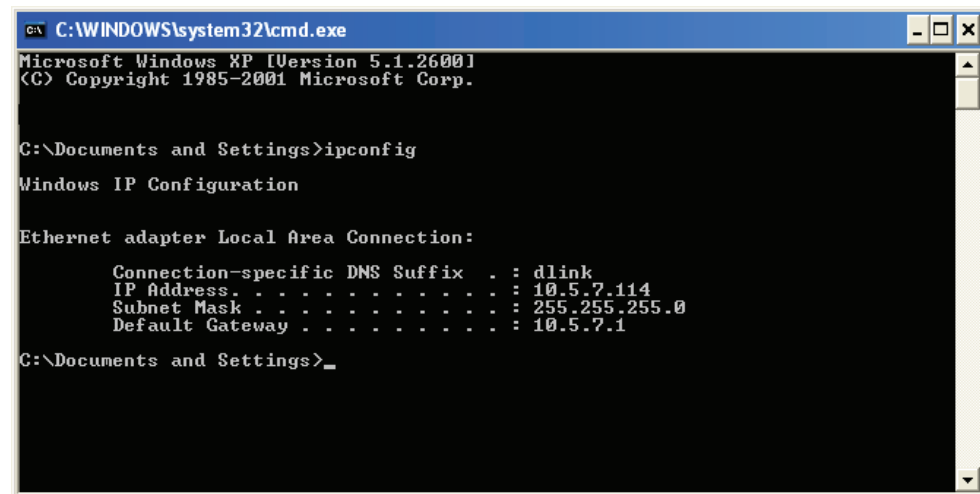
After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

Click on **Start > Run**. In the run box type **cmd** and click **OK**. (Windows® 10/7/Vista® users type **cmd** in the **Start Search** box.)

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

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

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



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

C:\Documents and Settings>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

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

C:\Documents and Settings>_
```

Statically Assign an IP address

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

- Step 1**
- Windows® 7 - Click on **Start > Control Panel > Network and Internet > Network and Sharing Center.**
 - Windows Vista® - Click on **Start > Control Panel > Network and Internet > Network and Sharing Center > Manage Network Connections.**
 - Windows® XP - Click on **Start > Control Panel > Network Connections.**
 - Windows® 2000 - From the desktop, right-click **My Network Places > Properties.**

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

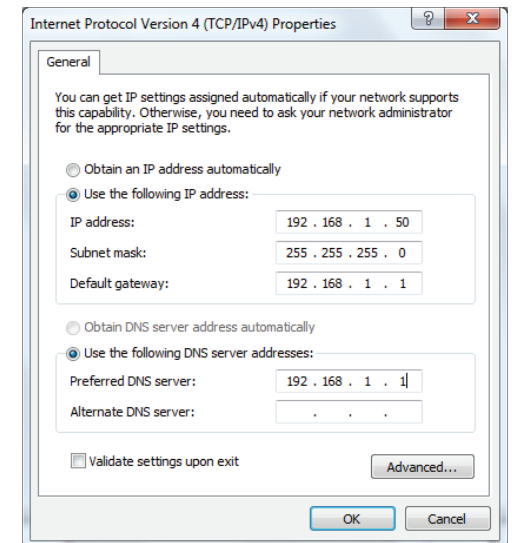
Step 3
Highlight **Internet Protocol Version 4 (TCP/IPv4)** and click **Properties.**

Step 4
Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

Example: If the router's LAN IP address is 192.168.0.1, make your IP address 192.168.1.X where X is a number between 2 and 99. Make sure that the number you choose is not in use on the network. Set the Default Gateway the same as the LAN IP address of your router (I.E. 192.168.0.1).

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

Step 5
Click **OK** twice to save your settings.



Wireless Security

This section will show you the different levels of security you can use to help protect your data from intruders. The DWR-978 offers the following types of security:

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

What is WPA?

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

The 2 major improvements over WEP:

- Improved data encryption through the Temporal Key Integrity Protocol (TKIP). TKIP scrambles the keys using a hashing algorithm and by adding an integrity-checking feature. WPA2 is based on 802.11i and uses Advanced Encryption Standard (AES) instead of TKIP.
- User authentication, which is generally missing in WEP, which is incorporated 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 stronger public-key encryption system so that only authorized network users should be able to access the network.

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

WPA/WPA2 incorporates user authentication through the Extensible Authentication Protocol (EAP). EAP is built on an even stronger key encryption system to make it much more difficult for unauthorized network users to access the network. EAP is often used in corporate or university environments.

Technical Specifications

General	
Device Interfaces	4 x 10/100/1000 Gigabit Ethernet LAN Ports, 1 x 10/100/1000 Mbps Gigabit Ethernet WAN port, 1 x USB 2.0 Port, 1 x LTE SIM/USIM Slot, 1 x Reset Button, 1 x WPS Button, 1 x Power Port
LED	Power, WAN, WLAN, Phone, LAN, 3G, 4G, LTE 5GNR
Antenna Type	2 x 2.4G WLAN Internal Antenna, 2 x 5G WLAN Internal Antenna, 2 x 2 LTE External Antenna, 2 x 2 LTE Internal Antenna
Wi-Fi Data Rate	2.4 GHz Up to 1732Mbps, 5 GHz Up to 800Mbps
Wireless IEEE Standard	IEEE 802.11 ac/n/g/b/k/v/r
Data Signal Rate	5G NR/LTE to GE LAN max data rate up to 900Mbps, 5G NR/LTE to 2.4G WLAN max data rate up to 500Mbps, 5G NR/LTE to 5Ghz WLAN max data rate up to 600Mbps, 2.4Ghz WLAN to GE LAN max up to 600Mbps, 5Ghz WLAN to GE LAN max up to 1Gbps
WAN Interface	DHCP, Static IP, PPPoE (PPPoE Pass-through), PPTP, L2TP, IPsec (VPN Pass-through), DS-Lite, Support Dual Access PPPoE, L2TP, PPTP for Russia, Support 802.1p & 802.1p VLAN tagging and Priority bit, Concurrent session: 32000
Functionality	
Security Protocol	WEP (128bits), 802.11i 128-bit TKIP/AES
Firewall	DoS , Stateful Packet Inspection , Anti-spoofing Checking, IP/MAC Address Filtering , DMZ
Mesh	D-Link EasyMesh
QoS	D-Link Intelligent QoS Technology
SpeedTest	Ookla SpeedTest
Software	
Device Management	Mobile app (iOS and Android), Web UI
Physical	
Hardware version	A1
Size	234.5 x 245 x 55.25 mm (9.23 x 9.64 x 2.18 in)
Weight	920 g (2.03 lbs)
Power Input	12 V 4 A
Operating Temperature	0 to 40 °C (32 to 104 °F)
Storage Temperature	-10 to 70 °C (14 to 158 °F)
Operating Humidity	10% to 90% non-condensing
Storage Humidity	5% to 95% non-condensing
Certifications	CE , FCC , PTCRB, EMC, Safety , RoHS

Bandwidth	
5G NR Sub6Ghz	n1, n2, n3, n5, n7, n8, n12, n20, n28, n41, n66, n71,n77,n78, n79
LTE Cat20 FDD	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B66, B71
LTE Cat20 TDD	B34, B38, B39, B40, B41, B42, B43, B46, B48
WCDMA	B1, B2, B3/9, B4, B5/6/19, B8

¹Mobile broadband speeds will vary and are dependent on a range of factors including network configuration, network capacity, signal strength, and the conditions of your mobile broadband subscription. ²Maximum wireless signal rate derived from IEEE Standard 802.11 specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, as well as network overhead, can lower actual data throughput rate. Environmental factors will adversely affect wireless signal range. ³Requires subscription with a mobile Internet service provider (not included).

Regulatory Information

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Non-modification Statement:

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

Caution:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

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

Note:

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

Important Notice:

FCC Radiation Exposure Statement

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

CE EMI Class B Warning

This equipment is compliant with Class B of CISPR 32. In a residential environment this equipment may cause radio interference.



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

European Community Declaration of Conformity:

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

Latviski [Latvian]	Ar šo uzņēmums D-Link Corporation apliecina, ka šis produkts, piederumi un programmatūra atbilst direktīvai 2014/53/ES. ES atbilstības deklarācijas pilno tekstu un produkta aparātprogrammatūru var lejupielādēt attiecīgā produkta lapā vietnē www.dlink.com .
Lietuvių [Lithuanian]	Šiuo dokumentu „D-Link Corporation“ pareiškia, kad šis gaminys, priedai ir programinė įranga atitinka direktyvą 2014/53/ES. Visą ES atitikties deklaracijos tekstą ir gaminio programinę aparatinę įrangą galima atsisiųsti iš gaminio puslapio adresu www.dlink.com .
Nederlands [Dutch]	Hierbij verklaart D-Link Corporation dat dit product, accessoires en software voldoen aan de richtlijnen 2014/53/EU. De volledige tekst van de EU conformiteitsverklaring en productfirmware is beschikbaar voor download van de productpagina op www.dlink.com .
Malti [Maltese]	Bil-preżenti, D-Link Corporation tiddikjara li dan il-prodott, l-aċċessorji, u s-software huma konformi mad-Direttiva 2014/53/UE. Tista' tniżżel it-test sħiħ tad-dikjarazzjoni ta' konformità tal-UE u l-firmware tal-prodott mill-paġna tal-prodott fuq www.dlink.com .
Magyar [Hungarian]	Ezennel a D-Link Corporation kijelenti, hogy a jelen termék, annak tartozékai és szoftvere megfelelnek a 2014/53/EU sz. 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.
- Access points will support DFS (Dynamic Frequency Selection) and TPC (Transmit Power Control) functionality as required when operating in 5 GHz band within the EU.
- Please refer to the product manual or datasheet to check whether your product uses 2.4 GHz and/or 5 GHz wireless.

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

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

Gebrauchshinweise:

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

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

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

Notes d'utilisation:

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

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

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

Notas de uso:

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

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

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

Note per l'uso

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

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

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

Gebruiksaanwijzingen:

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

SAFETY INSTRUCTIONS

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

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

SICHERHEITSVORSCHRIFTEN

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

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

CONSIGNES DE SÉCURITÉ

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

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

INSTRUCCIONES DE SEGURIDAD

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

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

ISTRUZIONI PER LA SICUREZZA

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

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

VEILIGHEIDSINFORMATIE

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

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

Disposing of and Recycling Your Product

ENGLISH

EN



This symbol on the product or packaging means that according to local laws and regulations this product should 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, odneste 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.